

WEDNESDAY, SEPTEMBER 5, 1973

WASHINGTON, D.C.

Volume 38 Number 171 Pages 23923-24184

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federal register



Published daily, Monday through Friday (no publication on Saturdays, Sundays, or on official Federal holidays), by the Office of the Federal Register, National Archives and Records Service, General Services Administration, Washington, D.C. 20408, under the Federal Register Act (49 Stat. 500, as amended; 44 U.S.C., Ch. 15) and the regulations of the Administrative Committee of the Federal Register (1 CFR Ch. I). Distribution is made only by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

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NOTE: There were no items published after October 1, 1972, that are eligible for inclusion in the list of RULES GOING INTO EFFECT TODAY.

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Weekly List of Public Laws

This is a listing of public bills enacted by Congress and approved by the President, together with the law number, the date of approval, and the U.S. Statutes citation. Subsequent lists will appear every Wednesday in the FEDERAL REGISTER, and copies of the laws may be obtained from the U.S. Government Printing Office.

Note: There were no laws signed by the President during the week.

Rules and Regulations

This section of the FEDERAL REGISTER contains regulatory documents having general applicability and legal effect most of which are keyed to and codified in the Code of Federal Regulations, which is published under 50 titles pursuant to 44 U.S.C. 1510.

The Code of Federal Regulations is sold by the Superintendent of Documents, Prices of new books are listed in the first FEDERAL REGISTER Issue of each month.

Title 6-Economic Stabilization

CHAPTER I—COST OF LIVING COUNCIL
PART 150—COST OF LIVING COUNCIL

PHASE IV PRICE REGULATIONS; EX-EMPTION OF CERTAIN POSTAL RATES

The purpose of this amendment is to exempt from the operation of the Phase IV price stabilization regulations those

second-, third-, and fourth class postal

rates for which phased increases have

been scheduled under section 3626 of title 39. United States Code.

On February 1, 1971, under the authority of the Postal Reorganization Act (Public Law 91-375), the Postal Service requested the Postal Rate Commission to submit to the Governors of the Postal Service a recommended decision on changes in rates of domestic postage and fees for domestic postal services (36 FR.

2431; 36 FR 2571).

On June 5, 1972, the Postal Rate Commission transmitted to the Governors of the Postal Service its Recommended Decision (Commission Docket No. R71-1) in which it recommended permanent rates and fees. On June 23, 1972, the Governors approved the permanent rates and fees recommended by the Postal Rate Commission and the Board of Governors determined the effective date thereof.

Among the permanent rates approved by the Governors were a series of phased increases in the reduced rates then existing for certain second-, third-, and

fourth class mail.

In accordance with the action of the Governors and the Board of Governors, the Postal Service placed the first round of phased increases in effect as of 12:01 a.m., July 6, 1972 (37 FR 13148). The second round of increases due to go into effect on July 6, 1973, did not go into effect because of the price freeze that existed between June 13 and August 12, 1973.

Under the Phase IV price regulations that went into effect on August 12, 1973, all increases in postal rates are subject to the prenotification requirements of Subpart H of Part 150 of those regulations.

In view of the extensive consideration already given to the economic justification for and the impact of the phased increases and the fact that a precise long-range schedule for their implementation was published over a year ago, the Council has determined the prenotification under the Phase IV price stabilization program should not be required and that these increases should be exempt from the operation of the price stabilization regulations,

Accordingly § 150.54(a) of title 6, Code of Federal Regulations is amended effective September 1, 1973, to read as follows:

§ 150.54 Certain price adjustments.

(a) Federal and State and local governments.-(1) Prices charged for any work, service, publication, report, document, benefit, privilege, authority, use, franchise, license, permit, certificate, registration, or similar thing of value or utility (including reduced postal rates for which phased increases are set forth in Part II of the Federal Register of July 1, 1972 (37 FR 13148-13150), but not including any other postal rates) performed, furnished, provided, granted, prepared, issued, or transferred by any Federal department, agency, or other instrumentality including any wholly owned Government corporations as defined in the Government Corporation Control Act of 1945, as amended (but not including the U.S. Postal Service and the Postal Rate Commission with respect to postal rates other than those reduced rates for which phased increases are provided under 39 U.S.C. 3626) are exempt.

(Economic Stabilization Act of 1970, as amended, Pub. L. 92-210, 85 Stat. 743; Pub. L. 93-28, 87 Stat. 27; E.O. 11695, 38 FR 1473; E.O. 11730, 38 FR 19345; Cost of Living Council Order No. 14; 38 FR 1489)

Issued in Washington, D.C., on August 30, 1973.

JOHN T. DUNLOP, Director, Cost of Living Council.

[FR Doc.73-18766 Filed 8-31-73;10:26 am]

Title 7-Agriculture

CHAPTER I—AGRICULTURAL MARKETING SERVICE (STANDARDS, INSPECTIONS, MARKETING PRACTICES), DEPART-MENT OF AGRICULTURE

PART 51—FRESH FRUITS, VEGETABLES AND OTHER PRODUCTS (INSPECTION, CERTIFICATION AND STANDARDS)

Standards for Grades of Fresh Tomatoes 1

On April 24, 1973, a notice of proposed rulemaking was published in the Federal Register (38 FR 10106) regarding the revision of United States Standards for Grades of Fresh Tomatoes (7 CFR 51.1855–51.1877). These grade standards are issued under authority of the Agri-

¹ Packing of the product in conformity with the requirements of these standards shall not excuse failure to comply with the provisions of the Federal Food, Drug and Cosmetic Act or with applicable State laws and regulations. cultural Marketing Act of 1946 (60 Stat. 1087, as amended; 7 U.S.C. 1621-1627), which provides for the issuance of official U.S. grades to designate different levels of quality for the voluntary use of producers, buyers and consumers. Official grading services are also provided under this act upon request of any financially interested party and upon payment of a fee to cover the cost of such services.

Statement of considerations leading to the revision of the grade standards.—The U.S. Standards for Grades of Fresh Tomatoes were last revised in December 1956. In October 1961 they were amended by adding a new color classification

section.

During 1970 the Florida Tomato Committee requested that size requirements in the standards be changed to correspond to the size classifications used in

the Florida marketing order.

In April 1971, a study draft to consider revision of the standards was prepared and distributed. In this study draft a new "vine ripe" definition was proposed but was not included in the formal proposal because certifying stage of maturity at harvest would be prohibitively expensive. Also included were size specifications based on Florida size require-

ments with no overlap.

At the request of the Western Growers Association, research size studies were conducted by the University of California at Davis and published in January 1973. In February, USDA's Agricultural Marketing Service representatives attended a meeting of producers and technical advisors to discuss results of these studies. Out of this meeting agreement was reached on diameter requirements with corresponding descriptive terms. These were approved by the Tomato Division of the United Fresh Fruit and Vegetable Association in a resolution adopted and transmitted to the Department requesting revision of the grade standards. Also published in the proposal was a new definition of "mature" to state specifically that the tomato must have reached a stage of development that would insure proper completion of the ripening process. The color classification section was revised to require that when color terms are used tomatoes must mature. An optional "Standard Weight" requirement was requested specifying that the amount of overfill in each container marked to designate net weight be restricted to 11/2 pounds.

Following publication of the proposal in the Federal Register copies were widely distributed to individuals and to groups and organizations of tomato growers, shippers, receivers, and consumers. Information concerning the pro-

RULES AND REGULATIONS

posal was carried in newspapers and trade publications.

The period for comments ended on June 30, 1973 and twelve letters of comment were received in response to the proposal. Most comments were from growers and shippers, or organizations representing them. Three letters were from consumers who were not interested in technical details of the standards, but were interested in being able to buy better quality and more uniformly sized tomatoes in retail stores.

Most of the views expressed by members of the fresh tomato industry specified the points in the proposal which were acceptable or those which were considered undesirable. There was unfavorable response concerning the proposal to limit the 1½ pound restriction on amount of overfill in each container marked to designate net weight and the 10 percent tolerance provided for containers failing to meet "Standard Weight" requirements. Grower and shipper groups recommended that a 2 pound restriction and 15 percent tolerance be provided which would more nearly reflect the new advances made in mechanical weighing and high speed machine filler equipment. The "Standard Weight" requirement is offered for optional use.

A major grower-shipper group strongly objected to implied mandatory replacement of the old numerical size designations by new size terms. Growers feel that optional use of numerical size designations should be maintained during the transition in order to facilitate orderly marketing of tomatoes. However, comments from grower, shipper and receiver groups favor the proposed diameter specifications set forth in the optional Size section.

November 1, 1973 and February 1, 1974 were recommended by industry groups as suitable effective dates. December 1, 1973 appears to offer a compromise which will not cause undue hardship in any producing area.

After consideration of all relevant matters presented by interested persons, the revision as so proposed is hereby adopted, subject to the following changes as set forth below.

These standards shall become effective on December 1, 1973, and will thereupon supersede the United States Standards for Fresh Tomatoes which have been in effect since June 28, 1957 (7 CFR 51.1855-51.1877).

Dated August 22, 1973.

E. L. PETERSON, Administrator Agricultural Marketing Service.

GRADES

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51.1856 U.S. Combination,

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51.1859 Size.

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Clean. 51.1867

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Damage. 51.1871

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51.1875 Misshapen.

Very serious damage. 51.1876

Classification of defects. 51.1877

AUTHORITY.-Secs. 203, 205, 60 Stat. 1087, as amended, 1090 as amended; 7 U.S.C. 1622,

GRADES

\$ 51.1855 U.S. No. 1.

"U.S. No. 1" consists of tomatoes which meet the following requirements:

(a) Basic requirements:

(1) Similar varietal characteristics;

(2) Mature:

(3) Not overripe or soft;

(4) Clean;

Well developed; (5)

(6) Fairly well formed; and,

(7) Fairly smooth.

(b) Free from:

(1) Decay;

(2) Freezing injury; and

(3) Sunscald.

Not damaged by any other cause. (c)

(d) For tolerances see § 51.1861.

§ 51.1856 U.S. Combination.

"U.S. Combination" consists of a combination of U.S. No. 1 and U.S. No. 2 tomatoes: Provided, That at least 60 percent, by count, meet the requirements of U.S. No. 1 grade.

(a) For tolerances see § 51.1861.

§ 51.1857 U.S. No. 2.

"U.S. No. 2" consists of tomatoes which meet the following requirements:

(a) Basic requirements:

(1) Similar varietal characteristics;

(2) Mature:

(3) Not overripe or soft;

(4) Clean;

(5) Well developed;

(6) Reasonably well formed; and,

(7) Not more than slightly rough.

(b) Free from:

(1) Decay;

(2) Freezing injury; and,

(3) Sunscald.

(c) Not seriously damaged by any other cause.

(d) For tolerances see § 51.1861,

§ 51.1858 U.S. No. 3.

"U.S. No. 3" consists of tomatoes which meet the following requirements:

(a) Basic requirements:

(1) Similar varietal characteristics;

(2) Mature;

(3) Not overripe or soft;

(4) Clean; (5) Well developed; and,

(6) May be misshapen.

Free from:

(1) Decay; and,

(2) Freezing injury.

(c) Not seriously damaged by:

(1) Sunscald.

(d) Not very seriously damaged by any other cause.

(e) For tolerances see § 51.1861.

SIZE

§ 51.1859 Size.

(a) The size of tomatoes packed in any type container, when specified according to the size designations set forth in Table I, shall be within the ranges of diameters specified for the respective designations.

(1) In determining compliance with the size designations the measurement for minimum diameter shall be the largest diameter of the tomato measured at right angles to a line from the stem end to the blossom end. The measurement for maximum diameter shall be the smallest dimension of the tomato determined by passing the tomato through a round opening in any position.

TABLE I

	Inches		Millimeters 1	
Size designations	Minimum diameter 2	Maximum diameter 2	Minimum diameter 2	Maximum diameter 3
Extra small or 7 × 8	1 28/32 2 4/32 2 9/32 2 17/32 2 28/32 3 15/32	2 4/32 2 9/32 2 17/32 2 25/32 3 15/32	45 54 58 64 73 88	54 58 64 73 88

¹ Conversion to metric equivalent made to nearest whole millimeter (mm).
² Will not pass through a round opening of the designated diameter when tomato is placed with the greatest transverse diameter across the opening.
³ Will pass through a round opening of the designated diameter in any position.

(b) In lieu of specifying size accord- second inch fractions thereof, or milliing to the above size designations, the size of tomatoes in any type container may be specified in terms of minimum diameter or of minimum and maximum diameters expressed in whole inches, whole inches and not less than thirty-

meters, in accordance with the facts.

(c) For tolerances see § 51.1861.

COLOR CLASSIFICATION

§ 51.1860 Color classification.

(a) The following terms may be used, when specified in connection with the grade statement, in describing the color as an indication of the stage of ripeness of any lot of mature tomatoes of a red fleshed variety:
(1) Green.—"Green" means that the

surface of the tomato is completely green in color. The shade of green color may

vary from light to dark;

(2) Breakers,-"Breakers" means that there is a definite break in color from green to tannish-yellow, pink or red on not more than 10 percent of the surface:

(3) Turning.-"Turning" means that more than 10 percent but not more than 30 percent of the surface, in the aggregate, shows a definite change in color from green to tannish-yellow, pink, red, or a combination thereof:

(4) Pink.—"Pink" means that more than 30 percent but not more than 60 percent of the surface, in the aggregate,

shows pink or red color:

(5) Light red.—"Light red" means that more than 60 percent of the surface, in the aggregate, shows pinkishred or red: Provided, That not more than 90 percent of the surface is red color; and.

(6) Red,—"Red" means that more 90 percent of the surface, in the aggre-

gate, shows red color.

(b) Any lot of tomatoes which does not meet the requirements of any of the above color designations may be designated as "Mixed Color".

(c) For tolerances see § 51.1861.

TOLERANCES

§ 51.1861 Tolerances.

In order to allow for variations incident to proper grading and handling in each of the foregoing grades, the following tolerances, by count, are provided as specified:

- (a) U.S. No. 1.—(1) For defects at shipping point."—Ten percent for tomatoes in any lot which fail to meet the requirements for this grade: Provided. That not more than one-half of this tolerance, or 5 percent, shall be allowed for defects causing very serious damage, including therein not more than 1 percent for tomatoes which are soft or affected by decay; and.
- (2) For defects en route or at destination.-Fifteen percent for tomatoes in any lot which fail to meet the requirements for this grade: Provided, That included in this amount not more than the following percentages shall be allowed for defects listed:
- (I) Five percent for tomatoes which are soft or affected by decay;
- (ii) Ten percent for tomatoes which are damaged by shoulder bruises or by discolored or sunken scars on any parts of the tomatoes; and,
- (iii) Ten percent for tomatoes which are otherwise defective: And provided further, That not more than 5 percent shall be allowed for tomatoes which are

very seriously damaged by any cause. exclusive of soft or decayed tomatoes.

(b) U.S. Combination .- (1) For defects at shipping point.'-Ten percent for tomatoes in any lot which fail to meet the requirements of the U.S. No. 2 grade: Provided, That not more than one-half of this tolerance, or 5 percent, shall be allowed for defects causing very serious damage, including 1 percent for tomatoes which are soft or affected by decay; and,

(2) For dejects en route or at destination.-Fifteen percent for tomatoes in any lot which fail to meet the requirements of the U.S. No. 2 grade: Provided. That included in this amount not more than the following percentages shall be

allowed for defects listed:

(i) Five percent for tomatoes which are soft or affected by decay;

(ii) Ten percent for tomatoes which are seriously damaged by shoulder bruises or by discolored or sunken scars on any parts of the tomatoes; and,
(iii) Ten percent for tomatoes which

are otherwise defective: And provided further, That not more than 5 percent shall be allowed for tomatoes which are very seriously damaged by any cause, exclusive of soft or decayed tomatoes.

(c) U.S. No. 2.—(1) For defects at shipping point."-Ten percent for tomatoes in any lot which fail to meet the requirements of this grade: Provided, That not more than one-half of this tolerance, or 5 percent, shall be allowed for defects causing very serious damage, including therein not more than 1 percent for tomatoes which are soft or affected by decay; and,

(2) For defects en route or at destination.-Fifteen percent for tomatoes in any lot which fail to meet the requirements for this grade: Provided, That included in this amount not more than the following percentages shall be allowed

for defects listed:

(i) Five percent for tomatoes which are soft or affected by decay;

(ii) Ten percent for tomatoes which are seriously damaged by shoulder

bruises or by discolored or sunken scars on any parts of the tomatoes; and,
(iii) Ten percent for tomatoes which

are otherwise defective: And provided further, That not more than 5 percent shall be allowed for tomatoes which are very seriously damaged by any cause, exclusive of soft or decayed tomatoes.

- (d) U.S. No. 3.—(1) For defects at shipping point.3—Ten percent for tomatoes in any lot which fail to meet the requirements of this grade: Provided, That not more than one-half of this tolerance, or 5 percent, shall be allowed for tomatoes which are very seriously damaged by insects and not more than one-tenth of the tolerance, or 1 percent, for tomatoes which are soft or affected by decay; and.
- (2) For defects en route or at destination.-Fifteen percent for tomatoes in any lot which fall to meet the requirements for this grade: Provided, That included in this amount not more than the following percentages shall be allowed for defects listed:
- (i) Five percent for tomatoes which are soft or affected by decay:

are very seriously damaged by shoulder bruises or by discolored or sunken scars on any parts of the tomatoes; and,

(iii) Ten percent for tomatoes which are otherwise defective: And provided further, That not more than 5 percent shall be allowed for tomatoes which are very seriously damaged by insects.

(e) For off size. Ten percent for to-

matoes in any lot which are smaller than the specified minimum diameter, or larger than the specified maximum

diameter.

(f) For off color. Ten percent for tomatoes in any lot which fail to meet the color specified, including therein not more than 5 percent for tomatoes which are green in color, when any term other than "Green" is specified.

APPLICATION OF TOLERANCES

§ 51.1862 Application of tolerances.

The contents of individual packages in the lot, based on sample inspection, are subject to the following limitations:

- (a) For packages which contain more than 5 pounds (2.27 kg), and a tolerance of 10 percent or more is provided, individual packages shall have not more than 11/2 times the tolerance specified, and for a tolerance of less than 10 percent individual packages shall have not more than double the tolerance specified, except that at least one defective and one off size specimen may be allowed in any package: Provided. That the averages for the entire lot are within the tolerances specified for the grade; and,
- (b) For packages which contain 5 pounds (2.27 kg) or less individual packages shall have not more than 4 times the tolerance specified, except that at least one tomato which is soft, or affected by decay, and one off-size specimen may be permitted in any package: Provided, That the averages for the entire lot are within the tolerances specifled for the grade.

§ 51.1863 Standard weight.

(a) When packages are marked to a net weight of 15 pounds (6.80 kg) or more, the net weight of the contents shall not be less than the designated net weight and shall not exceed the designated weight by more than 2 pounds (0.91 kg).

(b) In order to allow for variations incident to proper sizing, not more than 15 percent, by count, of the packages in any lot may fail to meet the require-

ments for standard weight.

DEFINITIONS

§ 51.1864 Similar varietal characteristics.

"Similar varietal characteristics" means that the tomatoes are alike as to firmness of flesh and shade of color (for example, soft-fleshed, early maturing varieties are not mixed with firmfleshed, midseason or late varieties, or bright red varieties mixed with varieties having a purplish tinge).

§ 51.1865 Mature.

"Mature" means that the tomato has reached the stage of development which will insure a proper completion of the (ii) Ten percent for tomatoes which ripening process, and that the contents

Shipping point, as used in these standards, means the point of origin of the shipment in producing area or at port of loading for ship stores or overseas shipment, or in the case of shipments from outside the continental United States, the port of entry into the United States.

of two or more seed cavities have developed a jelly-like consistency and the seeds are well developed.

§ 51.1866 Soft.

"Soft" means that the tomato yields readily to slight pressure.

§ 51.1867 Clean.

"Clean" means that the tomato is practically free from dirt or other foreign material.

§ 51.1868 Well developed.

"Well developed" means that the tomato shows normal growth. Tomatoes which are ridged and peaked at the stem end, contain dry tissue, and usually contain open spaces below the level of the stem scar, are not considered well developed.

§ 51.1869 Fairly well formed.

"Fairly well formed" means that the tomato is not more than moderately kidney-shaped, lop-sided, elongated, angular, or otherwise moderately deformed.

§ 51.1870 Fairly smooth.

"Fairly smooth" means that the tomato is not conspicuously ridged or rough.

§ 51.1871 Damage.

"Damage" means any specific defect described in § 51.1877, table II; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which materially detracts from the appearance, or the edible or marketing quality of the tomato.

§ 51.1872 Reasonably well formed.

"Reasonably well formed" means that the tomato is not decidedly kidneyshaped, lop-sided, elongated, angular, or otherwise decidedly deformed.

§ 51.1873 Slightly rough.

"Slightly rough" means that the tomato is not decidedly ridged or grooved.

§ 51.1874 Serious damage.

"Serious damage" means any specific defect described in § 51.1877, table II; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which seriously detracts from the appearance, or the edible or marketing quality of the tomato.

§ 51.1875 Misshapen.

"Misshapen" means that the tomato is decidedly kidney-shaped, lop-sided, elongated, angular or otherwise decidedly deformed: Provided, That the shape is not affected to an extent that the appearance or the edible quality of the tomato is very seriously affected.

§ 51.1876 Very serious damage.

"Very serious damage" means any specific defect described in § 51.1877, table II; or an equally objectionable variation of any one of these defects, any other defect, or any combination of defects, which very seriously detracts from the appearance, or the edible or marketing quality of the tomato.

§ 51.1877 Classification of defects.

TABLE II

BEFFERENCES TO AREA, AGGREGATE AREA, LENGTH OR AGGREGATE LENGTH ARE BASED ON A TOMATO HAVING A DIAMETER OF 23/2 INCHES (64 MM).

Factor	Damage	Serious damage	Very serious damage
Cuts and broken skins,	Not shallow or not well healed, or shallow, well healed cut more than 1/4 inch (13mm) in length, or other shallow, well healed skin breaks aggregating more than a circle 1/4 inch (10mm) in diameter.	Not shallow or not well healed, or shallow, well healed cut more than 1/6 inch (13mm) in length, or other shallow, well healed skin breaks aggregating more than a circle 1/2 inch (13mm) in diameter.	Fresh or healed and extends through the tomato wall.
Puffiness	Open space in 1 or more locules materially detracts from appearance of tomato cut through center at right angles to a line from stem to blossom end.	Open space in 1 or more locules seriously detracts from ap- pearance of tomato cut through center at right angles to a line from stem to blessom end.	Open space in 2 or more local very seriously detracts he appearance of tomato e through center at right and to a line from stem to blosse end.
Cathees	Scars are rough or deep, chan- nels are vary deep or wide, channels extend into a lec- ule, or a fairly smooth cat- face aggregating more than a circle 1/2 inch (13mm) in diameter.	Scars are rough or deep, chan- nels are vary deep or wide, channels extend into a loc- nic, or a fairly smooth cat- face aggregating more than a circle % inch (19mm) in diameter.	Channels extend into the is ule, wall has been weaken to the extent that slight pr sure will cause a tomato leak, or a fairly smooth a face aggregating more than circle 1 inch (25mm) diameter.
Scars (other than catfaces). Growth Cracks (radiating from or concentric to stem sear).	No depth and aggregating more than a circle ½ inch (10mm) in diameter. Not well healed, more than ½ inch (3 mm) in depth, indi- vidual radial cracks more than ½ inch (13 mm) in length, aggregate length of all radial cracks more than 1	No depth and aggregating more than a circle ½ inch (16mm) in diameter. Not well healed, more than ½ inch (3 mm) in depth, indi- vidual radial cracks more than ¾ inch (19 mm) in length, aggregate length of all radial cracks more than 1	No depth and aggregati more than a circle I in (25mm) in diameter. Not well healed, more than inch (6 mm) in depth, in vidual radial cracks m more than I inch (25 mm) langth, aggregate length all radial cracks more th
	inch (25 mm) measured from edge of stem scar. Any lot of tomatoes which are at least turning may have cracks which are not well healed provided they are not leak- ing.	inch (25 mm) measured from edge of stem sear, Any lot of tomatoes which are at least turning may have cracks which are not well bealed provided they are not leak- ing.	2% inches (73 mm) means from edge of stem sor. A lot of formatoes which are least turning may he cracks which are not wheated provided they are leaking, not more than inch (3 mm) in depth, dividual radial cracks are more than 34 inch (19 mm) length.
Hall	Deep, rough, not well healed and corked over, or fairly smooth, shallow hallmarks aggregating more than a circle 3½ inch (10 mm) in dismeter.	Deep, rough, not well healed and corked over, or fairly amooth, shallow hallmarks aggregating more than a circle 3% inch (16 mm) in diameter.	Fresh, very deep or fai smooth, shallow hall ma aggregating more than circle I inch (25 mm) diameter.
Insect injury	Materially detracts from the appearance or any insect is present in the fruit.	Seriously detracts from the appearance or any insect is present in the fruit.	Very seriously detracts fro the appearance or any ins is present in the fruit.

[FR Doc.73-18558 Filed 9-4-73;8:45 am]

CHAPTER III—ANIMAL AND PLANT HEALTH INSPECTION SERVICE, DE-PARTMENT OF AGRICULTURE

PART 354—OVERTIME SERVICES RELATING TO IMPORTS AND EXPORTS

Commuted Traveltime Allowances

The purpose of this amendment is to establish commuted traveltime periods as nearly as may be practicable to cover the time necessarily spent in reporting to and returning from the place at which an employee of the Plant Protection and Quarantine Programs performs overtime or holiday duty when such travel is performed solely on account of such overtime or holiday duty. Such establishment depends upon facts within the knowledge of the Animal and Plant Health Inspection Service.

Therefore, pursuant to the authority conferred upon the Deputy Administrator, Plant Protection and Quarantine Programs, by 7 CFR 354.1 of the regulations concerning overtime services relating to imports and exports, the administrative instructions appearing at 7 CFR 354.2, as amended, February 28, 1973 (38 FR 5340), April 9, 1973 (38 FR 9006), July 30, 1973 (38 FR 20233), and

August 21, 1973 (38 FR 22466), prescribing the commuted traveltime that shall be included in each period of overtime or holiday duty are further amended by adding (in appropriate alphabetical sequence) or deleting the information as shown below:

§ 354.2 Administrative instructions prescribing commuted traveltime.

COMMUTED TRAVELTIME ALLOWANCES (In hours)

The state of the s	Served	Metrop	Metropolitan area		
Location covered	from	Within	Outside		
Delete:					
Georgia: Savannah		. 1			
Add:					
A CONTRACTOR OF THE PARTY OF TH					
Georgia: Savannah		. 3	1		
Texas: Point Comfort					

(64 Stat. 561; 7 U.S.C. 2260.)

Effective date.—The foregoing amendment shall become effective on September 5, 1973.

It is to the benefit of the public that this instruction be made effective at the earliest practicable date. Accordingly, pursuant to 5 U.S.C. 553, it is found upon good cause that notice and public procedure on this instruction are impracticable, unnecessary, and contrary to the public interest, and good cause is found for making it effective less than 30 days after publication in the Federal Register.

Done at Washington, D.C., this 29th day of August 1973.

LEO G. K. IVERSON, Deputy Administrator, Plant Protection and Quarantine Programs.

[FR Doc.73-18670 Filed 9-4-73;8:45 am]

CHAPTER VII—AGRICULTURAL STABILIZATION AND CONSERVATION SERVICE
SUBCHAPTER B—FARM MARKETING QUOTAS AND ACREAGE ALLOTMENTS

PART 725-FLUE-CURED TOBACCO

Subpart—Proclamations, Determinations, and Announcements of National Marketing Quotas and Referendum Results

Marketing Quota Referendum Results

Basis and purpose.-Section 725.3 is revised pursuant to and in accordance with the Agricultural Adjustment Act of 1938, as amended, to proclaim the results of the flue-cured tobacco marketing quota referendum for the three marketing years beginning July 1, 1974. The Secretary proclaimed national marketing quotas for flue-cured tobacco for the 1974-75, 1975-76, and 1976-77 marketing years, and announced the amount of the national marketing quota for the 1974-75 marketing year (38 FR 18233). The Secretary announced (38 FR 18254) that a referendum would be held on July 17, 1973, to determine whether flue-cured tobacco producers were in favor of or opposed to marketing quotas for the three marketing years beginning July 1, 1974. Since the only purpose of this proclamation is to announce the results of the referendum, it is hereby found and determined that with respect to this proclamation, application of the notice, public procedure and effective date provisions of 5 U.S.C. 553 is unnecessary.

Section 725.3 is revised to read as follows and § 725.4 is deleted, except that the material previously appearing in these sections remain in full force and effect as to the crops to which it was applicable.

plicable:

§ 725.3 Results of the flue-cured tobacco marketing quota referendum for the three-year period beginning July 1, 1974.

In a referendum of farmers engaged in the production of the 1973 crop of flue-cured tobacco held on July 17, 1973, 100,466 farmers voted. Of those voting, 99,004 or 98.5 percent favored quotas for a period of three years beginning July 1, 1974, and 1,462 or 1.5 percent were opposed to quotas. Therefore, the national marketing quota of 1,179 million pounds for flue-cured tobacco proclaimed (38 FR 18233) for the 1974-75 marketing year

will be in effect for such year, and marketing quotas on such kind of tobacco will be in effect for the three marketing years beginning July 1, 1974.

§ 725.4 [Deleted].

(Secs. 312, 317, 375; 52 Stat. 46, as amended, 79 Stat. 66, 52 Stat. 66, as amended; 7 U.S.C. 1312, 1314c, 1375.)

Signed at Washington, D.C., on August 28, 1973.

GLENN A. WEIR, Acting Administrator, Agricultural Stabilization and Conservation Service.

[FR Doc.73-18709 Filed 9-4-73;8:45 am]

CHAPTER XIV—COMMODITY CREDIT CORPORATION, DEPARTMENT OF AGRICULTURE

SUBCHAPTER B-LOANS, PURCHASES, AND OTHER OPERATIONS

[CCC Grain Price Support Regulations, 1973 Crop Corn Supplement]

PART 1421—GRAINS AND SIMILARLY HANDLED COMMODITIES

Subpart—1973 Crop Loan and Purchase Program

On October 7, 1972, notice of proposed rulemaking regarding loan and purchase rates for 1973 crop corn and detailed operating provisions to carry out the 1973 crop corn loan and purchase program was published in the Federal Register (37 FR 21332). No data, views, or recommendations were filed by interested persons.

The General Regulations Governing Price Support for the 1970 and Subsequent Crops, published in the Federal Register at 35 FR 7363 and 7781, and any amendments thereto, and the 1970 and Subsequent Crops Corn Loan and Purchase Program Regulations, published in the Federal Register at 35 FR 13969, and any amendments to such regulations, are further supplemented for the 1973 crop of corn.

The material previously appearing in these §§ 1421.111 through 1421.116 shall remain in full force and effect as to the crops to which it is applicable.

Sec.

1421.111 Availability.

1421.112 Compliance rquirements.

1421.113 Warehouse charges.

1421.114 Maturity of loans. 1421.115 Delivery period.

1421.116 Loan and purchase rates, premiums, and discounts.

AUTHORITY: Sec. 4, 62 Stat. 1070, as amended (15 U.S.C. 714b). Interpret or apply sec. 5, 62 Stat. 1072, secs. 105, 401, 63 Stat. 1051, as amended (15 U.S.C. 714c, 7 U.S.C. 1421, 1441).

§ 1421.111 Availability.

A producer desiring to participate in the program through loans must request a loan on his 1973 crop of eligible corn on or before June 30, 1974. To sell eligible corn to CCC, a producer must execute and deliver to the appropriate county ASCS office, on or before July 31, 1974, a purchase agreement (Form CCC-614) indicating the approximate quantity of 1973 crop corn he may sell to CCC. Provided, That in any area where it is de-

termined by the State ASC committee that producers may not be able to or cannot store corn safely on the farm for the full storage period because of insects, adverse climatic conditions, or other factors affecting the safe storage of corn, the final date for requesting loans and purchases on farm stored corn shall be such earlier dates as are established by the State ASC committee. Public announcement of the final dates shall be made sufficiently in advance of such dates to allow producers a reasonable period of time to request loans and purchases.

§ 1421.112 Compliance requirements.

A producer shall be eligible for a loan or purchase with respect to the corn being tendered if the producer complies with the 1973 set-aside program appearing in regulations published in Part 775 of this title pertaining to Feed Grain Set-Aside Program for crop years 1971-73, and any amendments thereto, on the farm on which such corn was produced.

§ 1421.113 Warehouse charges.

Subject to the provisions of § 1421.96, the schedule of deductions set forth in this section shall apply to corn stored in an approved warehouse operating under the Uniform Grain Storage Agreement.

SCHEDULE OF DEDUCTIONS FOR STORAGE CHARGES FOR MATURITY DATE OF JULY 31, 1974

> Deduction (cents per bushel)

Storage start date: 1 bus	(cl)
Prior to Aug. 3, 1973	15
Aug. 3 to Aug. 27	14
Aug. 28 to Sept. 21	13
Sept. 22 to Oct. 16	12
Oct, 17 to Nov. 10	11
Nov. 11 to Dec. 5	10
Dec. 6 to Dec. 30	
Dec. 31, 1973 to Jan. 24, 1974	8
Jan. 25 to Feb. 18	7
Feb. 19 to Mar. 15	6
Mar. 16 to Apr. 9	. 5
Apr. 10 to May 4	
May 5 to May 29	3
May 30 to June 23	2
June 24 to July 31, 1974	1

1 All dates inclusive.

§ 1421.114 Maturity of loans.

Loans matre on demand but not later than July 31, 1974.

§ 1421.115 Delivery period.

(a) Regular delivery period.—The regular delivery period shall begin August 1, 1974.

(b) Where producer may not be in a position to store corn safely.- In areas where it is determined by the State ASC committee that some producers may not be in a position to store corn safely on the farm for the full storage period (for reasons set forth in § 1421.111), the State ASC committee may establish an earlier delivery period prior to maturity (in addition to the regular delivery period) during which any producer in such areas may voluntarily deliver corn which is under farm storage loan. Eligible corn not under loan may also be delivered to CCC for purchase in the earlier delivery period. Such earlier delivery period, if

\$1,22 1.14

12

23

Rate per

\$1.57

Jennings

Kosciusko

LaGrange

Knox

Johnson ----

established, shall begin at least 30 days after the final date of availability of loans established by the State ASC committee, but not before April 1, 1974, CCC will accept deliveries of corn during such early delivery period, provided the producer notifies the county ASCS office within the time specified by the county ASCS office that he wants to deliver the corn.

(c) Where producers cannot store corn safely.-If the State ASC committee determines that producers in an area cannot store corn safely on the farm for the full storage period (for reasons set forth in §1421.111), all farm storage loans in such area shall be called. Producers having eligible corn not under loan who elect to make deliveries from farm storage for purchase by CCC shall also be required to deliver during the delivery period for loans except that individual producers may keep corn in farm storage until the regular loan maturity date if (1) such corn is shelled, (2) the producer has satisfactory storage facilities, and (3) either the State ASC committee approves or the county ASC committee approves where the State ASC committee has authorized county ASC committee to make such determinations. Any earlier delivery period established shall begin at least 30 days after the final date of availability of loans established by the State ASC committee and not before April 1, 1974.

§ 1421.116 Loan and purchase rates, premiums, and discounts.

County basic loan and purchase rates for corn and the schedule of premiums and discounts are contained in this section. Farm stored loans will be made at the basic rate for the county where the corn is stored, adjusted only for the weed control discount where applicable. The rate for warehouse stored corn loans shall be the basic rate for the county where the corn is stored, adjusted by the premiums and discounts prescribed in paragraphs (b) and (c) of this section. Notwithstanding § 1421.23(c), settlement for corn delivered from other than approved warehouse storage shall be based on the basic rate for the county in which the producer's customary delivery point is located, and on the quality and quantity of the corn delivered as shown on the warehouse receipts and accompanying documents issued by an approved warehouse to which delivery is made, or if applicable, the quality and quantity delivered as shown on a form prescribed by CCC for this purpose.

(a) Basic county rates.—Basic county rates for corn grading No. 2 and containing from 15.1 through 15.5 percent mois-

ture are as Iol	lows:	Rate per
County	ALABAMA	bushel
All Counties		81.20
	ARIZONA	
All Counties		1.26
	ARKANSAS	
All Counties		1.17
and the same of the same	CALIFORNIA	1 00
All Counties		1.20

	Rate per	R	ate per
County		County	bushel
Adams		La Plata	\$1,22
Alamosa	1.18	Larimer	
Arapahoe	1.15	Las Animas	. 1, 15
Archuleta -	1.20	Lincoln	
Baca	1.11	Logan	
Bent	1.14	Mesa	
Boulder	1.14	Moffat	
	The second secon		2 01

Boulder	1, 14	Moffat	1.23
Cheyenne	1.10	Montezuma	1. 25
Conejos	1.18	Montrose	1.23
Costilla	1.18	Morgan	1, 14
Crowley	1.14	Otero	1, 16
Custer	1.17	Ouray	1.25
Delta	1.23	Phillips	1, 10
Dolores	1.25	Pitkin	1. 21
Douglas	1.16	Prowers	1.10
Eagle	1.21	Pueblo	1.16
Elbert	1, 15	Rio Bianco	1.23
El Paso	1.16	Rio Grande	1.21
Fremont	1.17	Routt	1, 20
Garfield	1.23	Saguache	1.19
Grand	1.17	San Miguel	1.25
Huerfano	1.17	Sedgwick	1, 10
Jefferson	1, 16	Washington -	1. 12
Ktown	1.10	Weld	1.14
Kit Carson	1, 10	Yuma	1.09

III	counties		_ \$1.29
		DELAWARE	
		PLORIDA	
		GEORGIA	
MI	counties	Hawaii	- \$1.21

CONNECTICUT

TOATEO 81.23 All counties. ILLINOIS

countles

. A	care per	-45	are her
County	bushel	County	bushel
Adams	81.08	Jefferson	
Alexander	_ 1.12	Jersey	1.10
Bond	_ 1.10	Jo Daviess	1.06
Boone	_ 1.08	Johnson	
Brown	1.09	Kane	
Bureau	_ 1.08	Kankakee	1,08
Calhoun	_ 1.09	Kendall	
Carroll	1.06	Knox	1.09
Cass	_ 1.10	Lake	1.10
Champaign -	1.07	La Salle	
Christian	_ 1.09	Lawrence	
Clark	1.08	Lee	
Clay	_ 1.09	Livingston	
Clinton	1.10	Logan	
Coles	_ 1.07	McDonough .	
Cook	1.11	McHenry	
Crawford	1.09	McLean	
Cumberland	_ 1.08	Macon	
De Kalb	1.09	Macoupin	
De Witt	_ 1.08	Madison	
Douglas	1.07	Marion	
Du Page	1.10	Marshall	
Edgar	1.07	Mason	
Edwards	1.11	Massac	
Effingham -	1.09	Menard	
Fayette		Mercer	
Ford	1.07	Monroe	
Franklin		Montgomery	
Fulton		Morgan	
Gallatin		Moultrie	The state of the s
Greene		Ogle	
Grundy		Peoria	
Transaction of the State of the		Mary Control of the C	

	ILLINOIS-	Continued	
County	Rate per bushel	County	Rate per bushel
Rock Islan	d \$1.06	Vermillion	81.07
St. Clair	1.11	Wabash	1,11
Saline	1.11	Warren	1.08
Sangamon	1.09	Washington	_ 1.11
Schuyler -		Wayne	
Scott		White	1.11
Shelby	1.08	Whiteside	1.07
Stark		Will	1.10
Stephenson	1 _ 1.07	Williamson	1.11
Tazewell		Winnebago	1.07
Union	1.11	Woodford -	1.09
	IND	IANA	
Adams	81.07	Lawrence	81.11
Allen		Madison	1,05
Bartholo-		Marion -	1.06
me:7	1.09	Marshall .	1.08
Benton	1.07	Martin	1.11
Blackford	1.07	Miami	1.07
Boone	1.05	Monroe	1.00
Brown	1.09	Montgomery	_ 1.06
Carroll	1.06	Morgan	1.07
Cass	1.07	Newton	1.08
Clark	1.12	Nobel	1.07
Clay	1.07	Ohio	1, 12
Clinton -		Orange	1.11
Crawford	1.12	Owen	I.07
Davless -	1.11	Parke	1.06

Clark	1.12	Nobel	1.07
Clay	1.07	Ohio	1, 12
Clinton	1.05	Orange	1.11
Crawford	1.12	Owen	1,07
Davless	1.11	Parke	1.06
Dearborn	1.12	Perry	1.12
Decatur	1.09	Pike	1.11
De Kalb	1.07	Porter	1.09
Delaware	1.06	Posey	1.12
Dubols	1.11	Pulaski	1.08
Elkhart	1.08	Putnam	1,06
Fayette	1.08	Randolph	1.07
Floyd	1.12	Ripley	1.11
Fountain	1.06	Rush	1.07
Franklin	1.11	St. Joseph	1.08
Fulton	1.08	Scott	1.12
Gibson	1,12	Shelby	1.07
Grant	1.06	Spencer	1, 12
Greene	1.09	Starke	1.08
Hamilton	1.05	Steuben	1.07
Harrison	1, 12	Sullivan	1.09
Hancock	1.06	Switzerland -	1, 12
Hendricks	1.08	Tippecance	1.06
Henry	1.06	Tipton	1.05
Howard	1.06	Union	1,09
Huntington -	1.07	Vander-	
Jackson	1.11	burgh	1.12
Jasper	1.08	Vermillion	1.06
Jay	1.07	Vigo	1.07

Lake	1.09	White	
La Porte	1.09	Whitiey	1.07
	Iov		
	101		
Adair	81.04	Dallas	\$1,03
Adams		Davis	1.05
Allamakee	1.03	Decatur	
Appanoose	1.05	Delaware	1.04
Audubon	1.04	Des Moines	1.06
Benton	1.04	Dickinson	1,00
Black Hawk	1.02	Dubuque	1.05
Boone	1.02	Emmet	1.00
Bremer	1.02	Fayette	1.03
Buchanan	1.03	Floyd	1.00
Buena Vista	1.01	Franklin	
Butler	1.01	Fremont	
Calhoun		Greene	4. 00
Carroll		Grundy	
Cass		Guthrie	
Coden		Hamilton *	

1, 11

1.07

1.11

1.08

Wabash

Warren

Warrick

Wayne

Washington -

1.05

1.12

12

07

Perry

Piatt

Pike

Pope

Pulaski

Putnam ----Randolph ---

Richland ----

1.11

1,07

1.07

1.07

1.08

1, 11

1.09

Hamilton ----

Hancock ----

Henderson ---

Iroquois ----

Jackson -----

Jasper _____

Hardin -

Henry

Iowa-(Continued	KENTUCKY MICHIGAN—Continued		-Continued	
Rate per	Rate per	Rate per	Rate per	Rate per	Rate per
County bushel	County bushel	County bushel	County bushel	County bushel	County bushel
Jackson \$1.06 Jasper 1.03	Plymouth \$1.03 Pocahontas 1.01	Adair \$1.18	Knox \$1.20	Iosco \$1.11	Oakland \$1.10
Jefferson 1.05	Polk 1.03	Allen 1.18 Anderson 1.17	Larue 1.16	Isabella 1.09 Jackson 1.09	Oceana 1.11 Ogemaw 1.11
Johnson 1.05	Pottawattamie 1.05	Ballard 1.14	Laurel 1.20 Lawrence 1.19	Kalamazoo 1.09	Osceola 1.10
Jones 1.05 Keokuk 1.04	Poweshiek 1.03 Ringgold 1.05	Barren 1.17	Lee 1.20	Kent 1.09	Ottawa 1.11
Kossuth 1.00	Sac 1.02	Bath 1.19	Leslie 1.21	Lake 1.11	Roscommon _ 1.11
Lee 1.06	Scott 1.06	Bell 1.21 Boone 1.13	Letcher 1.21 Lewis 1.15	Lenawee 1.10	Saginaw 1.09 St. Clair 1.10
Linn 1.04 Louisa 1.06	Shelby 1.04	Bourbon 1.18	Lincoln 1.19	Livingston 1.10	St. Joseph 1.08
Lucas 1.04	Story 1.02	Boyd 1.17	Livingston 1.14	Macomb 1.10	Sanilac 1. 10
Lyon 1.01	Tama 1.03	Boyle 1.18 Bracken 1.15	Logan 1.17 Lyon 1.16	Manistee 1.11 Mason 1.11	Shiawassee 1.09 Tuscola 1.09
Madison 1.03 Mahaska 1.03	Taylor 1.05	Breathitt 1.21	McCracken 1.14	Mecosta 1.10	Van Buren 1.09
Marion 1, 03	Union 1.04 Van Buren 1.05	Breckinridge_ 1.14	McCreary 1.19	Midland 1.09	Washtenaw 1.10
Marshall 1.02	Wapello 1.04	Bullitt 1.15 Butler 1.16	McLean 1.15	Missaukee 1.11 Monroe 1.10	Wayne 1.10 Wexford 1.11
Mills 1.03	Warren 1.03	Caldwell 1.16	Madison 1.19 Magoffin 1.21	Montcalm 1.09	Wexford 1, 11 All other coun-
Mitchell 1.00 Monona 1.04	Washington _ 1.05 Wayne 1.05	Calloway 1.15	Marion 1.17	Muskegon 1.11	ties 1.12
Monroe 1.04	Webster 1.01	Campbell 1.13	Marshall 1.15	Newaygo 1.10	
Montgomery _ 1.05	Winnebago 1.00	Carlisle 1.14	Martin 1.20 Mason 1.15	MINN	VESOTA
Muscatine 1.06 O'Brien 1.01	Winneshiek _ 1.02	Carter 1.18	Meade 1.14	Aitkin \$1.03	Marshall \$1.00
Osceola 1.00	Woodbury 1.03 Worth 1.00	Casey 1.18	Menifee 1.19	Anoka 1.03	Martin98
Page 1.05	Wright 1.00	Clark 1.17	Mercer 1.18	Becker 1.01	Meeker 1.01
Palo Alto 1.00		Clay 1.20	Metcalfe 1.18 Monroe 1.18	Beltrami 1.00 Benton 1.02	Mille Lacs 1.03
KA	NSAS	Clinton 1.19	Montgomery _ 1.19	Big Stone98	Morrison 1.02 Mower 1.01
Allen \$1.13	Linn \$1.13	Crittenden 1.14	Morgan 1.20	Blue Earth 99	Murray 98
Anderson 1, 12	Logan 1.07	Cumberland _ 1.18 Daviess 1.14	Muhlenburg _ 1.16	Brown99	Nicollet 1.00
Atchison 1.09	Lyon 1.10	Edmonson 1.16	Nelson 1.16 Nicholas 1.18	Carlton 1.03	Nobles 98 Norman 1.00
Barton 1.12	McPerson 1.09	Elliott 1.19	Ohio 1.15	Cass 1.01	Olmsted 1.02
Bourbon 1.13	Marion 1.09 Marshall 1.06	Estill 1.19	Oldham 1.14	Chippews99	Otter Tail 1.01
Brown 1.07	Meade 1.09	Fleming 1.18	Owen 1.15	Chisago 1.03	Pennington 1.00
Butler 1.12	Miami 1.12	Floyd 1.21	Owsley 1.20 Pendleton 1.15	Clay 1.00 Clearwater 1.00	Pine 1.03 Pipestone 98
Chase 1.10 Chautauqua _ 1.15	Mitchell 1.07 Montgomery _ 1.15	Franklin 1.16	Perry 1.21	Cook 1.03	Polk 1.00
Cherokee 1.15	Morris 1.09	Fulton 1.14	Pike 1.21	Cottonwood98	Pope 1.01
Cheyenne 1.07	Morton 1.09	Gallatin 1, 14 Garrard 1, 19	Powell 1. 19 Pulaski 1. 19	Crow Wing 1.02 Dakota 1.04	Ramsey 1.03
Clark 1.09 Clay 1.06	Nemaha 1.07	Grant 1.15	Robertson 1.17	Dakota 1.04 Dodge 1.01	Red Lake 1.00 Redwood 99
Cloud 1.06	Neosho 1.14 Ness 1.08	Graves 1.14	Rockcastle 1.19	Douglas 1.02	Renville 1.00
Coffey 1. 12	Norton 1.05	Grayson 1.15	Rowan 1.19	Faribault98	Rice 1.02
Comanche 1.10	Osage 1.10	Greenup 1.18	Russell 1.19 Scott 1.17	Fillmore 1.02 Freeborn99	Rock99
Cowley 1.14 Crawford 1.15	Osborne 1.07	Hancock 1.14	Shelby 1, 15	Goodhue 1.04	Roseau 1.00 St. Louis 1.03
Decator 1.06	Otawa 1.07 Pawnee 1.09	Hardin 1.15	Simpson 1.18	Grant 1.01	Scott 1.02
Dickinson 1.08	Phillips 1.05	Harlan 1.21	Spencer 1.15	Hennepin 1.03	Sherburne 1.02
Doniphan 1.08	Pottawatomie_ 1.07	Harrison 1.17	Taylor 1.17	Houston 1.04 Hubbard 1.01	Sibley 1.01 Stearns 1.02
Douglas 1.10 Edwards 1.09	Pratt 1.11	Henderson 1.14	Trigg 1.17	Isanti 1.03	Steele 1.00
Elk 1.14	Rawlins 1.07 Reno 1.11	Henry 1.15	Trimble 1.14	Itasca 1.03	Stevens 1.00
Ellis 1.14	Republic 1.05	Hickman 1.14	Union 1.14	Jackson98	Swift 1.00
Ellsworth 1.09	Rice 1.10	Hopkins 1.16 Jackson 1.20	Warren 1.17 Washington _ 1.17	Kanabec 1.03 Kandiyohi 1.00	Todd 1.02
Finney 1.08 Ford 1.08	Riley 1.06 Rooks 1.06	Jefferson 1.14	Wayne 1.19	Kittson 1.00	Wabasha 1.04
Franklin 1.11	Rush 1.08	Jessamine 1.19	Webster 1.15	Koochiching _ 1.03	Wadena 1.02
Geary 1.08	Russel 1.08	Johnson 1.20 Kenton 1.13	Whitley 1.20 Wolfe 1.20	Lac Qui Parle98 Lake 1.03	Washington 1.03
Gove 1.07 Graham 1.06	Saline 1.08	Knott 1,21	Woodford 1.18	Lake of the	Washington _ 1.03 Watonwan98
Grant 1.08	Scott 1.08 Sedgwick 1.12	Loui	3377	Woods 1.00	Wilkin 1.00
Gray 1.08	Seward 1.09		***** \$1. 19	Le Sueur 1.01	Winona 1.04
Greeley 1.08	Shawnee 1.09		4	Lincoln	Wright 1.02 Yellow Medi-
Hamilton 1.12	Sheridan 1.06	All counties	INE 81 20	McLeod 1.01	cine98
Harper 1.13	Sherman 1.08 Smith 1.05	The state of the s		Mahnomen 1.00	
Harvey 1.11	Stafford 1.11	All counties Mary		Missi	SSTPPT
Haskell 1.08	Stanton 1.08	All counties			
Hodgeman 1.08 Jackson 1.08	Stevens 1.09 Sumner 1.13	MASSACI		All counties	\$1. 19
Jefferson 1.09	Thomas 1.08	All countles	*1.29	Miss	OURI
Jewell 1.05	Trego 1.07	Місн	IGAN	Adair \$1.06	Butler 81, 14
Johnson 1.11	Wabaunsee 1.09	Allegan \$1.09	Clinton \$1.09	Andrew 1.08	Caldwell 1.09
Kearny 1.08	Wallace 1.07	Arenac 1.11	Eaton 1.09	Atchison 1.07	Callaway 1.11
Kingham 1.12	Washington _ 1.06	Barry 1.08	Genesee 1.10	Audrain 1.10 Barry 1.16	Camden 1.13
Klown 1.10	Wichita 1.08	Bay 1.10	Gladwin 1.10	Barton 1.14	deau 1.13
Labette 1.15	Wilson 1. 14	Branch 1.09	Gratiot 1.09 Hillsdale 1.08	Bates 1.12	Carroll 1.08
Leavenworth 1.10	Woodson 1.13	Calhoun 1.08	Huron 1.10	Benton 1.12	Carter 1. 15
Lincoln 1.08	Wyandotte 1.10	Cass 1.09	Ingham 1.09	Bollinger 1.14 Boone 1.11	Cass 1.11 Cedar 1.14
1.08		Clare 1.10	Ionia 1.09	Buchanan 1.10	Chariton 1.08

Missouri-	Continued	NEBRASKA-	Continued	OKLA	нома
	Rate per	Rate per	Rate per	Rate per	Rate per
County bushel	County bushel	County bushel	County bushel	County bushel	County bushel
	Monroe 81.09	Nuckolls 81.04	Seward \$1.04	Beaver \$1.12	Harper \$1.13
Christian \$1.16		Otoe 1.05	Sheridan 1.08	Beckham 1.15	Roger Mills 1.15
Clark 1.07 Clay 1.11	Montgomery _ 1, 11 Morgan 1, 12	Pawnee 1.06	Sherman 1.04	Cimmarron 1.12	Texas 1.12
Clinton 1.11	New Madrid 1.14	Perkins 1.07	Sioux 1.10	Ellis 1.15	All other
Cole 1.12	Newton 1.16	Phelps 1.04	Stanton 1.05	Harmon 1.15	countles 1.17
Cooper 1.11	Nodaway 1.07	Pierce 1.04	Thayer 1.04	ORE	COM
Crawford 1.14	Oregon 1.16	Platte 1.05	Thomas 1.06	ORE	OUA
Dade 1.14	Osage 1.12	Polk 1.05	Thurston 1.05	PENNS	TLVANIA
Dallas 1,15	Ozark 1.16	Red Willow 1.06	Valley 1.04	All countles	81, 24
Daviess 1.08	Pemiscot 1.14	Richardson 1.06	Washington _ 1.06		
De Kalb 1.09	Perry 1.13	Rock 1.04	Wayne 1.04 Webster 1.04		ISLAND
Dent 1.15	Pettis 1.11	Saline 1.04 Sarpy 1.05	Wheeler 1.05	All counties	
Douglas 1.16	Phelps 1.15	Saunders 1.05	York 1.04		CAROLINA
Dunklin 1.14	Pike 1.09	Scotts Bluff 1.10	TANKS THE PROPERTY AND A	All counties	
Franklin 1.12 Gasconade 1.12	Platte 1.11 Polk 1.15		120	SOUTH	DAKOTA
Gentry 1.07	Pulaski 1.15	NEV	ADA		
Greene 1.15	Putnam 1.05	All Counties	81.27	Aurora \$0.98	Jackson \$1.03
Grundy 1.06	Ralls 1.09	New Han		Beadle97	Jerauld97
Harrison 1.05	Randolph 1.08		THE RESERVE OF THE PARTY OF THE	Bennett 1.04	Jones 1.02
Henry 1.12	Ray 1.10	All Counties	\$1.29	Bon Homme 1.00 Brookings97	Kingsbury97 Lake98
Hickory 1.13	Reynolds 1.15	New J	FRSEY	Brown 97	Lawrence 1.04
Holt 1.08	Ripley 1.15		27600	Brule 98	Lincoln 1,01
Howard 1.10	St. Charles 1.11	All Countles	\$1.25	Buffalo98	Lyman 1.00
Howell 1.16	St. Clair 1.13	New M	TEXTO	Butte 1.04	McCook ,99
Iron 1.14	St. Francois 1.13			Campbell 1.00	McPherson99
Jackson 1.11	Ste.	Curry \$1.18	Roosevelt \$1.18	Charles Mix99	Marshall97
Jasper 1.15	Genevieve _ 1.12	Harding 1.18	Union 1.18	Clark97	Meade 1.03
Jefferson 1.12	St. Louis 1.12	Lea 1.18	All other counties 1.23	Clay 1.02	Mellette 1.02
Johnson 1.11	Saline 1.10	Quay 1.18		Codington97	Miner ,98
Knox 1.08 Laclede 1.15	Schuyler 1.05 Scotland 1.06	New	YORK	Corson 1.02	Minnehaha99
Lafayette 1.10	Scott 1.14	All Counties	61.24	Custer 1.07	Moody98
Lawrence 1.15	Shannon 1.15	3200	2007-2-2	Davison98	Pennington 1.04
Lewis 1.08	Shelby 1.09	STATE OF THE OWNER, THE PARTY OF THE PARTY O	CAROLINA	Day07	Perkins 1.03
Lincoln 1. 10	Stoddard 1.14	All Counties	\$1, 22	Deul	Potter 1.01 Roberts97
Linn 1.07	Stone 1.16	North	DAKOTA	Dewey 1.02 Douglas99	Banborn ,98
Livingston 1.07	Sullivan 1.06			Douglas99 Edmunds99	Shannon 1.06
McDonald 1.16	Taney 1.16	All Counties	0.20	Fall River 1.08	Spink
Macon 1.08	Texas 1.15	OI	HIO	Faulk99	Stanley 1.02
Madison 1, 14	Vernon 1, 13	Adams \$1,18	Licking \$1.11	Grant97	Sully 1.00
Maries 1.13	Warren 1.11	Allen 1.09	Logan 1.09	Gregory 99	Todd 1.02
Marion 1,08	Washington 1.13	Ashland 1.13	Lorain 1.13	Haakon 1.02	Tripp 1.00
Mercer 1.05	Wayne 1.14	Ashtabula 1.20	Lucas 1.11	Hamlin 97	Turner 1,01
Miller 1. 13	Webster 1.15	Athens 1,16	Madison 1.09	Hand98	Union 1.02
Mississippi 1.14	Worth 1.06	Auglaize 1.09	Mahoning 1.20	Hanson98	Walworth 1.01
Moniteau 1.12	Wright 1.15	Belmont 1.18	Marion 1.09	Harding 1.04	Washabaugh _ 1.03
Mon	TANA	Brown 1.13	Medina 1.15	Hughes 1.00	Yankton 1.01
		Butler 1.10	Melgs 1.15	Hutchinson 1.00	Ziebach 1.03
All counties	81.14	Carroll 1.17	Mercer 1.08	Hyde 99	
New	LASKA	Champaign 1.09	Miami 1.09	TENN	TESSEE
		Clark 1.09	Monroe 1.19	The second second second	900000
Adams \$1.04	Furnas \$1.05	Clermont 1.12	Montgomery _ 1.09	Anderson \$1.22	Hamilton \$1.20 Hancock 1.23
Antelope 1.04	Gage 1.05	Clinton 1.11 Columbiana _ 1.20	Morrow 1.16	Bedford 1.19 Benton 1.18	Hardeman 1.17
Arthur 1.07	Garden 1.08	Coehocton 1.14	Muskingum 1.14	Bledsoe 1.20	Hardin 1.18
Banner 1.10	Garfield 1.05 Gosper 1.05	Crawford 1 10	Noble 1.17	Blount 1.23	Hawkins 1,23
Boone 1.05	Grant 1.05	Cuyahoga 1.16	Ottawa 1.11	Bradley 1.21	Haywood 1.17
Box Butte 1.00	Greeley 1.04	Darke 1.08	Paulding 1.08	Campbell 1.22	Henderson 1.17
Boyd 1.02	Hall 1.04	Defiance 1.08	Perry 1.14	Cannon 1.20	Henry 1.17
Brown 1.04	Hamilton 1.04	Delaware 1.09	Pickaway 1.10	Carroll 1.17	Hickman 1.18
Buffalo 1.04	Harlan 1.04	Erie 1.12	Pike 1.12	Carter 1. 23	Houston 1.18
Burt 1.06	Hayes 1.07	Fairfield 1.12	Portage 1.18	Cheatham 1,18	Humphreys 1.18
Butler 1.05	Hitchcock 1.07	Fayette 1.10	Preble 1.09	Chester 1.17	Jackson 1.20
Cass 1.05	Holt 1.03	Franklin 1.09	Putnam 1.09	Claiborne 1.22	Jefferson 1.23
Cedar 1.04	Hooker 1.06	Fulton 1.10	Richland 1.11	Clay 1.20	Johnson 1.23
Chase 1.07	Howard 1.04	Gallia 1.14	Ross 1.11 Sandusky 1.11	Cocke 1.23	Knox 1.22 Lake 1.16
Cherry 1.06	Jefferson 1.05	Geauga 1.18		Coffee 1.19	Lauderdale 1.16
Cheyenne 1.09	Johnson 1.05	Greene 1.09 Guernsey 1.16	Scioto 1.13 Seneca 1.10	Crockett 1.17 Cumberland _ 1.21	Lawrence 1.18
Clay 1.04	Kearney 1.04	Hamilton 1.11	Shelby 1.09	Davidson 1.19	Lewis 1.18
Colfax 1.05	Keith 1.08 Keyapaha 1.04	Hancock 1.10	Stark 1.17	Decatur 1.18	Lincoln 1.18
Cuming 1.05	Kimball 1.10	Hardin 1.09	Summit 1.16	DeKalb 1.20	Loudon 1.22
Dakota 1.05	Knox 1.03	Harrison 1.18	Trumbull 1.20	Dickson 1.18	McMinn 1.21
Dawes 1.09	Lancaster 1.04	Henry 1.09	Tuscarawas 1.16	Dyer 1.16	McNairy 1.18
Dawson 1.04	Lincoln 1.06	Highland 1.11	Union 1.09	Fayette 1.17	Macon 1.19
Deuel 1.09	Logan 1.06	Hocking 1.13	Van Wert 1.08	Fentress 1.21	Madison 1,17
Dixon 1.04	Loup 1.05	Holmes 1.14	Vinton 1.13	Franklin 1.18	Marion 1.19
Dodge 1,05	McPherson 1.06	Huron 1.12	Warren 1.11	Gibson 1.16	Marshall 1.20
Douglas 1.06	Madison 1.05	Jackson 1.13	Washington _ 1.18	Giles 1.18	Maury 1.18
Dundy 1.07	Merrick 1,05	Jefferson 1.19	Wayne 1.15	Grainger 1.23	Meigs 1.21
Fillmore 1.04	Morrill 1.10	Knox 1.11	Williams 1.09	Greene 1.23	Monroe 1.22 Montgomery _ 1.18
Franklin 1.04	Nance 1.05	Lake 1.18	Wood 1.10	Grundy 1.20	Moore 1.20
Frontier 1.06	Nemaha 1.05	Lawrence 1.14	Wyandot 1.10	Hamblen 1.23	

	tte per	-Continued	100
	bushel		te per
Morgan	81. 21	Steward	
Obion		Sullivan	1.23
Overton		Sumner	1.19
Pickett		Trousdale	1, 16
Polk	1.21	Unicol	1.23
Putnam		Union	1.22
Rhea		Van Buren Warren	1.20
Robertson		Washington	
Rutherford		Wayne	1.18
Scott		Weakley White	1.16
Sevier	1.23	Williamson	1.20
Shelby	1,16	Wilson	1.19
Smith	1.19		
	Tu	KAS	
Armstrong		Hemphill	81.14
Balley Briscoe	1.14	Hutchinson	1.16
Carson	1.14	King	1.14
Castro	1.14	Lamb	1.14
Childress		Lipscomb	1.14
Cochran Collingsworth	1,16	Lubbock	
Cottle	1.16	Motley	1.16
Crosby	1.16	Ochiltree	1.14
Dallam Deaf Smith	1.14	Oldham	
Dickens	1.16	Parmer	1.14
Donley	1.15	Randall	1.14
Floyd		Roberts	1.14
Gray		Sherman Swisher	1, 14
Hall	1.15	Wheeler	1.15
Hansford		All other	9.27
Hartley	1.14	counties	1.19
	UT	AH	
All Counties		*******	81.26
	VERN	IONT	
All Counties		***********	81.29
	VERG	INIA	The second second
All Counties	180000	AND ASSESSMENT OF THE PARTY OF	81, 23
			V10.00
An 40/10	WASHI	NGTON	CONTRACTOR OF THE PARTY OF THE
All Counties		**********	81.21
	WEST V	INGINIA	
All Counties			81,22
	Wrene		-
Adams	Wisco		
Ashland	1,09	Juneau Kenosha	81.09
Barron	1.07	Kewaunee	1.11
Bayfield	1.06	La Crosse	1.06
Buffalo	1.11	Lafayette	1.07
Burnett	1.05	Langlade	1.11
Calumet	1.11	Manitowoc	1.12
Chippewa	1.07	Marathon	1,10
Columbia	1.09	Marinette	1.11
Crawford	1.05	Menominee -	1.11
Dane	1.09	Milwaukee	1.11
Door	1.10	Monroe	1.07
Douglas	1.03	Oneida	1.11
Dunn	1.07	Outagamie	1.10
Eau Claire	1.07	Ozaukee	1.11
Fond du Lac_	1.10	Pierce	1.06
Forest	1.11	Polk	1.05
Green	1.05	Portage	1.10
Green Lake	1.08	Price	1.09
Iowa	1.08	Richland	1.11
Iron	1.10	Rock	1,09
Jackson	1.07	Rusk St. Croix	1.08
Company of the Company		ON CIVIALIES	1.06

RULES AND REGULATIONS
Wisconsin-Continued
Rate per County bushel County bushel
Sauk 1.08 Walworth 1.10
Sawyer 1.08 Washburn 1.07
Shawano 1.11 Washington _ 1.10 Sheboygan 1.11 Waukesha 1.10
Sheboygan 1.11 Waukesha 1.10 Taylor 1.09 Waupaca 1.11
Trempealeau_ 1.06 Waushara 1.10
Vernon 1.05 Winnebago 1.11 Vilas 1.11 Wood 1.09
WYOMING
All Counties \$1.14
(b) Premiums—(1) Moisture.
Cents per
14.0 or less
14.1 through 14.5 +1 14.6 through 15.0 +1/2
15.0 through 15.50
(2) Broken corn and foreign material:
Cents per
harabal
Percent: 2.0 or less +1 (The premiums in this subsection
(b) shall not apply to sample grade corn.)
(c) Discounts—(1) Class.
Cents per
Mixed
(2) Test weight per bushel.
Pounds: Cents per bushel
53.0 through 53.91
52.0 through 52.9
50.0 through 50.9
49.0 through 49.9
(3) Total damage.
Percent: Cents per bushel
5.1 through 6.0
6.1 through 7.0
(4) Heat damage.
Cents per
0.21 through 0.50 percent
(5) Broken corn and foreign material.
Cents per bushel
3.1 through 4.0 percent
(6) Weed control laws.
Cents per
(Where required by § 1421.25)
(7) Other.—Amounts determined by
CCC to represent market discounts for
quality factors not specified above which
affect the value of the corn such as (but
not limited to) moisture, weevily, musty,
sour, and rodent excreta. Such discounts
will be established not later than the
time delivery of corn to CCC begins and
will thereafter be adjusted from time to
time as CCC determines appropriate to
reflect changes in market conditions.
Producers may obtain schedules of such factors and discounts at county ASCS
offices appropriate to county ASCS

offices approximately 1 month prior to the loan maturity date.

Effective date September 4, 1973.

Signed at Washington, D.C., August 24, 1973.

> GLENN A. WEIR, Acting Executive Vice President, Commodity Credit Corpora-

[FR Doc.73-18516 Filed 8-4-73;8:45 am]

[Amdt. 1]

SUBCHAPTER B-LOANS, PURCHASES, AND OTHER OPERATIONS

PART 1430-DAIRY PRODUCTS

Price Support Program for Milk

The United States Department of Agriculture has announced an increase, effective August 10, 1973, in the price support level for manufacturing milk for the remainder of the marketing year which ends March 31, 1974 through purchases by Commodity Credit Corpora-tion (CCC) of dairy products under the price support program as provided herein. Accordingly § 1430.282 (a) (1) and (b) (1), as published in the FEDERAL REGISTER on March 27, 1973 (38 FR 7982), are revised to read as follows:

§ 1430.282 Price support program for milk.

(a) (1) The general levels of prices to producers for milk will be supported from March 15, 1973 through August 9, 1973, at \$5.29 per hundredweight, and from August 10, 1973 through March 31, 1974, at \$5.61 per hundredweight for manufacturing milk.

(b) (1) CCC will consider offers of butter, Cheddar cheese, and nonfat dry milk in bulk containers meeting specifications in the announcements at the following

prices:

Commodity and location	Produced March 15- August 9, 1973	Produced on or after August 10, 1973
Butter: U.S. Grade A or Higher:	(Cents per pound)	(Cents per pound)
New York, N.Y., and Jersey City, Newark and Secaucus, New Jersey Seattle, Wash., Washington, San Francisco, Calif., California, Alaska, Hawali, Oregon, Arizona.	62.00	62, 00
New Mexico, Texas, Louisiana, Mississippi, Alabama, Georgia, Flor- ida, and South Carolina, U.S. Grade B. 2 cents per pound less than the price for U.S. Grade A.	61.00	61, 00
Cheddar cheese: (Standard moisture basis, 37.8—39.0%)1_ Nonfat dry milk, spray process:	62.00	65, 00
50-pound bags with sealed closures 3	37, 50	41.40

¹ For cheese which is offered on a "dry" basis (less than 37.8 percent moisture) the price per pound shall be as indicated in Form ASCS-150.

² If upon inspection Type II bags with stitched bottom and top closures do not fully comply with specifications for such closuress, the price paid will be subject to a discount of .25 cent (¼ cent) per pound of nonfat dry milk,

Effective date.-September 5, 1973.

Signed at Washington, D.C., August 27, 1973.

GLENN A. WEIR.

Acting Executive Vice President, Commodity Credit Corporation.

[FR Doc.73-18710 Filed 9-4-73;8:45 am]

Title 9-Animals and Animal Products

PLANT I-ANIMAL AND HEALTH INSPECTION SERVICE, DE-PARTMENT OF AGRICULTURE

BCHAPTER C—INTERSTATE TRANSPORTA-TION OF ANIMALS (INCLUDING POULTRY) AND ANIMAL PRODUCTS; EXTRAORDINARY EMERGENCY REGULATION OF INTRASTATE SUBCHAPTER

PART 82-EXOTIC NEWCASTLE DISEASE; AND PSITTACOSIS OR ORNITHOSIS IN POULTRY

Area Released From Quarantine

This amendment excludes a portion of San Bernardino County in California from the areas quarantined because of exotic Newcastle disease. Therefore, the restrictions pertaining to the interstate movement of poultry, mynah and psittacine birds, and birds of all other species under any form of confinement, and their carcasses and parts thereof, and certain other articles from quarantined areas, as contained in 9 CFR Part 82, as amended, will not apply to the excluded area.

Pursuant to the provisions of sections 1, 2, 3, and 4 of the Act of March 3, 1905, as amended, sections 1 and 2 of the Act of February 2, 1903, as amended, sections 4, 5, 6, and 7 of the Act of May 29, 1884, as amended, and sections 3 and 11 of the Act of July 2, 1962 (21 U.S.C. 111, 112, 113, 115, 117, 120, 123, 124, 125, 126, 134b, 134f), Part 82, Title 9, Code of Federal Regulations, is hereby amended in the following respects:

In § 82.3, in paragraph (a) (1) relating to the State of California, subdivision (iii) relating to San Bernardino County is deleted.

(Secs. 4-7, 23 Stat. 32, as amended; secs. 1 and 2, 32 Stat. 791-792, as amended; secs. 1-4, 33 Stat. 1264, 1265, as amended; secs. 3 and 11, 76 Stat. 130, 132; 21 U.S.C. 111-113, 115, 117, 120, 123-126, 134b, 134f; 37 FR 28464.

Effective date .- The foregoing amendment shall become effective August 30, 1973.

The amendment relieves certain restrictions presently imposed but no longer deemed necesary to prevent the spread of exotic Newcastle disease, and must be made effective immediately to be of maximum benefit to affected persons. It does not appear that public participation in this rulemaking proceeding would make additional relevant information available to the Department.

Accordingly, under the administrative procedure provisions in 5 U.S.C. 553, it is found upon good cause that notice and other public procedure with respect to the amendment are impracticable and unnecessary, and good cause is found for making it effective less than 30 days after publication in the FEDERAL REGISTER.

Done at Washington, D.C., this 30th day of August, 1973.

G. H. WISE.

Acting Administrator, Animal and Plant Health Inspection Service.

[FR Doc.73-18744 Filed 9-4-73;8:45 am]

SUBCHAPTER D—EXPORTATION AND IMPORTA-TION OF ANIMALS (INCLUDING POULTRY AND ANIMAL PRODUCTS)

PART 97-OVERTIME SERVICES RELAT-ING TO IMPORTS AND EXPORTS

Administrative Instructions Prescribing Commuted Travel Time Allowances

The purpose of this amendment is to establish commuted travel time periods as nearly as may be practicable to cover the time necessarily spent in reporting to and returning from the place at which an employee of Veterinary Services performs overtime or holiday duty when such travel is performed solely on account of overtime or holiday duty. Such establishment depends upon facts within the knowledge of the Animal and Plant Health Inspection Service.

Therefore, pursuant to the authority conferred upon the Deputy Administrator, Veterinary Services, Animal and Plant Health Inspection Service by § 97.1 of the regulations concerning overtime services relating to imports and exports (9 CFR 97.1), administrative instructions 9 CFR 97.2 (1973 ed.), as amended January 26, 1973 (38 FR 2442) and June 19, 1973 (38 FR 15953), prescribing the commuted travel time that shall be included in each period of overtime or holiday duty, are hereby amended by adding to or deleting from the respective "lists" therein as follows:

WITHIN METROPOLITAN AREA

TWO HOURS

Add: Port of Savannah (served from Savannah, Georgia).

OUTSIDE METROPOLITAN AREA

FOUR HOURS

Add: Barron, Wisconsin (when served from Eau Claire, Wisconsin).

SIX HOURS

Add: urron, Wisconsin (when served from St. Barron, Paul, Minnesota).

OUTSIDE METROPOLITAN AREA

ONE HOUR

Delete: Port of Savannah (served from Savannah, Georgia).

(64 Stat. 561; 7 U.S.C. 2260.)

Effective date.-The foregoing amendment shall become effective September 5. 1973

It is to the benefit of the public that these instructions be made effective at the earliest practicable date. Accordingly, pursuant to 5 U.S.C. 553, it is found upon good cause that notice and public procedure on these instructions are impracticable, unnecessary, and contrary to the public interest, and good cause is found for making them effective less than 30 days after publication in the FEDERAL REGISTER.

Done at Washington, D.C., this 29th day of August, 1973.

> J. M. HEJL. Acting Deputy Administrator Veterinary Services, Animal and Plant Health Inspection Service.

[FR Doc.73-18745 Filed 9-4-73:8:45 am]

Title 12-Banks and Banking

CHAPTER V-FEDERAL HOME LOAN BANK BOARD

SUBCHAPTER B-FEDERAL HOME LOAN BANK

[No. 73-1245]

PART 526-LIMITATIONS ON RATE OF RETURN

> **Amendment Relating to Certificate** Accounts of \$100,000 or More

> > AUGUST 28, 1973.

The Federal Home Loan Bank Board considers it advisable to amend § 526.5-1 of the regulations for the Federal Home Loan Bank System (12 CFR 526.5-1) to increase from 5 percent to 10 percent the percentage of total savings which member institutions may have outstanding in certificate accounts of \$100,000 or more paying a return at a rate in excess of 6.75 percent. Accordingly, the Federal Home Loan Bank Board hereby amends said § 526.5-1 by revising paragraph (b) thereof to read as set forth below, effective August 29, 1973.

Since affording notice and public procedure on the above amendment would delay it from becoming effective for a period of time and since it is in the public interest that such amendment becomes effective as soon as possible, the Board hereby finds that notice and public procedure thereon are contrary to the public interest under the provisions of 12 CFR 508.11 and 5 U.S.C. 553(b); and the Board hereby finds that publication of such amendment for the 30-day period specified in 12 CFR 508.14 and 5 U.S.C. 553(d) prior to the effective date thereof is unnecessary since it relieves restrictions; and the Board hereby provides that such amendment shall become effective as hereinbefore set forth.

§ 526.5-1 Certificate \$100,000 or more.

(b) Percentage limitation .- No member institution may pay a return at a rate in excess of 6.75 percent per annum on any certificate account of \$100,000 or more if, as a result of the issuance of such certificate account, the total amount of all such certificate accounts then outstanding, on which a return is being paid at a rate in excess of 6.75 percent per annum, would exceed 10 percent of the institution's total savings accounts outstanding at the end of its most recent distribution period for regular accounts.

Sec. 5B, 47 Stat. 727, as added by sec. 4, 80 Stat. 824, as amended by Public Law 91-151, sec. 2(b), 83 Stat. 371; sec. 17, 47 Stat. 736, as amended; 12 U.S.C. 1425b, 1437. Reorg. Plan No. 3 of 1947, 12 PR 4981, 3 CFR, 1943-48 Comp., p. 1071.)

By the Federal Home Loan Bank Board.

[SEAL]

EUGENE M. HERRIN, Assistant Secretary.

[FR Doc.73-18740 Filed 9-4-73;8:45 am]

Title 14—Aeronautics and Space

CHAPTER I-FEDERAL AVIATION ADMIN-ISTRATION, DEPARTMENT OF TRANS-PORTATION

[Docket No. 73-EA-59; Amdt. 39-1709]

PART 39-AIRWORTHINESS DIRECTIVE DeHavilland Aircraft

The Federal Aviation Administration is amending section 39.13 of Part 39 of the Federal Aviation Regulations so as to issue an airworthiness directive applicable to deHavilland DHC-6 type airplanes.

There have been reports of propellers on DHC-6 aircraft inadvertently autofeathering, thereby overtorquing the engine with resultant damage to the engine. Because this deficiency can exist or develop in other aircraft of similar type design, an airworthiness directive is... being issued which will require deactivation of the autofeather system, placarding and revision of Vmc speeds.

Since the foregoing involves a certain hazard to air safety, expeditious adoption of this amendment is required and, therefore, notice and public procedure hereon are impractical and cause exists for making the amendment effective in less than 30 days. In consideration of the foregoing and pursuant to the authority delegated to me by the Administrator, 14 CFR 11.89 (31 FR 13697) § 39.13 of Part 39 of the Federal Aviation Regulations is amended by adding the following new airworthiness directive:

DeHavilland: Applies to deHavilland Air-craft of Canada, Ltd., Model DHC-6 air-craft Series 100 and 200, serial numbers 6 through 230 inclusive, incorporating Modification No. 6/1278 (Propeller Autofeather system) and Series 300 Serial Numbers 130, 210, 231 through 290 in-clusive (less Serial Numbers 265, 270, 277, 281, and 283.

Compliance required within 200 hours after the effective date of this AD unless already accomplished.

To prevent inadvertent autofeathering, ac-

complish the following:
1. (a) Deactivate the autofeather system by disconnecting the circuit breaker marked "PROP AUTO-FEATHER" in the panel behind the copilot's position.

(b) Install placard stating "Auto-feather System Deactivated" adjacent to auto-feather select switch.

(c) Revise Vmc speed on airspeed limitsplacard above pilot's position as fol-

Series 200 (Long-Nose) "68 kts. CAS"
Series 200 "68 kts. CAS"
Series 300 "70 kts. CAS"

The accomplishment of deHavilland Modifications Nos. 6/1472 and 6/1459 as applicable or an equivalent modification approved by the Chief, Engineering and Manufacturing Branch, FAA, Eastern Region, nullifies the applicability of this airworthiness

(MOT approved Flight Manual Supplements Nos. 13, 14, and 19 pertain to and validate aircraft operations under CAR 3 or SFAR

(Note: Canadian Ministry of Transport Airworthiness Directives CF-73-4 and CA-73-9 cover the same subject.)

This amendment is effective September 11, 1973.

(Sections 313(a), 601, and 603 of the Federal Aviaton Act of 1958 (49 U.S.C. 1354(a), 1421, and 1423), and section 6(c) of the Depart-ment of Transportation Act (49 U.S.C.

Issued in Jamaica, N.Y. on Aug. 27,

ROBERT H. STANTON, Director, Eastern Region,

[FR Doc.73-18683 Filed 9-4-73;8:45 am]

[Airspace Docket No. 73-SW-36]

PART 71-DESIGNATION OF FEDERAL AIRWAYS, AREA LOW ROUTES, CONTROLLED AIRSPACE, AND REPORTING POINTS

Alteration and Revocation of VOR Federal Airways

On July 10, 1973, a notice of proposed rulemaking (NPRM) was published in the Federal Register (38 FR 18383) stating that the Federal Aviation Administration (FAA) was considering an amendment to Part 71 of the Federal Aviation Regulations that would alter several VOR Federal Airways in the vicinity of Oklahoma City, Okla., and revoke those airways determined to be unnecessary. Subsequent to publication of the notice, it was determined that realignment of V-210 southwest of Okmulgee, Okla., should be via the Okmulgee radial rather than via the 244° radial proposed in the notice. Since this change from the notice is minor in nature, further notice and public procedure are unnecessary and that change is made herein.

Interested persons were afforded an opportunity to participate in the proposed rulemaking through the submission of comments. All comments received were favorable.

In consideration of the foregoing, Part 71 of the Federal Aviation Regulations is amended, effective 0901 G.m.t., November 8, 1973, as hereinafter set forth. Section 71.123 (38 FR 307, 19962, and

9488) is amended as follows:

1. In V-272: "INT Oklahoma City 107° and McAlester, Okla., 292° radials; Mc-Alester." is deteted and "to McAlester. Okla," is substituted therefor.

2. In V-210: "Oklahoma City, Okla. 282° radials; Oklahoma City." is deleted and "Oklahoma City, Okla., 282" radials; Oklahoma City; INT Oklahoma City 109° and Okmulgee, Okla., 241° radials; Okmulgee." is substituted therefor.

3. In V-15: "Okmulgee, Okla., including an E alternate and also a W alternate via INT Ardmore 006° and Okmulgee

245° radials;" is deleted and "Okmulgee, Okla., including an E alternate:" is substituted therefor.

4. In V-164: "Oklahoma City, including a W alternate via INT Ardmore 327° and Oklahoma City 180° radials and also an E alternate via INT Ardmore 006° and Oklahoma City 107° radials." is deleted and "to Oklahoma City, including a W alternate via INT Ardmore 327° and Oklahoma City 180° radials." stituted therefor.

(Sec. 307(a) of the Federal Aviation Act of 1958 (49 U.S.C. 1348(a)); Sec. 6(c) of the Department of Transportation Act (49 U.S.C.

Issued in Washington, D.C., on August 27, 1973.

H. B. HELSTROM. Chief, Airspace and Air Traffic Rules Division.

[FR Doc.73-18697 Filed 9-4-73;8:45 am]

[Airspace Docket No. 73-SO-54]

PART 71-DESIGNATION OF FEDERAL AIRWAYS, AREA LOW ROUTES, CONTROLLED AIRSPACE, AND REPORTING POINTS

Alteration of Federal Airway Segments

The purpose of this amendment to Part 71 of the Federal Aviation Regulations is to renumber airway segments in the Orlando, Fla.-Cross City, Fla., area, and to eliminate a small section of airway between the Center Hill, Fla., and the Homo, Fla., Intersections.

Miami Center peak day traffic surveys for 1967 through 1972 indicated that no IFR traffic operated along the segment of airway between Center Hill and Homo during the survey periods. Since an air traffic control requirement for this airway segment no longer exists, action is taken herein to discontinue its designation.

The proximity and alignments of V-159 and V-159W northwest of Orlando have resulted in pilots' misunderstanding as to the assigned airway. Revocation of V-295 between the Center Hill and Homo Intersections, and renumbering V-159W between Ocala, Fla., and Orlando and V-159 between Cross City and Ocala as V-295 will eliminate this potential hazard.

Since the renumbering of existing airways is merely an editorial procedure with no substantive change in airspace assignment, and since it is a minor matter upon which the public is not particularly interested, notice and public procedure thereon are unnecessary. However, since sufficient time must be allowed for these changes to be reflected on appropriate aeronautical charts, the effective date will be more than 30 days publication in the FEDERAL after REGISTER.

In consideration of the foregoing, Part 71 of the Federal Aviation Regulations is amended, effective 0901 G.m.t., November 8, 1973, as hereinafter set forth.

Section 71.123 (38 FR 307 and 16633) is amended as follows:

a. In V-159 "Ocala, Fla., including a west alternate via INT Orlando 283" and Ocala 156° radials" is deleted and "Ocala,

Fla," is substituted therefor.

b. In V-295 "Orlando; INT Orlando 283" and Cross City, Fla., 150" radials; Cross City." is deleted and "Orlando; INT Orlando 283° and Ocala, Fla., 156' radials; Ocala; Cross City, Fla." is substituted therefor.

(Sec. 307(a) of the Federal Aviation Act of 1958 (49 U.S.C. 1348(a); Sec. 6(c) of the Department of Transportation Act (49 U.S.C.

Issued in Washington, D.C., August 27, 1973.

> CHARLES H. NEWPOL, Acting Chief, Airspace and Air Traffic Rules Division.

(FR Doc.73-18696 Filed 9-4-73;8:45 am)

[Airspace Docket No. 73-EA-50]

PART 71—DESIGNATION OF FEDERAL AIRWAYS, AREA LOW ROUTES, CONTROLLED AIRSPACE, AND REPORTING POINTS

Alteration of Control Zone and Transition Area

On page 18385 of the FEDERAL REGISTER for July 10, 1973, the Federal Aviation Administration published proposed regulations which would alter the Bradford, Pa., Control Zone (38 FR 360) and Transition Area (38 FR 453)

Interested parties were given 30 days after publication in which to submit written data or views. No objections to the proposed regulations have been

received. In view of the foregoing, the proposed regulations are hereby adopted, effective 0901 G.m.t., November 8, 1973.

(Section 307(a) of the Federal Aviation Act of 1958, 72 Stat. 749; (49 U.S.C. 1348) and section 6(c) of the Department of Transportation Act (49 U.S.C. 1655(c).))

Issued in Jamaica, N.Y., on August 17, 1973.

L. J. CARDINALI, Acting Director, Eastern Region.

1. Amend § 71.171 of Part 71 of the Federal Aviation Regulations by deleting the description of the Bradford, Pa., control zone and by substituting the following in lieu thereof:

Within a 5-mile radius of the center 41"-48'09"N.,78"38'27"W. of Bradford Regional Airport, Bradford, Pa.; within 3.5 miles each side of the Bradford, Pa. VORTAC 139" radial, extending from the VORTAC to 10 miles southeast of the VORTAC.

2. Amend § 71.181 of Part 71 of the Federal Aviation Regulations by deleting the description of the Bradford, Pa., transition area and by substituting the following in lieu thereof:

That airspace extending upward from 700 feet above the surface within a 12-mile radius of the center, 41°48'09" N., 78°38'27" W., of Bradford Regional Airport, Bradford, Pa.; within 3.5 miles each side of the Bradford Regional Airport ILS localizer southeast

course, extending from the OM to 11.5 miles southeast of the OM; within 5 miles each side of the Bradford, Pa., VORTAC 139° radial, extending from the VORTAC to 11.5 miles southeast of the VORTAC; within miles each side of the Bradford, Pa., VOR TAC 316° radial, extending from the VOR TAC to 18.5 miles northwest of the VORTAC.

[FR Doc.73-18694 Filed 9-4-73;8:45 am]

[Airspace Docket No. 73-SW-43]

PART 71—DESIGNATION OF FEDERAL AIRWAYS, AREA LOW ROUTES, CONTROLLED AIRSPACE, AND REPORTING POINTS

Designation of Transition Area

The purpose of this amendment to Part 71 of the Federal Aviation Regulations is to designate the Brownfield, Tex., transition area.

On July 13, 1973, a notice of proposed rulemaking was published in the FEDERAL REGISTER (38 FR 18685) stating the Federal Aviation Administration proposed to designate a 700-foot transition area at Brownfield, Tex.

Interested persons were afforded an opportunity to participate in the rulemaking through submission of comments. All comments received were favorable.

In consideration of the foregoing, Part 71 of the Federal Aviation Regulations is amended, effective 0901 G.m.t., November 8, 1973, as hereinafter set forth.

In § 71.181 (38 FR 435), the following transition area is added:

BROWNFIELD, TEX.

That airspace extending upward from 700 feet above the surface within a 5-mile radius of Brownfield, Tex., Terry County Airport (latitude 33*10'29" N., longitude 102*11'29" W.) and within 3.5 miles each side of a 200° bearing from the Brownfield nondirectional beacon (latitude 33°10'45" N., longitude 102°11'30" W.) extending from the 5-mile radius area to 8 miles south of the radio beacon.

(Sec. 307(a), Federal Aviation Act of 1958 (49 U.S.C. 1348); Sec. 6(c), Department of Transportation Act (49 U.S.C. 1655(c).)

Issued in Fort Worth, Tex., on August 24, 1973.

ALBERT H. THURBURN, Acting Director Southwest Region.

[FR Doc.73-18695 Filed 9-4-73;8:45 am]

Title 21-Food and Drugs

CHAPTER I-FOOD AND DRUG ADMINISTRATION, DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

SUBCHAPTER C-DRUGS

PART 135-NEW ANIMAL DRUGS Nitrofuran Drugs in the Feed of Animals

A proposal regarding the use of nitrofuran drugs in animal feeds was published in the FEDERAL REGISTER of April 20, 1973 (38 FR 9830). Two comments were received, both from drug manufacturers, and both opposed the proposed action. A review of the comments reflects certain issues of concern which, along with the responses of the Commissioner of Food and Drugs, are as follows:

1. It was stated that the use of nitrofuran derivative substances in animal feeds does not create a hazard to human and animal health in that the natural incidence of bacterial resistance to nitrofurans is not important, its infective nature is limited and does not develop readily, and the prophylactic use of nitrofurans in animal feeds should not lead to an increase in the salmonella reservoir.

The original charge of the Antibiotic Task Force was to gather and review all current information regarding human and animal health hazards associated with the use of subtherapeutic levels of antibacterial agents in the feed of foodproducing animals. The complete review of the subject by the task force is evidenced by the extensive documentation supporting the report. Although the text of the report dealt with antibacterial drugs in general and did not refer specifically to nitrofuran drugs, it was not the intent of the task force to exclude such drugs from safety and efficacy considerations.

A review of the literature cited by the respondent, a reexamination of the documentation in the task force reports, and a survey of the remaining current literature indicate that while there is insufilcient evidence to resolve the concerns of the Task Force on Use of Antibiotics in Animal Feeds, there is sufficient question to invoke the authority under section 512(1) of the act fully to investigate these issues in order to obtain more definitive data to resolve them.

Information regarding the question raised by the task force on nitrofuran drugs is meager. Available information does support that, upon occasion, the gram-negative enterobacteria do develop increased resistance to nitrofurans and this resistance is transferable to other enterobacteria. The effect of nitrofurans on the salmonella reservoir in foodproducing animals has not been adequately documented.

2. It was stated that nitrofuran derivatives should be excluded from the requirements of the announcement because of a variety of uses and routes of use of several derivatives. The intent of the Antibiotic Task Force was to examine the broad categories of antibacterial drugs for their effects on human and animal health. Based on evidence to be presented to the task force and more recent literature; there is no reason to believe that the several nitrofuran derivatives will not behave in a similar manner regarding the initiation of resistance in enterobacteria, the transfer of such resistance, or the effect on the salmonella reservoir or the gram negative enteric flora of food-producing animals.

Based on the information above, the Commissioner concludes that nitrofuran drugs clearly fall within the area of concern of the task force. Therefore, such drugs should fall within the purview of § 135.109. In addition, the Commissioner concludes that the timetable for submission of the initial report and the final end point for receipt of all data should be adjusted to allow sponsors of nitrofuran drugs periods of time consistent with those allowed for those antibiotic drugs other than the tetracyclines, streptomycin, dihydrostreptomycin, penicillin, and the sulfonamides.

Therefore, pursuant to provisions of the Federal Food, Drug, and Cosmetic Act (secs. 512, 701(a), 52 Stat. 1055, 82 Stat. 343-351; 21 U.S.C. 360b, 371(a)) and under authority delegated to the Commissioner (21 CFR 2.120), § 135.109 is amended by revising the section heading, paragraphs (a), (b)(1), (2), and (3); and (f)(1) to read as follows:

§ 135.109 Antibiotic, nitrofuran, and sulfonamide drugs in the feed of animals.

(a) The Commissioner of Food and Drugs will propose to revoke currently approved subtherapeutic (increased rate of gain, disease prevention, etc.) uses in animal feed of antibiotic and sulfonamide drugs whether granted by approval of new animal drug applications, master files and/or antibiotic or food additive regulations, by no later than April 20, 1975, or the nitrofuran drugs by no later than September 5, 1975, unless data are submitted which resolve conclusively the issues concerning their safety to man and animals and their effectiveness under specific criteria established by the Food and Drug Administration based on the guidelines included in the report of the FDA task force on the use of antibiotics in animal feeds. All persons or firms previously marketing identical, related, or similar products except the nitrofuran drugs not the subject of an approved new animal drug application must submit a new animal drug application by July 19, 1973, or by December 4, 1973, in the case of nitrofuran drugs, if marketing is to continue during the interim. New animal drug entities with antibacterial activity not previously marketed, now pending approval or submitted for approval prior to, on, or following the effective date of this publication, shall satisfy such criteria prior to approval.

(b) Any person interested in developing data which will support retaining approval for such uses of such antibiotic, nitrofuran, and sulfonamide drugs pursuant to section 512(1) of the Federal Food, Drug, and Cosmetic Act shall submit to the Commissioner the following:

- (1) By July 19, 1973, records and reports of completed, ongoing, or planned studies, including protocols, on the tetracyclines, streptomycin, dihydrostreptomycin, penicillin, and the sulfonamides; for all other antibiotics by October 17, 1973; and for the nitrofuran drugs by March 4, 1974. The Food and Drug Administration encourages sponsors to consult with the Bureau of Veterinary Medicine on protocol design and plans for future studies.
- (2) By April 20, 1974, data from completed studies on the tetracyclines, streptomycin, dihydrostreptomycin, the sulfonamides, and penicillin assessing the effect of the subtherapeutic use of the drug in feed on the salmonella reservoir in the target animal as compared to that in nonmedicated controls. Failure to complete the salmonella studies for any

of these drugs by that time will be grounds for proceeding to immediately withdraw approval.

(3) By April 20, 1975, data satisfying all other specified criteria for safety and effectiveness, including the effect on the salmonella reservoir for any antibiotic or sulfonamide drugs and by September 5, 1975, for the nitrofuran drugs, approved for subtherapeutic use in animal feeds. Drug efficacy data shall be submitted for any feed-use combination product containing such drug and any feed-use single ingredient antibiotic, nitrofuran, or sulfonamide not reviewed by the National Academy of Sciences-National Research Council, Drug Efficacy Study covering drugs marketed between 1938 and 1962.

(f) * * *

.

(1) Those antibiotic, nitrofuran, and sulfonamide drugs which fail to meet the prescribed criteria for subtherapeutic uses but which are found to be effective for therapeutic purposes will be permitted in feed only for high-level, shortterm therapeutic use and only by or on the order of a licensed veterinarian.

Effective date.—This order shall be effective September 5, 1973.

(Secs. 512, 701(a), 52 Stat. 1055, 82 Stat. 343-351; (21 U.S.C. 360b, 371(a)).)

Dated August 28, 1973.

Sam D. Fine, Associate Commissioner for Compliance.

[FR Doc.73-18712 Filed 9-4-73;8:45 am]

Title 24—Housing and Urban Development

CHAPTER X—FEDERAL INSURANCE ADMINISTRATION, DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SUBCHAPTER B—NATIONAL FLOOD INSURANCE PROGRAM

[Docket No. FI-197]

PART 1914-AREAS ELIGIBLE FOR THE SALE OF INSURANCE

Status of Participating Communities

Section 1914.4 of Part 1914 of Subchapter B of Chapter X of Title 24 of the Code of Federal Regulations is amended by adding in alphabetical sequence a new entry to the table. In this entry, a complete chronology of effective dates appears for each listed community. Each date appearing in the last column of the table is followed by a designation which indicates whether the date signifies the effective date of the authorization of the sale of flood insurance in the area under the emergency or the regular flood insurance program. The entry reads as follows:

§ 1914.4 Status of participating communities.

Tree land				The same of the sa	100		
State	County	Location	Map No.	State map repository		Local map repository	Effective date of authorization of sale of flood insurance for area
Missouri	Newton	Seneca, City of				•	Aug. 30, 1973.
Mississippl	Lafayette	Oxford, City of Beech Creek,					94000
Do	Lycoming	Township of. Montgomery,				•••••	. Do.
	Juniata		*******************************				, Do.
Vermont	Rutland	ship of, Rutland, City of.		4			. Do.

(National Flood Insurance Act of 1968 (title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (33 F.R. 17804, Nov. 28, 1969), as amended (secs. 408-410, Public Law 91-152, Dec. 24, 1969), 42 U.S.C. 4001-4127; and Secretary's delegation of authority to Pederal Insurance Administrator, 34 F.R. 2680, Feb. 27, 1969)

Issued August 24, 1973.

George K. Bernstein, Federal Insurance Administrator. [Docket No. FI-198]

PART 1914-AREAS ELIGIBLE FOR THE SALE OF INSURANCE

Status of Participating Communities

Section 1914.4 of Part 1914 of Subchapter B of Chapter X of Title 24 of the Code of Federal Regulations is amended by adding in alphabetical sequence a new entry to the table. In this entry, a complete chronology of effective dates appears for each listed community. Each date appearing in the last column of the table is followed by a designation which indicates whether the date signifies the effective date of the authorization of the sale of flood insurance in the area under the emergency or the regular flood insurance program. The entry reads as follows:

§ 1914.4 Status of participating communities

			*				
State	County	Location	Map No.	State map reposit	tory	Local map repository	Effective date of authorizatio of sale of flood insurance for area
Colorado Bo	oulder	Broomfield, City of.	I 08 013 0253 01	Colorado Water Conserv Room 102, 1845 Shermi ver, Colo. 80203.	ation Board, an St., Den-	City Manager, City of Broomfield, No. 8 Garden Office Center, Broom- field, Colo. 80020.	Feb. 18, 1972. Emergency. Sept. 7, 1973. Regular.
FloridaVo	olusia	Daytona Beach, City of	1 12 127 0780 05 through 1 12 127 0780 12	Colorado Division of In State Office Bidg., D 80203. Department of Commin 2571 Executive Center Howard Bidg., Taila 32301. State of Florida Insur- ment, Treasurer's	enver, Colo. nity Affairs, Circle East, thassee, Fla. ance Depart-	City Manager, City of Daytona Beach, P.O. Box 551, Daytona Beach, Fla. 32015.	
Do	_do	Daytona Beach Shores, City of.	I 12 127 0782 02	Capitol, Taliabassee, F	la. 32304.	City Hall, 3050 South Atlantic Ave., Daytoun Beach Shores, Fia. 32016.	Jan. 29, 1971. Emergency. Sept. 7, 1973. Regular.
Do	do	Holly Hill, City of.	1 12 127 1410 01 1 12 127 1410 02	do		City Manager, City of Holly Hill, Ten Sixty Five Ridgewood Ave., Holly Hill, Fla. 32017.	May 14, 1971. Emergency Sept. 7, 1973.
Do	do,	City of	through I 12 127 2375 11			Ormond Beach City Hall, 22 South Beach St., Ormond Beach, Fla. 32074.	Sept. 7, 1973. Regular.
Do A	Inchua	Unincorporated					Aug. 29, 1973. Emergency
Do P	alm Beach	Bench, Village					
Dinois D		Village of.					Do.
		of. Bedford, Town of.	I 25 017 0090 01 through I 25 017 0090 04	Resources Commission Bldg., 100 Cambridge Mass. 02202. Massachusetts Division 100 Cambridge St., 1	of Insurance,	01730,	Apr. 2, 1971. Emergency Sept. 7, 1973. Regular.
M souri	ole	Portage Des		02202.			Aug. 29, 1973. Emergency
Namentania C	Tinton	Sloux, City of. Chapman, Town-					. Do.
	ebanon	North London-					. Do.
		ship of					Do.
		Putnam, Town-					
Texas 1	ort Bend and Harris.	Missouri City,					
		Ola	***************************************		*******		. Do.
Do	York	Poqueson, Town					Do.
Wisconsin 1	Kewaunee	. Algoma, City of	***************************************	***************************************	***********		

(National Flood Insurance Act of 1968 (title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (33 F.R. 17804, Nov. 28, 1968), as amended (secs. 408-410, Public Law 91-152, Dec. 24, 1969), 42 U.S.C. 4001-4127; and Secretary's delegation of authority to Federal Insurance Administrator, 34 F.R. 2680, Feb. 27, 1969)

Issued August 24, 1973.

George K. Bernstein. Federal Insurance Administrator.

[FR Doc.73-18633 Filed 9-4-73;8:45 am]

[Docket No. FI-200]

PART 1914-AREAS ELIGIBLE FOR THE SALE OF INSURANCE

Status of Participating Communities

Section 1914.4 of Part 1914 of Subchapter B of Chapter X of Title 24 of the Code of Federal Regulations is amended by adding in alphabetical sequence a new entry to the table. In this entry, a complete chronology of effective dates appears for each listed community. Each date appearing in the last column of the table is followed by a designation which indicates whether the date signifies the effective date of the authorization of the sale of flood insurance in the area under the emergency or the regular flood insurance program. The entry reads as follows:

§ 1914.4 Status of participating communities

State	County	Location	Map No.	State map repository	Local map repository	Effective date of authorization of sale of flood insurance for area
California	San Diego	. El Cajon, City of	***			Ang. 31, 1973.
Connecticut Do	Fairfield New Haven	Shelton, City of				Emergency.
lew York	Monroe	Spencerport, VII-			***************************************	Do.
Do	Suffolk	Shelter Island, Town of.			***************************************	Do.
orth Carolina.	Wake Columbia	. Raleigh, City of				Do. Do.
Do	Lawrence	The second secon				Do.
Do	McKean	. Kenting, Town-				Do.

(National Flood Insurance Act of 1968 (title XIII of the Housing and Urban Development Act of 1968), effective Jan. 28, 1969 (33 F.R. 17804, Nov. 28, 1968), as amended (secs. 408-410, Public Law 91-152, Dec. 24, 1969), 42 U.S.C. 4001-4127; and Secretary's delegation of authority to Federal Insurance Administrator, 34 F.R. 2680, Feb. 27, 1969)

Issued August 24, 1973.

George K. Bernstein, Federal Insurance Administrator.

[FR Doc.73-18634 Filed 9-4-73:8:45 am]

Title 25-Indians

CHAPTER I—BUREAU OF INDIAN
AFFAIRS, DEPARTMENT OF THE INTERIOR
SUBCHAPTER W—MISCELLANEOUS ACTIVITIES
PART 256—OFF-RESERVATION TREATY
FISHING

Identification Cards

The authority to issue regulations on Indian affairs is vested in the Secretary of the Interior by 5 U.S.C. 301 and sections 463 and 465 of the Revised Statutes (25 U.S.C. 2 and 9).

Part 256, Subchapter W, Chapter I, Title 25, of the Code of Federal Regulations is amended by revising section 256.3 (b). This revision extends to December 31, 1974, the deadline for issuing temporary identification cards as evidence of entitlement to exercise fishing rights secured by treaty to tribal members who do not have approved current membership rolls. The revision is prepared under the authority contained in 5 U.S.C. 301 and sections 463 and 465 of the Revised Statutes (25 U.S.C. 2 and 9).

Since this revision extends a deadline for issuing temporary identification cards to tribal members to be used in connection with treaty fishing rights, advance notice and public procedure thereon would delay extension of the deadline for issuing the identification cards and is deemed contrary to the public interest. Therefore, advance notice and public procedure are dispensed with under the

exception provided in subsection (b) (B) of 5 U.S.C. 553 (1970).

Since this revision extends the deadline to allow tribal members to receive needed identification cards, the 30-day deferred effective date is dispensed with under the exception provided in subsection (d) (1) of 5 U.S.C. 553 (1970). Accordingly, these regulations will become effective on September 5, 1973.

As revised, § 256.3 reads as follows:

§ 256.3 Identification cards.

(b) No such card shall be issued to any Indian who is not on the official membership roll of the tribe which has been approved by the Secretary of the Interior. Provided, That until December 31, 1974, a temporary card may be issued to any member of a tribe not having an approved current membership roll who submits evidence of his entitlement thereto satisfactory to the issuing officer and, in the case of a tribally issued card, to the countersigning officer. Any Indian claiming to have been wrongfully denied a card may appeal the decision in accordance with Part 2 of this chapter.

No further changes are made in the text of Part 256.

WILLIAM L. ROGERS,
Deputy Assistant Secretary
of the Interior,

AUGUST 30, 1973. [FR Doc.73-18761 Filed 9-4-73;8:45 am] Title 32—National Defense
CHAPTER VII—DEPARTMENT OF THE
AIR FORCE

SUBCHAPTER A-ADMINISTRATION

PART 809—ISSUE AND CONTROL OF IDENTIFICATION (ID) CARDS

Miscellaneous Amendments

This update clarifies the dependent status of a surviving parent/parent-inlaw; requires designation of one primary and one or more alternate issuing officials, as considered necessary, and requires the issuing official be identified by letter to the Publications Distribution Office (PDO) along with the issuing official's signature specimen; directs that all waivers of conditions granting benefits and privileges be forwarded to appropriate office of primary responsi-bility; requires all designation of an individual outside the issuing activity to conduct an inventory of cards; requires periodic unscheduled security police inspection of ID cards at entrances to Air Force installations; expands commissary patronage to members of the household who do not reside in the same household as the sponsor; identifies children acquired through subsequent marriage by widows for eligibility for certain privileges; deletes requirement for dependency determination for husbands of female members for medical care; states that the original determination for medical care must always be made by the Air Force Accounting and Finance Center; requires the recording of supporting documents such as marriage certificates and birth certificates on DD Form 1172, item 18; prohibits use of facsimile signature stamps on AF Form 279 and DD Form 1172; prohibits signing of ID cards by issuing officials until all required data has been entered on the card; permits civilian employees of benefits and privilege sources to confiscate ID cards under certain conditions; outlines data re-quired to support cases forwarded to Headquarters United States Air Force, Office of The Judge Advocate General, Directorate of Civil Law, Litigation Division, for possible referral to Department of Justice; directs issuing officials to obtain all ID cards, including emergency requirements, from the PDO only; revises procedures for accountability, inventory, and transfer of ID cards; initiates new control procedures for retrieval of ID cards at the time of discharge and separation; and announces that signatures appearing on Navy verified DD Forms 1172 will be accepted.

Part 809, Subchapter A of Chapter VII of Title 32 of the Code of Federal Regu-

lations is amended as follows:

1. Section 809.4 is amended by: deleting the note following paragraph (f) (6)(ii); revising paragraph (h); and amending paragraph (1) by adding new subparagraphs (2) through (4).

§ 809.4 Definitions.

(h) Issuing activity.-An agency or person authorized, upon receipt of a properly certified application, to issue one of the ID cards listed in this part. (This activity must have the necessary photographing and laminating facilities.) Commissioned officers, warrant officers, noncommissioned officers (grades E-5 through E-9), and civilians (GS-5 and above) may be authorized to authenticate ID cards. A noncommissioned officer (grade E-4) who is the noncommissioned officer in charge or a civilian (GS-4) who is chief of the pass issuing facility may be authorized to authenticate ID cards.

(1)(1) * * *

(2) The staffs of National Red Cross Societies and those of other Voluntary Aid Societies, duly recognized and authorized by their governments, who may be employed in the same duties as the personnel in subparagraph (1) of this paragraph, are placed in the same category as such personnel if the staffs of such societies are subject to military laws and regulations.

(3) The religious, medical, and hospital personnel of hospital ships and

their crews.

(4) The religious, medical, and hospital personnel assigned to the medical or spiritual care of members of the Armed Forces and other persons at sea who are wounded, sick, or ship-

wrecked, including forced landings at sea by or from aircraft.

2. Section 809.7 is amended by revising items 1a, 1b, 2b, 4, 4a, 4b, 5b, 8a, 8b, 12, 12a, 12b, 13, 13a, 13b, 17, and 17a; adding

item 19a; revising Notes 1 and 3; deleting Notes 25 and 26; and adding a new Note 25 as follows:

§ 809.7 Chart of entitlements to benefits and privileges.

***** **** *** **** **** **** ***** ****			Part		976
1.***		227	1		127
n, Lawful wife. b. Lawful husband.	Yes Yes	Yes Yes	(3)	Yes	Yes
b. Unremarried widower	Yes	Yes	Yes	No	. No
4. Honorably discharged veteran of armed forces, totally (100%) disabled as result of service-connected disability and so	No	No	(3)	Yes	Yes
certified by the Veterans Administration, a. Lawful wife	No	No No	(3)	Yes Yes	Yes Yes
b. Lawful husband	No.	140	(0)	1.00	1.08
b. Unmarried widower	No.	No	Yea	No	. No
a, Lawful wife.	Yes	Yes	(3)	Yes	Yes
b. Lawful husband	Yes.	Yes	No	Yes	Yes
12. Foreign military member of NATO in United States and	Yes	Yes	(25)	(20)	(20)
his dependents in United States: n. Lawful wife	Yes	Yes	(25)	(20)	(2)
b. Lawful husband	You.			NAME OF	. (2)
13. Foreign military member in United States other than	No	Yes	(25)	(20)	(2)
NATO and his dependents in United States: a. Lawful wife	No	(23)	(25) (25)	(20)	(2)
b. Lawful husband	No.			1	
17. Medal of Honor recipients.	No No	No No	(3)	Yes	Yee
	- CA		- 11 - 1		
a. Children who were acquired through subsequent marriage:	100	322	100	7.5	-
(1) Under 21 years of age	No No	No No	(3)	- (7)	Yes (7)
(a) A total at Journ at all at the second at				-	

Notes.—1. Adopted children and stepchildren (except for medical care), illegitimate children, parents, and parents in law must be dependent upon the member for over half of their support. Unmarried legitimate children under age 21 are not subject to dependency provisions. Red Cross Personnel: Only uniformed paid American National Red Corss Personnel are eligible for exchange privileges.

3. If a member of the sponsor's household, designated his agent in writing on DD Form 1172, item 18, and acting in the sponsor's behalf. (A sponsor's child residing in the household of a divorced spouse or other noneligible recipient who is not a sponsor may not be designated as an agent.) A parent/parent-in-law, stepparent, parent by adoption, or ward must be dependent upon the sponsor for over half of their support and reside in a household maintained by or for the sponsor. Children who are 21 years of age or older and unmarried and who are dependent upon the sponsor for over half of their support or who reside in a household maintained by or for the sponsor and who are either legitimate or are adopted children, stepchildren, or wards and who are (a) incapable of self-support because of a mental or physical handicap or (b) have not passed their 23d birthday and are enrolled in a full-time course of study at an approved inattitution of higher learning may be designated as agent. (See Part 823 of this chapter for designation of other types of agents.)

25. Officers and enlisted men of the Armed Forces of foreign nations, when on duty with the U.S. Armed Forces under competent orders issued by the Air Force, Army, Navy, or Marine Corps, and their dependents as defined in Part 823 of this chapter, if designated in writing by the sponsor on DD Form 1172, item 18.

3. Section 809.10 is amended by revising paragraphs (a) and (g) and adding new paragraphs (h) and (i) as follows:

§ 809.10 Command responsibility.

- (a) Designate and revoke verifying/ issuing activities and individuals in writing. For issuing activities, one primary and one or more alternate official(s) as considered necessary will be designated. An absence of 30 days or more by the primary issuing official will require that accountability be transferred to a new primary issuing official. The letter designating the issuing official will be furnished to the PDO with a specimen signature (DD Form 577, Signature Card) of the issuing official included. The commander of a unit geographically separated from the Unit Personnel Record Group (UPRGp) may act as the verifying activity if he has sufficient information to make an appropriate judgment.
- (g) Forward requests for waivers of conditions granting benefits and privileges direct to the Office of Primary Responsibility (OPR) for the benefit or privilege involved.
- (h) Appoint in writing an individual assigned outside the issuing activity to conduct the inventory required by section 809.15(b) (5).
- (i) Ensure that periodic, unscheduled security police checks of identification cards are conducted at entrances to Air Force installations.

4. Section 809.11 is amended by adding a new paragraph (d) (2) (iii) (f) and revising paragraph (d) (6) as follows:

§ 809.11 Action by verifying activity.

(d) (2) (iii) * * *

(f) Parents/parents-in-law.-(1) The original determination for Medical Care in Uniformed Services Facilities (MC (US)) must always be made at Air Force Accounting and Finance Center. Basic Allowance for Quarters (BAQ) determinations may not be used for MC (US).

(2) Subsequent applications may be made without submission to Air Force Accounting and Finance Center if a copy of the original AFAFC determination is present and the sponsor certifies in writing on DD Form 1172, item 18, that dependency and residency have not changed since the original determination.

- (6) Annotate on DD Form 1172, item 18, that supporting documents such as marriage certificate, birth certificate, adoption decree, divorce decree, death report, dependency determination from Air Force Accounting and Finance Center, etc., have been reviewed personally to establish eligibility of dependents. Personal data will be updated upon presentation of the source document.
- . 5. Section 809.13 is amended by revising paragraph (d) (5) as follows:

§ 809.13 Action by issuing activity.

- (d) • (5) Have issuing official sign the card. The use of facsimile signature stamps to authenticate ID cards is prohibited; however, the signature element itself may be stamped. Cards will not be authenticated by issuing official until all required data has been entered on the
- 6. Section 809.14 is amended by revising the introductory text and paragraph (a) as follows:

§ 809.14 Retrieval, confiscation, and appeal procedures.

ID cards are Government property. Any commissioned or noncommissioned officer or security policeman, in performing his duties may confiscate an ID card that has expired, is being fraudulently used, or is presented by a person not entitled to it. Civilian employees of benefit and privilege sources may confiscate expired cards, obviously altered cards, and cards presented by a person named on a "wanted list" (for example, bad checks, shoplifting, divorces, over eligible age, etc.). Such cardholders will be furnished AF Form 52, Evidential and Acquired Property Record (or similar form), as a receipt for the confiscated card. The AF Form 52 is prepared in triplicate; one copy furnished card-holder, one copy to be used as transmittal to security policy, and one copy

to be retained by the retrieving activity. When a CBPO activity learns of a change in dependency status affecting entitlement to DD Form 1173 (for example, divorce, marriage of children, overage, etc.) that activity will send complete information to the Personal Affairs Section (Officer or Airman Records Unit for non-Base-Level Military Personnel System (BLMPS) CBPOs), The Personal Affairs Section or Officer or Airman Records Unit will act to recover the dependent's card through the sponsor or his commander. If such action is unsuccessful, they will comply with paragraph (a) of this section. File evidence of such interim and final actions with the DD Form 1172. If the DD Form 1173 is retrieved, DD Form 1172 will be destroyed or appropriately annotated. A suspense period of 30 days from date of notice to the sponsor will be established for completing CBPO action.

(a) Retrieval.—Although authorities will make every effort to retrieve cards on a voluntary basis, they do not have the authority to seize ID cards by force from persons not subject to military law. If a person not subject to military law refuses to surrender an ID card on demand, recourse may be a suit to recover the property. If a card cannot be retrieved voluntarily, the circumstances will be reported in writing to the nearest chief, security police. A copy of the letter will be furnished all base benefit and privilege sources. If all attempts to achieve voluntary surrender of the ID card fail, forward the case file to Headquarters, United States Air Force, Office of the Judge Advocate General, Directorate of Civil Law, Litigation Division, Washington, D.C. 20314, for possible referral to the Department of Justice, with an information copy of the referral to the Air Force Military Personnel Center, Randolph Air Force Base, Texas 78148. Case files shall contain the following documents and information.

7. Section 809.15 is amended by revising paragraph (b) (3) and (4) and adding new paragraphs (b) (5) and (6) as follows:

§ 809.15 Supply and accountability of forms.

(b) (2) * * *

(3) Accounting for missing forms.— The issuing officer will inventory incoming blank forms when he initially accepts them and will immediately enter each card serial number on AF Form 355.

(4) Accounting for damaged forms.-The issuing officer will annotate AF Form 335 to reflect forms unsuitable for issue and retain those cards until the inventory prescribed in subparagraph (5)

of this paragraph is completed.

(5) Inventory of unissued/damaged forms.-An inventory will be conducted every 6 months or when the issuing officer is relieved. All inventories will include a physical count encompassing verification of each card serial number. If the inventorying official cannot account for a form he will investigate.

file a report of the facts with the installation commander, and note the results on AF Form 335. AF Form 145, Certificate of Destruction of Material, evidencing destruction of unused/damaged cards will be signed and witnessed then stapled to the pertinent AF Form 335. Dispose of AF Form 145 in conjunction with AF Form 335.

(6) Transfer of forms to alternate issuing official .- The primary issuing official will transfer by AF Form 213 a 1 month's supply of ID cards to each designated alternate issuing official.

8. Section 809.16 is amended by revising paragraph (a) as follows:

§ 809.16 Destruction of confiscated and surrendered cards, receipts, and destruction certificates. .

14

(a) If the destruction authority has custody of the receipts for the ID cards destroyed and the cards are not replaced by reason of discharge or separation, he will cut the cards in half and staple that portion bearing the cards serial number to the receipt. Information regarding unrecovered cards (for example, address of dependents not collocated with the sponsor) should be annotated on the pertinent receipt. In these instances, the sponsor will also be instructed to mail/ turn in dependents' unrecovered card(s) as soon as possible to the separation activity. A preaddressed indicia enve-lope will be furnished the separatee for this purpose. Related AF Form 279 and DD Form 1172 will be filed in the separatee's Relocation Preparation Project Folder for disposition. .

9. Section 809.61 is amended by revising paragraph (b) as follows:

§ 809.61 Issue by other services.

(b) The parent service will complete section IV and the applicable items of DD Form 1172, section II, and return it to the applicant/sponsor for presentation to any service installation having the proper facility for issuing the card. Every effort will be made to assist individuals of other services in obtaining proper identification credentials by assisting in the preparation of the application and directing the applicant to the nearest parent service installation. Facsimile signatures on applications verified by Navy personnel will be accepted.

10. Section 809.62 is amended by revising paragraph (a) and (c) and adding a new paragraph (b) as follows:

§ 809.62 Persons entitled to USIP card. . .

(a) Dependents 10 years of age or over of members of the Uniformed Services (on active duty, entitled to retired pay, or deceased).

(b) Dependents under 10 years of age of members of the Uniformed Services (on active duty, entitled to retired pay. or deceased) when such dependents are residing with a divorced spouse or in a household of which the sponsor is not the head. DD Form 1173 may be issued to dependents under 10 years of age when unusual circumstances require unquestionable proof of relationship and entitlement.

(c) Veterans discharged under honorable conditions from the Uniformed Services of the United States with a one hundred percent (100%) service-connected disability as certified by the Veterans Administration, their eligible dependents, and surviving dependents.

(10 U.S.C. 8012.)

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By Order of the Secretary of the Air Force.

> JOHN W. FAHRNEY, Colonel, USAF Chief, Legislative Division, Office of The Judge Advocate General.

[FR Doc.73-18576 Filed 9-4-73;8:45 am]

Title 36—Parks, Forests, and Memorials CHAPTER II—FOREST SERVICE, DEPARTMENT OF AGRICULTURE

PART 221-TIMBER

Cancellation of Contracts

Correction

NOTE.—In PR Doc. 73-18485 appearing at page 23403 of the issue for Thursday, August 30, 1973, the text of the amendment was inadvertently omitted. The complete document should read as follows:

On April 23, 1973, the Federal Register (38 FR 10010) contained a notice that the Department of Agriculture proposed to amend Part 221 of Title 36, Code of Federal Regulations, by amending § 221.17, Cancellation of Contracts.

Interested parties were given 60 days to submit written comments on the proposed amendment.

Fifteen written comments were received. Based on the information available, the proposed amendment will be changed by revising paragraph (a) (4) as set forth below; and by adding a citation of authority as set forth below.

Accordingly, with these changes and additions, the proposed revision is adopted as set forth below.

Effective date.—This amended regulation is effective on September 10, 1973.

> PAUL A. VANDER MYDE, Deputy Assistant Secretary for Conservation, Research, and Education.

AUGUST 27, 1973.

§ 221.17 Cancellation of Contracts.

- (a) Timber sale contracts and permits may be canceled:
- For serious or continued violation of their terms.
- (2) Upon application, or with the consent of, the purchaser, when such action is of advantage to the United States or not prejudicial to its interests.
- (3) Upon application of the purchaser if the value of the timber remaining to be cut is diminished materially because of

catastrophic damage caused by forces beyond the control of the purchaser resulting in (i) physical change in the sale area or access to it, or (ii) damage to timber remaining to be cut.

(4) For conviction of violation of criminal statutes or for violation of civil standards, orders, permits, or other regulations for the protection of environmental quality issued by a Federal agency, state agency, or political subdivision thereof, in the conduct of operations thereunder, on National Forest land, unless compliance with such laws or regulations would preclude performance of other contractual requirements.

(5) Upon determination by the Chief, Forest Service, that operations, thereunder would result in serious environmental degradation or resource damage.

(b) Cancellation will be by the Chief, Forest Service. Authority to cancel contracts under paragraph (a), items 1-4 of this section, may be delegated to regional foresters for sales within their authorization. All contract cancellations under paragraph (a), item (5) of this section, shall be by the Chief, Forest Service, whose decision shall be the final agency decision.

(30 Stat. 34, 35, as amended (16 U.S.C. 476,

[FR Doc.73-18485 Filed 8-29-73;8:45 am]

Title 38—Pensions, Bonuses, and Veterans' Relief

CHAPTER I—VETERANS ADMINISTRATION

PART 21—VOCATIONAL REHABILITATION AND EDUCATION

Veterans' Educational Assistance; Entitlement Charges

On page 19417 of the Federal Register of July 20, 1973, there was published a notice of proposed regulatory development to amend § 21.1045 to provide for charging of entitlement proportionately to the educational assistance or training allowance paid when a reduction in the monthly allowance was required due to excessive absences. Interested persons were given 30 days in which to submit comments, suggestions, or objections regarding the proposed regulation.

No written objections have been received and the proposed regulation is hereby adopted without change and is set forth below.

Effective date.—This VA regulation is effective August 29, 1973.

Approved August 29, 1973.

By direction of the Administrator.

SEAL FRED B. RHODES,

Deputy Administrator.

In § 21.1045(a), subparagraph (6) is added to read as follows:

§ 21.1045 Entitlement charges.

(a) Residence courses * * *

(6) Excessive absences and less than full payment for job training.—Where deductions are made throughout an en-

rollment period, the combined portions of a month for which deductions were made will be computed and no entitlement charge will be made for the combined deductions. Where the computation results in a period of time other than a full month, or other than exactly %, ½ or ¼ fractional part of a month, the figure will be raised to the next higher quarter fraction of a month.

[FR Doc.73-18717 Filed 9-4-73;8:45 am]

Title 43-Public Lands: Interior

SUBTITLE A—OFFICE OF THE SECRETARY OF THE INTERIOR

PART 4—DEPARTMENT HEARINGS AND APPEALS PROCEDURES

Mine Health and Safety Hearings and Appeals

Incident to the establishment within the Department of the Interior of the Mining Enforcement and Safety Administration and the transfer to it of functions of the Bureau of Mines relating to, inter alia, mining health and safety and assessment and compliance under the Federal Coal Mine Health and Safety Act of 1969 (P.L. 91-173, 30 U.S.C. secs. 801-960) and the Federal Metal and Nonmetallic Mine Safety Act (P.L. 89-577, 30 U.S.C. secs. 721-740), by Secretarial Order No. 2953, notice of which was published in the FEDERAL REGISTER on July 13, 1973 (38 FR 18695-18696), the following amendments are made to regulations in Subpart F-Special Rules Applicable to Mine Health and Safety Hearings and Appeals, of Part 4—Department Hearings and Appeals Procedures, Title 43, Code of Federal Regulations, to provide necessary changes in nomenclature to conform with the Secretarial Order:

In the sections specified below, the words "Bureau" and "Bureau of Mines" are deleted wherever they appear, and the words "Mining Enforcement and Safety Administration" are substituted therefor:

Secs. 4.506(e) 4.507(a) (1), 4.507(a) (2) 4.508(c) 4.520 4.521 4.531 4.540(a), 4.544(b) 4.544(a) 4.545 4.587 4.661 4.662 4.661 4.663(a)

Since these amendments are made because of internal Department organization and practice, the prior notice and public procedure provisions of 5 U.S.C. sec. 553 are inapplicable, and the amendments shall be effective as of July 16, 1973, the date on which the Mining En-

forcement and Safety Administration became operative.

Dated August 29, 1973.

JAMES T. CLARKE, Assistant Secretary of the Interior. [FR Doc.73-18684 Filed 9-4-73;8:45 am]

Title 49-Transportation

CHAPTER V—NATIONAL HIGHWAY TRAF-FIC SAFETY ADMINISTRATION, DE-PARTMENT OF TRANSPORTATION

[Docket No. 73-9; Notice 2]

PART 570—VEHICLE IN USE INSPECTION STANDARDS

This notice adds Part 570, Vehicle In Use Inspection Standards, to Chapter V, Title 49, Code of Federal Regulations.

Part 570 does not in itself impose requirements on any person. It is intended to be implemented by the States through the highway safety program standards issued under the Highway Safety Act (23 U.S.C. 402) with respect to inspection of motor vehicles with a gross vehicle weight rating of 10,000 pounds or less, except motorcycles and trailers. General provisions regarding vehicle inspection are set forth in NHTSA Highway Safety Program Manual Vol. 1, Periodic Motor Vehicle Inspection. Standards and procedures are adopted for hydraulic service brake systems, steering and suspension systems, tire and wheel assemblies.

Interested persons have been afforded an opportunity to participate in the making of these amendments by a notice of proposed rulemaking published in the Pederal Register on April 2, 1973 (38 PR 8451), and due consideration has been given to all comments received in response to the notice, insofar as they relate to matters within the scope of the notice. Except for editorial changes, and except as specifically discussed herein, these amendments and the reasons therefore are the same as those contained in the notice.

Policy considerations.—A total of 120 comments were received in response to the notice. These comments were submitted by State motor vehicle agencies, national safety organizations, motor vehicle associations, vehicle and equipment manufacturers, antique car clubs and owners, public interest groups, and individual citizens. The commenters were predominantly in favor of periodic motor vehicle inspection (PMVI) and the establishment of uniform motor vehicle in use safety standards throughout the United States.

As the NHTSA stated in the prior notice, cost-benefit factors were the primary policy consideration in developing the inspection standards and procedures. The primary concern of the States was the socioeconomic impact on the motoring public as well as the impact on the State itself. The general consensus was that the proposed inspection requirements would require a significant increase in facilities, operating personnel, and equipment. Though cost effectiveness was a predominant concern the

States nevertheless felt that inspections should include vehicles over 10,000 pounds gross vehicle weight and be extended to include other vehicle systems. Several States expressed concern for the cost of implementing the proposed standards, estimating it at from \$10 to \$14 per car. Even though these States favored PMVI and now have PMVI or random inspection they felt that implementation costs would have a decided economic impact.

NHTSA has responded to these comments allowing an optional road test as a check of service brake system performance, adopting neither of the proposed parking brake procedures, and simplifying test procedures where possible so that tests may be conducted with a minimum added expenditure for equipment, personnel, and facilities. These matters will be discussed subsequently.

The establishment of the proposed standards as "minimum requirements" was questioned by several States as leading to a "watering down" of current requirements in those States which currently meet or exceed them. The NHTSA repeats its intent that the standards are not intended to supplant State standards that establish a higher performance or to discourage them from establishing or maintaining standards for other vehicle systems not covered by NHTSA.

A number of comments were received from antique car clubs and individual owners who believe that antique, special interest, and vintage cars should be exempt from the proposed standards. These comments should be directed to the States. Each State has its own definitions and registration requirements for vehicles of this nature, and the NHTSA intends the States to implement Part 570 to the extent that it is compatible with its current requirements for these special vehicles.

Several respondents commented that the proposed standard should be expanded to include lighting, glazing, exhaust, wipers, horns, controls, and instrumentation systems. The consensus was that the cost-benefit ratio would materially increase if these systems were included in the proposed standard since inspection of these systems does not require time-consuming procedures or special tools, and corrective measures are less costly to the owner. Some considered it contradictory that safety systems covered by the Federal standards must meet safety performance requirements at the time of manufacture and not during the service life of the vehicle. As the NHTSA stated in the prior notice, the initial Federal effort is intended to cover those vehicles and vehicle systems whose maintenance in good order has proven critical to the prevention of traffic accidents. Requirements for motorcycles and trailers, and for less critical systems are under study, and the NHTSA intends to take such rulemaking action in the future as may be appropriate to cover them.

Applicability.—A frequent comment was that the standards and procedures should be extended to cover vehicles

whose GVWR exceeds 10,000 pounds. Because braking and steering and suspension systems on these vehicles differ materially from those on lighter vehicles, different criteria must be established and the proposed standards simply cannot be extended to cover them. The NHTSA, however, is developing appropriate inspection standards and procedures for heavy vehicles and will propose them in a notice to be issued by mid-October 1973.

Brake systems.—Several comments were received questioning the procedure for determining operability of the brake failure indicator lamp. In some vehicles the parking brake indicator and service brake system failure indicator use the same lamp and the methods of simulating failure vary.

It is realized that the procedure specified by the standard is general in nature and cannot cover all possible systems. In those vehicles where a lamp test cannot be executed in the normal manner the test will have to be conducted in accordance with the manufacturer's specifications, as determined by the vehicle inspector.

The brake system integrity test for fluid leakage has been modified on the basis of comments that it was not stringent enough. It was proposed that decrease in pedal height under 125 pounds force for 10 seconds should not exceed one-quarter of an inch. The requirement adopted is that there be no perceptible decrease in pedal height when 125 pounds of force is applied to the brake pedal and held for 30 seconds.

The brake pedal reserve test has been adopted substantially as proposed, and specifies that the engine be operating at the time of the test. Vehicles with full power (central hydraulic) brake systems are exempted from this test as the service brake performance test will be adequate to test such systems.

The service brake performance test offers the option of a road test, or testing upon a drive-on platform or roller-type brake analyzer (originally proposed under the title "Brake equalization"). States that conduct random inspections, and those that designate agents to perform vehicle inspections, objected strenuously to a test requiring the use of roller-type or drive-on test equipment. Consequently, an alternate test has been adopted which requires vehicles to stop from 20 mph in 25 feet or less without leaving a 12-foot wide lane. It is intended that this option be used only by States where it is current practice, and it is hoped that such States where practicable will change to the drive-on brake platform or roller-type brake analyzer tests. The terms "crimped" and "damaged" have been eliminated as causes for rejection of brake hoses, as redundant. If brake discs and drums are not embossed with safety tolerances, the requirement has been added that they be within the manufacturer's recommended specifications.

The primary concern regarding power assist units was that the brake pedal will rise instead of falling on a full-power

brake system when tested according to the procedure proposed. In view of the basic design of a full-power brake system this test would not be a proper check of system operation, and will not be required. As noted earlier, the service brake performance test will be used as the primary test of the full-power brake performance. To accord with the terminology of Standard No. 105a this section has been renamed "Brake power units."

The parking brake system inspection proposal proved controversial. NHTSA proposed two objective, alternate tests, the first requiring the system to hold the vehicle on a 17 percent grade, and the second requiring the system to stop the vehicle from 20 mph within 54 feet. The first was objected to principally on the ground that each inspection station would have to construct a 17 percent grade. This would present problems for both in-line and bay-type inspection facilities. The stopping distance test, on the other hand, was opposed as a dynamic test more appropriate for service brake evaluation. In view of these objections, the parking brake inspection requirements were not adopted.

Steering and suspension systems.—The primary objections to the steering wheel test for free play concerned the test condition with the engine off on vehicles equipped with power steering, the linear measure of system free play (instead of angular measure to eliminate the variance due to steering wheel diameters), and the 2 inch free play limit for rack and pinion type steering gear.

The tolerance proposed and adopted for steering wheel free play is 2 inches for wheels of 16 inches diameter or less, since few passenger car steering wheels exceed this diameter. However, a table of free play values for older vehicles with steering wheels over 16 inches in diameter has been added to the standard. The requirement to have the engine running is being added to the procedure since steering wheel play can be greater with the engine off than with the engine on for cars equipped with power steering. Steering play on cars equipped with rack and pinion type steering will require further review to determine if the 2 inch tolerance should be changed.

Some comments argued that wheel alignment tolerances were considered too restrictive in the toe-in condition, and too lenient in toe-out. Some comments recommended visual inspection of tire wear as criteria to determine alignment. However, visual inspection of tire wear is not considered a valid method of checking alignment, and therefore was not adopted as an alternate method. No consensus of alternative values could be derived from the comments, and the proposed tolerances of 30 feet per mile have been adopted.

The requirements for the condition of shock absorber mountings, shackles, and U-bolts have been changed from "tight" to "securely attached" as a clarification.

Tire and wheel assembly standards and inspection procedures.—Several com-ments were received suggesting that rim

deformation in excess of one-sixteenth of an inch be permitted, as the proposed tolerance would result in rejection of otherwise safe vehicles. The primary concern of the requirement is air retention, and since vehicles with wheel deformation of one-sixteenth of an inch apparently perform satisfactorily in service without hazard the deformation tolerance has been increased to three thirty-seconds of an inch runout for both lateral and radial bead seat areas.

Effectivity.-Several commenters questioned the proposed effective date, 30 days after publication of the final rule. The NHTSA considers it in the public interest that minimum Federal standards for motor vehicles in use become effective without further delay. Implementation by the States will take place within the context of their highway safety programs, and the plans approved by the NHTSA under the Highway Safety Act, 23 U.S.C. 402.

In consideration of the foregoing, Title 49, Code of Federal Regulations is amended by adding Part 570 to read as set forth below.

Effective date.-September 28, 1973. Since this part does not in itself impose requirements on any person it is determined for good cause shown that an effective date earlier than 180 days after publication of the final rule is in the public interest.

(Secs. 103, 108, 119, Pub. L. 89-563, 80 Stat. 718, 15 U.S.C. 1392, 1397, 1407; delegation of authority at 49 CFR 1.51.)

Issued on August 29, 1973.

JAMES B. GREGORY. Administrator.

Scope. Purpose.
Applicability. 570.2 570.3 570.4 Definitions. 570.5 Service brake system. 570.6 Brake power unit. 570.7 Steering systems. Suspension systems. 570.8 570.9 Tires. 570.10 Wheel assemblies.

AUTHORITY: Secs. 103, 108, 119, Public Law 89-563, 80 Stat. 718, 15 U.S.C. 1392, 1397, 1407; delegation of authority at 49 CFR 1.51.

Scope.

570.1

This part specifies standards and procedures for inspection of hydraulic service brake systems, steering and suspension systems, and tire and wheel assemblies of motor vehicles in use.

§ 570.2 Purpose.

The purpose of this part is to establish criteria for the inspection of motor vehicles by State inspection systems, in order to reduce death and injuries attributable to failure or inadequate performance of motor vehicle systems.

§ 570.3 Applicability.

This part does not in itself impose requirements on any person. It is intended to be implemented by States through the highway safety program standards issued under the Highway Safety Act (23 U.S.C. 402) with respect to inspection of

motor vehicles with gross vehicle weight rating of 10,000 pounds or less, except motorcycles or trailers.

§ 570.4 Definitions.

Unless otherwise indicated, all terms used in this part that are defined in 49 CFR Part 571, Motor Vehicle Safety Standards, are used as defined in that part.

§ 570.5 Service brake system.

(a) Failure indicator.-The brake system failure indicator lamp, if part of a vehicle's original equipment, shall be operable. (This lamp is required by Federal Motor Vehicle Safety Standard No. 105, 49 CFR 571.105, on every new passenger car manufactured on or after January 1, 1968, and on other types of motor vehicles manufactured on or after September 1, 1975.)

(i) Inspection procedure.-Apply the parking brake and turn the ignition to start, or verify lamp operation by other means indicated by the vehicle manufacturer that the brake system failure

indicator lamp is operable.

(b) Brake system integrity.-The brake system shall demonstrate integrity as indicated by no perceptible decrease in pedal height under a 125 pound force applied to the brake pedal or by no illumination of the brake system fallure indicator lamp. The brake system shall withstand the application of force to the pedal without failure of any line or other part.

(i) Inspection procedure.-With the engine running on vehicles equipped with power brake systems, and the ignition turned to "on" in other vehicles, apply a force of 125 pounds to the brake pedal and hold for 30 seconds. Note any decrease in pedal height, and whether the lamp illuminates.

(c) Brake pedal reserve.-When the brake pedal is fully depressed, the distance that the pedal has traveled from its free position shall be not greater than 80 percent of the total distance from its free position to the floorboard or other object that restricts pedal travel.

(i) Inspection procedure.-Measure the distance (i) from the free pedal position to the floorboard or other object that restricts brake pedal travel. Depress the brake pedal, and with the force applied measure the distance (ii) from the depressed pedal position to the floorboard or other object that restricts pedal travel. Determine the percentage as

$$\frac{A-B}{A} \times 100.$$

The engine must be operating when power-assisted brakes are checked. The pedal reserve check is not required for vehicles equipped with full-power (central hydraulic) brake systems, or to vehicles with brake systems designed to operate with greater than 80 percent pedal travel.

(d) Service brake performance.-Compliance with one of the following performance criteria will satisfy the requirements of this section. Verify that tire inflation pressure is within the limits rec-

ommended by vehicle manufacturer before conducting either of the following tests.

(1) Roller-type or drive-on platform tests.-The force applied by the brake on a front wheel or a rear wheel shall not differ by more than 20 percent from the force applied by the brake on the other front wheel or the other rear wheel respectively.

(i) Inspection procedure.—The vehicle shall be tested on a drive-on platform, or a roller-type brake analyzer with the capability of measuring equalization. The test shall be conducted in accordance with the test equipment manufacturer's specifications. Note the left to right brake force variance.

(2) Road test.-The service brake system shall stop the vehicle in a distance of 25 feet or less from a speed of 20 miles per hour without leaving a 12-foot-wide

lane.

- (1) Inspection procedure.—The road test shall be conducted on a level (not to exceed plus or minus one percent grade) dry, smooth, hard-surfaced road that is free from loose material, oil, or grease. The service brakes shall be applied at a vehicle speed of 20 miles per hour and the vehicle shall be brought to a stop as specified. Measure the distance required to stop.
- (e) Brake hoses and assemblies .-Brake hoses shall not be mounted so as to contact the vehicle body or chassis. Hoses shall not be cracked, chafed, or flattened.
- (i) Inspection procedure.—Examine visually, inspecting front brake hoses through all wheel positions from full left to full right for conditions indicated.

Note.-To inspect for (f), (g), and (h) below, remove at a minimum one front wheel and one rear wheel.

- (f) Disc and drum condition.-If the drum is embossed with a maximum safe diameter dimension or the rotor is embossed with a minimum safety thickness dimension, the drum or disc shall be within the appropriate specifications. These dimensions will be found on motor vehicles manufactured since January 1. 1971, and may be found on vehicles manufactured for several years prior to that time. If the drums and discs are not embossed, the drums and discs shall be within the manufacturer's specifications.
- (i) Inspection procedure.—Examine visually for condition indicated, measuring as necessary.
- (g) Friction materials.—On brake the thickness of the lining or pad shall not be less than one thirty-second of an inch over the rivet heads, or the brake shoe on bonded linings or pads. Brake linings and pads shall not have cracks or breaks that extend to rivet holes except minor cracks that do not Impair attachment. Drum brake linings shall be securely attached to brake shoes. Disc brake pads shall be securely attached to shoe plates.
- (i) Inspection procedure.—Examine visually for conditions indicated, and measure height of rubbing surface of lining over rivet heads. Measure bonded lin-

ing thickness over shoe surface at the jamming in the steering gear mechthinnest point on the lining or pad.

(h) Structural and mechanical parts.—Backing plates and caliper as-semblies shall not be deformed or cracked. System parts shall not be broken, misaligned, missing, binding, or show evidence of severe wear. Automatic adjusters and other parts shall be assembled and installed correctly.

(i) Inspection procedure.—Examine visually for conditions indicated.

§ 570.6 Brake power unit.

Vacuum hoses shall not be collapsed, abraded, broken, improperly mounted, or audibly leaking. With residual vacuum exhausted and a constant 25 pound force on the brake pedal, the pedal shall fall slightly when the engine is started, demonstrating integrity of the power assist system. This test is not applicable to vehicles equipped with full power brake system as the service brake performance test shall be considered adequate test of system performance.

(i) Inspection procedure.-With engine running, examine hoses visually and aurally for conditions indicated. Stop engine and apply service brakes several times to destroy vacuum in system. Depress brake pedal with 25 pounds of force and while maintaining that force, start the engine. If brake pedal does not fall slightly under force when the engine starts, there is a malfunction in the power assist system.

§ 570.7 Steering systems.

(a) System play.-Lash or free play in the steering system shall not exceed values shown in Table 1.

(i) Inspection procedure.-With the engine on and the wheels in the straight ahead position, turn the steering wheel in one direction until there is a perceptible movement of a front wheel. If a point on the steering wheel rim moves more than the value shown in Table 1 before perceptible return movement of the wheel under observation, there is excessive lash or free play in the steering system.

TABLE 1.—STEERING SYSTEM PREE PLAY VALUES

			(inches	inch	ash es)
18				 - 8	21/4
22					234

(b) Linkage play.-Free play in the steering linkage shall not exceed onequarter of an inch.

(i) Inspection procedure.- Elevate the front end of the vehicle to load the ball joints. Insure that wheel bearings are correctly adjusted. Grasp the front and rear of a tire and attempt to turn the tire and wheel assembly left and right. If the free movement at the front or rear tread of the tire exceeds one-quarter inch there is excessive steering linkage play.

Free turning.—Steering wheels shall turn freely through the limit of travel in both directions.

(i) Inspection procedure.-Turn the steering wheel through the limit of travel in both directions. Feel for binding or anism.

(d) Alignment.-Toe-in and toe-out shall not exceed 30 feet per mile, as recorded on a scuff gauge, or equivalent measuring device.

(i) Inspection procedure.-Use instructions of measuring device manufac-

turer.

(e) Power steering system.-The power steering system shall not have cracked or slipping belts, or insufficient fluid in the reservoir.

(i) Inspection procedure.—Examine fluid reservoir and pump belts for conditions indicated.

§ 570.8 Suspension system.

(a) Suspension condition.—Ball joint seals shall not be cut or cracked. Structural parts shall not be bent or damaged. Stabilizer bars shall be connected. Springs shall not be broken, or extended by spacers. Shock absorber mountings, shackles, and U-bolts shall be securely attached. Rubber bushings shall not be cracked, extruded out from or missing from suspension joints. Radius rods shall not be missing or damaged.

(i) Inspection procedure.—Examine front and rear end suspension parts for

conditions indicated.

(b) Shock absorber condition.-There shall be no oil on the shock absorber housing attributable to leakage by the seal, and the vehicle shall not continue free rocking motion for more than two cycles.

(i) Inspection procedure.-Examine shock absorbers for oil leaking from within, then with vehicle on a level surface, push down on one end of vehicle and release. Note number of cycles of free rocking motion. Repeat procedure at other end of vehicle.

\$ 570.9 Tires.

(a) Tread depth.-The tread on each tire shall be not less than two thirtyseconds of an inch deep.

(i) Inspection procedure.—Passenger car tires have tread depth indicators that become exposed when tread depth is less than two thirty-seconds of an inch. Inspect for indicators in any two adjacent major grooves at three locations spaced approximately equally around the outside of the tire. For vehicles other than passenger cars, it may be necessary to measure tread depth with a tread gauge.

(b) Type. - Vehicles should equipped with tires on the same axle that are matched in nominal size, con-

struction, and profile.

(i) Inspection procedure.—Examine visually. A major mismatch in nominal size, construction, and profile between tires on the same axle, or a major deviation from the size as recommended by the manufacturer (e.g. as indicated on the glove box placard on 1968 and later passenger cars) are causes for rejection.

(c) General condition .- Tires shall be free from chunking, bumps, knots, or bulges evidencing cord, ply, or tread separation from the casing or other adjacent materials.

(i) Inspection procedure.-Examine visually for conditions indicated.

(d) Damage.-Tire cords or belting materials shall not be exposed, either to the naked eye or when cuts or abra-

sions on the tire are probed.

(i) Inspection procedure.—Examine visually for conditions indicated, using an awl if necessary to probe cuts or abrasions.

§ 570.10 Wheel assemblies.

(a) Wheel integrity.—A tire rim, wheel disc, or spider shall have no visible cracks, elongated bolt holes, or indication of repair by welding.

(i) Inspection procedure.—Examine

visually for conditions indicated.

(b) Deformation.-The lateral and radial runout of each rim bead area shall not exceed three thirty-seconds of an inch total indicated runout.

(i) Inspection procedure,-Using runout indicator gauge, and a suitable stand, measure lateral and radial runout of rim bead through one full wheel revolution and note runout in excess of three thirty-seconds of an inch.

(c) Mounting .- All wheel nuts and

bolts shall be in place and tight.

Inspection procedure.-Check (1) wheel retention for conditions indicated.

[FR Doc.73-18720 Filed 9-4-73;8:45 am]

CHAPTER X-INTERSTATE COMMERCE COMMISSION

SUBCHAPTER A-GENERAL RULES AND REGULATIONS

[Service Order 1104; Amdt. 7]

PART 1033-CAR SERVICE Penn Central Transportation Co.

At a session of the Interstate Commerce Commission, Rallroad Service Board, held in Washington, D.C., on the 27th day of August 1973.

Upon further consideration of Service Order No. 1104, (37 FR 15307, 22986; 38 FR 3512, 8445, 14754, 18024, and 20621),

and good cause appearing therefor: It is ordered, That: Section 1033.1104 Service Order No. 1104 (Penn Central Transportation Company, George P. Baker, Richard C. Bond, and Jervis Langdon, Jr., Trustees, authorized to operate over tracks of the Erie Lackawanna Railway Company) be, and it is hereby, amended by substituting the following (e) for paragraph paragraph thereof:

(e) Expiration date.-The provisions of this order shall expire at 11:59 p.m., October 31, 1973, unless otherwise modified, changed, or suspended by order of this Commission.

Effective date.—This amendment shall become effective at 11:59 p.m., August 31, 1973.

(Secs. 1, 12, 15, and 17(2), 24 Stat. 379, 383, 384, as amended; 49 U.S.C. 1, 12, 15, and 17(2). Interprets or applies Secs. 1(10-17), 15(4), and 17(2), 40 Stat. 101, as amended, 54 Stat. 911; 49 U.S.C. 1(10-17), 15(4), and 17(2).)

It is further ordered, That a copy of this amendment shall be served upon the Association of American Railroads, Car Service Division, as agent of all railroads subscribing to the car service and car hire agreement under the terms of that agreement, and upon the Ameri-can Short Line Railroad Association; and that notice of this amendment be given to the general public by depositing a copy in the Office of the Secretary of the Commission at Washington, D.C., and by filing it with the Director, Office of the Federal Register.

By the Commission, Railroad Service Board.

[SEAL]

ROBERT L. OSWALD, Secretary.

[FR Doc.73-18752 Filed 9-4-73;8:45 am]

[Rev. S.O. 1110-A]

PART 1033-CAR SERVICE Penn Central Transportation Co.

At a session of the Interstate Com-Commission, Railroad Service Board, held in Washington, D.C., on the 27th day of August 1973.

Upon further consideration of Revised Service Order No. 1110 (37 FR 19616, 22871, 23236; 38 FR 878, 3333, 5636, 8446, 10942, 14755, 18025, and 20621), and good cause appearing therefor:

It is ordered, That:

§ 1033.1110 [Reserved]

Section 1033.1110 Service Order No. 1110, (Penn Central Transportation Company, George P. Baker, Richard C. Bond, and Jervis Langdon, Jr., Trustees, required to restore service at the Button-Pennsylvania, (Wilkes-Barre). wood Gateway and to reroute traffic originally routed via that gateway) be, and it is hereby vacated and set aside.

(Secs. 1, 12, 15, and 17(2), 24 Stat. 379, 383 384, as amended; 49 U.S.C. 1, 12, 15, and 17 (2). Interprets or applies Secs. 1(10-17), 15 (4), and 17(2), 40 Stat. 101, as amended, 54 Stat. 911; 49 U.S.C. 1(10-17), 15(4), and 17(2).)

It is further ordered, That this order shall become effective at 12:01 a.m., September 1, 1973; that copies of order and direction shall be served upon the Association of American Railroads, Car Service Division, as agent of the railroads subscribing to the car service and car hire agreement under the terms of that agreeement, and upon the American Short Line Railroad Association; and that notice of this order shall be given to the general public by depositing a copy in the Office of the Secretary of the Commission at Washington, D.C., and by filing it with the Director, Office of the Federal Register.

By the Commission, Railroad Service Board.

ROBERT L. OSWALD, [SEAL] Secretary.

[FR Doc.73-18753 Filed 9-4-73;8:45 am]

[S.O. 1118; Amdt. 1]

PART 1033-CAR SERVICE Providence and Worcester Co.

At a session of the Interstate Commerce Commission, Division 3, held in Washington, D.C., on the 28th day of August 1973.

Upon further consideration of Service Order No. 1118 (38 FR 2761), and good

cause appearing therefor: It is ordered, That:

Section 1033.1118 Service Order No. 1118 (Providence and Worcester Company authorized to operate over tracks of Penn Central Transportation Company, George P. Baker, Richard C. Bond, and Jervis Langdon, Jr., trustees; Penn Transportation Company, Central George P. Baker, Richard C. Bond, and Jervis Langdon, Jr., trustees, authorized to operate over tracks of Providence and Worcester Company) be, and it is hereby, amended by substituting the following paragraph (g) for paragraph (g) thereof:

(g) Expiration date.-This order shall expire at 11:59 p.m., February 3, 1974. unless otherwise modified, changed, or suspended by order of this Commission.

Effective date.—This amendment shall become effective at 11:59 p.m., August 31, 1973.

(Secs. 1, 12, 15, and 17(2), 24 Stat. 379, 383, 384, as amended; 49 U.S.C. 1, 12, 15, and 17(2). Interprets or applies Secs. 1(10-17), 15(4), and 17(2), 40 Stat. 101, as amended, 54 Stat. 911; 49 U.S.C. 1(10-17), 15(4), and 17(2).)

It is further ordered, That a copy of this amendment shall be served upon the Association of American Railroads, Car Service Division, as agent of the railroad subscribing to the car service and car hire agreement under the terms of that agreement, and upon the American Short Line Railroad Association; and that notice of this amendment shall be given to the general public by depositing a copy in the Office of the Secretary of the Commission at Washington, D.C., and by filing it with the Director, Office of the Federal Register.

By the Commission, Division 3.

ROBERT L. OSWALD, [SEAL] Secretary.

[FR Doc.73-18750 Filed 9-4-73;8:45 am]

[S.O. 1122, Amdt. 1]

PART 1033-CAR SERVICE Texas Export Railroad Co.

At a session of the Interstate Commerce Commission, Railroad Service Board, held in Washington, D.C., on the 23d day of August 1973.

Upon further consideration of Service Order No. 1122 (38 FR 4667), and good

cause appearing therefor: It is ordered, That:

Section 1033.1122 Service Order No. 1122, the Texas Export Railroad Company authorized to operate over tracks abandoned by Chicago, Rock Island and pacific Railroad Company be, and it is hereby, amended by substituting the following paragraph (f) for paragraph (f) thereof:

(f) Expiration date.—The provisions of this order shall expire at 11:59 p.m., October 31, 1973, unless otherwise modified, changed, or suspended by order of this Commission.

Effective date.—This amendment shall become effective at 11:59 p.m., August 31,

(Secs. 1, 12, 15, and 17(2), 24 Stat. 379, 383, 384, as amended; 49 U.S.C. 1, 12, 15, and 17(2), Interpreta or applies Secs. 1(10-17), 15(4), and 17(2), 40 Stat. 101, as amended, 54 Stat. 911; 49 U.S.C. 1(10-17), 15(4), and 17(2),

It is further ordered, That a copy of this amendment, shall be served upon the Association of American Railroads, Car Service Division, as agent of all railroads subscribing to the car service and car hire agreement under the terms of that agreement, and upon the American Short Line Railroad Association; and that notice of this amendment be given to the general public by depositing a copy in the Office of the Secretary of the Commission at Washington, D.C., and by filing it with the Director, Office of the Federal Register.

By the Commission, Railroad Service Board.

[SEAL] JOSEPH M. HARRINGTON, Acting Secretary.

[FR Doc.73-18751 Filed 9-4-73;8:45 am]

SUBCHAPTER B—PRACTICE AND PROCEDURE [Ex Parte No. 275]

PART 1115—ISSUANCE OF SECURITIES, ASSUMPTION OF OBLIGATIONS, AND FILING OF CERTIFICATES AND REPORTS

Expanded Definition of "Securities"

At a general session of the Interstate Commerce Commission, held at its office in Washington, D.C., on the 16th day of August 1973.

It appearing, that the Commission, on the date hereof, has made and filed its report in this proceeding upon further consideration setting forth its conclusions and findings and its reasons therefore, which report is hereby referred to and made a part hereof; and

It further appearing, that since the proposed amendments to existing regulations relate to matters of practice and procedure resulting from the herein proceeding, further notice and public proceedings under 5 U.S.C. 533 are not necessary and good cause exists for makotherwise employed by a carrier, and as additionally including, but not being limited to, loan agreements, credit agreeing the amendments effective within 60 days after publication thereof in the

FEDERAL REGISTER:

It is ordered, That the term "securities" as found in section 20a of the Interstate Commerce Act be henceforth interpreted as including, among other things, all agreements creating a present or future interest in or indebtedness of a carrier, or in property owned, leased or ments, mortgages, chattel mortgages, advances, deeds of trust, equipment trusts, security agreements, purchase agreements whose terms do not provide for full payment of the purchase price at consummation and leases of operating property or real property, but shall not at this time be interpreted to include agreements entered into for the sole purpose of acquiring motor carrier operating property;

It is further ordered, That Part 1115 of Subchapter B of Chapter X of Title 49 of the Code of Federal Regulations be, and it is hereby, amended by adding new material 1 to Form BF-6, referred to in \$ 1115.1:

It is further ordered, That this order shall become effective on October 23, 1973.

And it is further ordered, That notice of this order shall be given to the general public by depositing a copy of this notice in the Office of the Secretary of this Commission at Washington, D.C., and by filing a copy with the Director, Office of the Federal Register.

By the Commission.

[SEAL] ROBERT L. OSWALD, Secretary

[FR Doc.73-18749 Filed 9-4-73;8:45 am]

Title 10—Atomic Energy CHAPTER I—ATOMIC ENERGY COMMISSION

PART 110—UNCLASSIFIED ACTIVITIES IN FOREIGN ATOMIC ENERGY PROGRAMS

Information on Production of Special Nuclear Material

The Atomic Energy Commission hereby announces amendments to its regulation in 10 CFR, Part 110, which are intended to broaden the general authorization contained therein to include the furnishing to recipients everywhere of unclassified information pertaining to the production of special nuclear material which is (1) published, or (2) contained in certain patent applications, or (3) unpublished, provided That such unpublished information will be made available to the public within 60 days after the furnishing thereof.

Pursuant to section 4 of the Administrative Procedure Act (5 U.S.C. 553), the Commission has found that good cause exists for making this amendment effective without the customary 30-day

notice period. Accordingly, pursuant to the Atomic Energy Act of 1954, as amended, and sections 552 and 553 of Title 5 of the United States Code, the following amendment to Title 10, Chapter I, Code of Federal Regulations, Part 110 is published as a document subject to codification to be effective on September 5, 1973.

 Section 110.7(b) of 10 CFR Part 110, is amended to read as follows:

§ 110.7 Generally authorized activities.

(b) Pursuant to section 57(b) (2) of the Act, the Atomic Energy Commission has determined that any activity not generally authorized pursuant to paragraph (a) of this section, which constitutes directly or indirectly engaging in the production of any special nuclear material outside of the United States, will not be inimical to the interest of the United States, and is authorized by the Atomic Energy Commission, provided that it:

Does not involve the communication of Restricted Data or other classified defense information; and

(2) Is not in violation of other pro-

visions of law; and either

(3) Is limited to participation in (i) meetings of or conferences sponsored by educational institutions, laboratories, scientific or technical organizations; (ii) international conferences held under the auspices of a nation or group of nations; or (iii) exchange programs approved by the Department of State; or

(4) Is limited to the furnishing of information which is available to the public in published form or which will be made available to the public in published form within 60 days after the furnishing thereof.

2. The footnote (1) to 10 CFR 110.7 is amended to read as follows:

¹ For purposes of this section, "information which is available to the public in published form" shall include, but not be limited to, any information contained in an application filed in accordance with the regulations of the U.S. Patent Office and eligible for foreign filing under 35 U.S.C. sec. 184. In addition, information which is available from the Commission pursuant to 5 U.S.C. sec. 552 shall, for purposes of this section, be deemed to be information available to the public in published form.

(Secs. 57, 161, 68 Stat. 932, 948, as amended, (42 U.S.C. 2077, 2201); for the purposes of sec. 223, 69 Stat. 958, as amended, (42 U.S.C. 2273); \$\frac{1}{2}\$ 110.10 and 110.11 issued under sec. 161.0, 68 Stat. 950, as amended, (42 U.S.C. 2201[0]).)

Dated at Germantown, Md., this 29th day of August 1973.

For the Atomic Energy Commission.

Gordon M. Grant, Acting Secretary of the Commission. [FR Doc.73-18935 Filed 9-4-73;11:00 am]

¹ Filed as part of the original document.

Proposed Rules

This section of the FEDERAL REGISTER contains notices to the public of the proposed issuance of rules and regulations. The purpose of these notices is to give interested persons an opportunity to participate in the rulemaking prior to the adoption of the final rules.

DEPARTMENT OF THE TREASURY § 141.61 Completion of entry papers.

Customs Service

[19 CFR Parts 24 and 141]

IDENTIFICATION AND IMPORTER NUMBERS

Proposed Amendment To Require Importers of Record and Ultimate Consignees To File for an Importer's Identification Number and To Submit This Number With All Consumption Entries

Notice is hereby given that under the authority of Revised Statute 251, as amended, sections 484, 624, 46 Stat. 722, as amended, 759; 5 U.S.C. 301, 19 U.S.C. 66, 1484, and 1624, it is proposed to amend sections 24.5(a) and 141.61(d) of the Customs regulations to require importers of record and ultimate consignees to file for an importer's identification number and to submit this number with all consumption entries.

Under the present regulations, the importer of record and ultimate consignee must file with the first dutiable formal entry or first request for service resulting in a bill or refund check, an application for an importer's number on Customs Form 5106 (section 24.5 (a)) and must furnish this number on Customs Form 5101 (section 141.61(d)) with each dutiable consumption entry. The importer's number is necessary to permit identification of the importer of record or ultimate consignee of merchandise.

At present, the importer of record or ultimate consignee of free merchandise is not required to file the aforemen-tioned information. The proposed amendment requires these numbers for free as well as dutiable consumption entries.

Accordingly, it is proposed to amend paragraph (a) of § 24.5, to read as follows:

§ 24.5 Filing identification number.

(a) Each person, business firm, Government agency, or other organization shall file Customs Form 5106, Notification of Importer's Number or Application for Importer's Number, or Notice of Change of Name or Address, with the first formal entry which he submits or the first request for services that will result in the issuance of a bill or a refund check upon adjustment of a cash collection. Customs Form 5106 shall also be filed for the ultimate consignee for which such entry is being made.

It is also proposed to amend the first sentence in paragraph (d) of § 141.61, to read as follows:

(d) Customs Form 5101.-A Customs Form 5101 (Entry Record) shall be prepared by the importer and all three copies, with carbon paper left in, shall be presented with each consumption entry, and with each warehouse, appraisement, vessel repair, or drawback

Prior to the adoption of the amendment consideration will be given to any relevant data, views, or arguments which are submitted in writing to the Commissioner of Customs, Attention: Regulations Division, Washington, D.C. 20229, and received not later than October 5,

Written material or suggestions submitted will be available for public inspection in accordance with § 103,3(b) of the Customs regulations (19 CFR 103.3(b)), at the Regulations Division, Headquarters, United States Customs Service, Washington, D.C., during regular business hours.

Approved August 28, 1973.

VERNON D. ACREE. [SEAL] Commissioner of Customs.

[FR Doc.73-18735 Filed 9-4-73;8:45 am]

DEPARTMENT OF THE INTERIOR

Bureau of Indian Affairs

[25 CFR Part 221]

IRRIGATION OPERATION AND MAINTENANCE CHARGES

Water Charges on the Ahtanum Indian Irrigation Project

AUGUST 24, 1973.

These proposed regulations are being considered for issuance under the authority delegated to the Commissioner of Indian Affairs by the Secretary of the Interior in Section 15(a) of Secretarial Order 2508 (10 BIAM 2.1) and redelegated by the Commissioner to the Area Director in 10 BIAM 3.

Notice is hereby given that it is proposed to modify Section 221.1 of Part 221, Subchapter T, Chapter I, of Title 25 of the Code of Federal Regulations by changing the rate for annual operation and maintenance assessments on the Ahtunum Indian Irrigation Project for Calandar Year 1974 and subsequent years. This modification is proposed pursuant to the authority contained in the Acts of August 1, 1914 (38 Stat. 583), and March 7, 1928 (45 Stat. 210)

The purpose of this modification is to increase the assessment rate to more ac-

curately reflect the actual operation and maintenance costs based on the previous year's operating experience and the anticipated program of work.

The public is welcome to participate in the rule making process of the Department of the Interior. Accordingly, interested persons may submit written comments, views, or arguments with respect to the proposed rates to the Area Director, Portland Area Office, Bureau of Indian Affairs, Post Office Box 3785, Portland, Oregon 97208, on or before October 5, 1973.

Section 221.1 of Chapter I, Title 25, of the Code of Federal Regulations is revised to read as follows:

§ 221.1 Charges.

Pursuant to the provisions of the Acts of August 1, 1914, and March 7, 1928 (38 Stat. 583 and 45 Stat. 210; 25 U.S.C. 385, 387), the operation and maintenance charges on lands of the Ahtanum Indian Irrigation Project, Yakima Indian Reservation, Washington, for the Calendar Year 1974 and subsequent years until further notice, are hereby fixed at \$3.75 per acre per annum for each irrigable acre of land to which water can be delivered from the project works.

> RICHARD M. BALSIGER. Acting Area Director.

(FR Doc.73-18682 Filed 9-4-73;8:45 am)

[25 CFR Part 221] IRRIGATION OPERATION AND

MAINTENANCE CHARGES

Water Charges on the Toppenish-Simcoe Indian Irrigation Project

AUGUST 24, 1973.

These proposed regulations are being considered for issuance under the authority delegated to the Commissioner of Indian Affairs by the Secretary of the Interior in section 15(a) of Secretarial Order 2508 (10 BIAM 2.1) and redelegated by the Commissioner to the Area Director in 10 BIAM 3.

Notice is hereby given that it is proposed to modify \$221.73 of Part 221. Subchapter T, Chapter I, of Title 25 of the Code of Federal Regulations by changing the basic rate for annual operation and maintenance assessments on the Toppenish-Simcoe Indian Irrigation Project for Calendar Year 1974 and subsequent years. This modification is proposed pursuant to the authority contained in the Acts of August 1, 1914 (38 Stat. 583), and March 7, 1928 (45 Stat.

The purpose of this modification is to increase the assessment rate to more accurately reflect the actual operation and maintenance costs based on the previous year's operating experience and the an-

ticipated program of work.

The public is welcome to participate in the rule making process of the Department of the Interior. Accordingly, interested persons may submit written comments, views, or arguments with respect to the proposed rates to the Area Director, Portland Area Office, Bureau of Indian Affairs, Post Office Box 3785, Portland, Oregon 97208, on or before October 5, 1973.

Section 221.73 of Chapter I, Title 25 of the Code of Federal Regulations is re-

vised to read as follows:

§ 221.73 Charges.

Pursuant to the provisions of the Acts of August 1, 1914, and March 7, 1928 (38 Stat. 583 and 45 Stat. 210; 25 U.S.C. 385, 387), the operation and maintenance charges for the lands under the Toppenish-Simcoe Irrigation Project, Yakima Indian Reservation, Washington, for the Calendar Year 1974 and subsequent years until further notice, are hereby fixed as follows:

> RICHARD M. BALSIGER, Acting Area Director.

[FR Doc.73-18683 Filed 9-4-73;8:45 am]

[25 CFR Part 221]

IRRIGATION OPERATION AND MAINTENANCE CHARGES

Basic and Other Water Charges on the Wapato Indian Irrigation Project

AUGUST 24, 1973.

These proposed regulations are being considered for issuance under the authority delegated to the Commissioner of Indian Affairs by the Secretary of the Interior in section 15(a) of Secretarial Order 2508 (10 BIAM 2.1) and redelegated by the Commissioner to the Area Director in 10 BIAM 3.

Notice is hereby given that it is proposed to modify § 221.86 of Part 221, Subchapter T, Chapter I of Title 25 of the Code of Federal Regulations by changing the basic rate for annual operation and maintenance assessments on the Wapato Indian Irrigation Project for Calendar Year 1974 and subsequent years. This modification is proposed pursuant to the authority contained in the Acts of August 1, 1914 (38 Stat. 583), and March 7, 1928 (45 Stat. 210).

The purpose of this modification is to increase the assessment rate to more accurately reflect the actual operation and maintenance costs based on the previous year's operating experience and the

anticipated program of work.

The public is welcome to participate in the rule making process of the Department of the Interior. Accordingly, interested persons may submit written comments, views, or arguments with respect to the proposed rates to the Area Director, Portland Area Office, Bureau of Indian Affairs, Post Office Box 3785, Port-

land, Oregon 97208, on or before October 4, 1973.

Section 221.86 of Chapter I, Title 25, of the Code of Federal Regulations is revised to read as follows:

§ 221.86 Charges.

The operation and maintenance charges on assessable lands under the Wapato Indian Irrigation Project, Yakima Indian Reservation, Washington, are hereby fixed as follows:

(a) Pursuant to the provisions of the Acts of August 1, 1914, and March 7, 1928 (38 Stat. 583, 45 Stat. 210; 25 U.S.C. 385, 387), the basic operation and maintenance assessment rates for the Calendar Year 1974 and subsequent years until further notice are:

 Minimum charges for all tracts in noncontiguous single ownership...\$10.80
 Flat rate upon all farm units or

tracts for each assessable acre except Additional Works lands....... 10.80
(3) Storage operation and mainte-

(3) Storage operation and maintenance. For all lands with a storage water right, known as "B" lands, in addition to other charges per acre... 0.60 (4) Flat rate upon all farm units or

(b) Pursuant to the provisions of the Act of September 26, 1961 (75 Stat. 680), there shall be assessed and collected from all lands except Additional Works lands, beginning with the Calendar Year 1967 and until further notice but not to exceed a period of 10 years, an annual per acre charge of \$0.20 to defray the cost of replacing a wooden pipeline.

RICHARD M. BALSIGER, Acting Area Director. [FR Doc.73-18681 Filed 9-4-73;8:45 am]

DEPARTMENT OF AGRICULTURE

Agricultural Marketing Service
[7 CFR Part 26]
GRAIN SORGHUM

Proposed Revision of U.S. Standards

Pursuant to section 4 of the United States Grain Standards Act, as amended (82 Stat. 762, 7 U.S.C. 76), notice is hereby given according to the administrative procedure provisions of Section 553 of Title 5, United States Code, that the U.S. Department of Agriculture has under consideration a proposed revision of the Official Grain Standards of the United States for Grain Sorghum (7 CFR 26.551 et seq.).

Statement of considerations.—The United States Grain Standards Act provides for official U.S. standards to designate the levels of quality of grain for voluntary use by producers, merchandisers, and consumers in the domestic marketing of grain and for mandatory use in the export marketing of grain. Official grading service is provided under the Act upon request of the applicant and payment of a fee to cover the cost of the service.

At present, yellow grain sorghum is traded under three names; grain sorghum, sorghum, and milo. The multi-

plicity of names is confusing and does not facilitate or promote the orderly marketing of grain sorghum. The officially recognized botanical name for the commodity is Sorghum vulgare, and the officially recognized common name is "sorghum." Grain sorghum is a recognized synonym for sorghum. Milo is a recognized type of sorghum but not all sorghum sold in commercial channels is mile. To avoid the multiplicity of names, and to provide an accurate but short name, it has been proposed that the name in the standards be shortened from "grain sorghum" to the officially recognized name "sorghum." If the pro-posal is adopted, inspectors would be authorized, for a period of time, to show both names on certificates to help applicants meet contract commitments.

Sorghum breeders and producers of sorghum seed have requested a change in the classing of sorghum under the U.S. standards. They propose that the class White Sorghum be redefined to reduce the maximum limit for sorghum of other colors. They also propose that the class Yellow Sorghum be redefined to include mixtures of sorghum with white seedcoats along with those seedcoat colors presently allowed in the class.

The present definition for the class White Grain Sorghum permits up to 10 percent of sorghum with seedcoats of other colors before the sorghum is graded "Mixed." Only limited acreage of white sorghum is now produced in the United States but new white sorghum varieties are available and should be more acceptable to producers if the proposed change in classing is approved. Feeding studies using white sorghum show an increased feed efficiency of 4 to 7 percent above some red sorghum. Many poultry feeders prefer white sorghum to sorghum of other colors. White sorghum is also stated to be more suitable than sorghum of other colors for wet milling (including starch production). brewing, and flour production for human food. For these reasons, it is proposed to permit only 2 percent of sorghum with seedcoats of other colors in the class White Sorghum.

The present definition for the class Yellow Grain Sorghum includes sorghum with yellow, salmon-pink, and red colored seedcoats. In addition, it allows not more than 10 percent of sorghum of other classes, including white seedcoats. Accordingly, mixtures of sorghum with yellow seedcoats with more than 10 percent of sorghum with white seedcoats are graded "Mixed." Mixtures of yellow and white sorghum are subject to price discounts, but research indicates that the feeding quality of white sorghum normally may be equal to or superior to that of yellow sorghum. For these reasons, it is proposed to redefine the class Yellow Grain Sorghum to include sorghum with white seedcoats in any amount, except an amount that meets the requirements for white sorghum.

The proposed change in the classing of yellow sorghum should also be helpful to inspectors in classing hybrid varieties. Such varieties frequently have seedcoats with varying tinges or shades of color. If the proposed change in classing is approved, kernels having colors varying between yellow and white will be classified as Yellow Sorghum.

The proposed changes in the U.S. standards for sorghum would be as fol-

lows:

 Shorten the name of the grain from "grain sorghum" to "sorghum"—to use a shorter, more official, and more acceptable name.

2. Change the definition for the class Yellow Sorghum by adding sorghum with white seedcoats—to permit mixtures of yellow, white, salmon-pink, and red sorghum to be graded as Yellow Sorghum.

3. Change the definition for the class White Sorghum to require that white sorghum shall have white seedcoats and contain not more than 2.0 percent of sorghum with seedcoats or subcoats of other colors—to further restrict the quantity of other colors that can be mixed with white sorghum and still be classified as White Sorghum.

4. Revise the format of the standards

by:

a. Arranging the terms in alphabetical order—for ease in use.

b. Deleting the definition for "Grades" from "Terms Defined"—the term is adequately defined in "Grades, Grade Requirements, and Grade Designations," c. Including "Moisture" and "Test

c. Including "Moisture" and "Test weight per bushel" under "Terms Defined"—these terms were previously included in "Principles Governing Application of Standards."

d. Incorporating the term "crotalaria seed" under U.S. Sample grade (§ 26.557) and showing numerical limits for crotalaria seed and stones—to more clearly

define the grade.

5. Add to the definition for sorghum a definition for whole kernels—to more clearly define the basic requirements for

sorghum.
6. Add "sorghum almum" to the definition for "nongrain sorghum"—to provide for the proper designation of this commercially grown forage sorghum.

 Add "triticale" to the definition for "other grains"—to provide for the proper designation of this new grain.

8. Include in the definition for "damaged kernels" the term "insect-bored kernels"—to clearly identify insect-bored kernels as damaged kernels.

9. Define the term "distinctly low quality"—to more clearly identify the

term.

10. Add the sections "Temporary adjustment in equipment and procedures" (§ 26.553) and "Percentages" (§ 26.554) to "Principles Governing Application of Standards."

11. Redefine "Broken kernels, foreign material, and other grains"; "Docket"; "Moisture"; "Test weight"; and "Basis of determination"—to show information that is considered significant to the meaning and application of the standards.

12. Clarify the definition for percentages—to provide for uniformity in expressing percentages for grade determinations.

 Make nonsubstantive changes of an editorial nature.

The Department proposes that the U.S. Standards for Grain Sorghum be revised to read as follows:
OFFICIAL GRAIN STANDARDS OF THE UNITED

STATES FOR SORGHUM 1

TERMS DEFINED

§ 26.551 Definitions.

For the purposes of these standards the following terms shall have the meanings stated below:

(a) Broken kernels, foreign material, and other grains.—All material, including whole kernels of sorghum and pieces of kernels or sorghum (except dockage) which may be removed from a test portion of the original sample by use of an approved device, and by handpicking a portion of the sample, in accordance with procedures prescribed in the Grain Inspection Manual. For the purpose of this paragraph "approved device" shall include the Carter Dockage Tester and any other equipment that is approved by the Administrator as giving equivalent results."

(b) Classes.—The following four

classes:

 Brown sorghum.—Sorghum with brown seedcoats or brown subcoats which contains not more than 10.0 percent of sorghum of other colors.

(2) White sorghum.—Sorghum with white seedcoats which contains not more than 2.0 percent of sorghum with seedcoats or subcoats of other colors.

(3) Yellow sorghum.—Sorghum with yellow, salmon-pink, red, or white seedcoats, or white but spotted seedcoats, which contains not more than 10.0 percent of sorghum with brown seedcoats or subcoats and which does not meet the requirements for the class White Sorghum.

(4) Mixed sorghum.—Sorghum which does not meet the requirements for any of the classes Brown Sorghum, Yellow

Sorghum, or White Sorghum.

(c) Damaged kernels (total).—Kernels and pieces of kernels of sorghum and other grains which are heat-damaged, sprout-damaged, frost-damaged, badly ground-damaged, badly weather-damaged, mold-damaged, diseased, insect-bored, or otherwise materially damaged.

(d) Distinctly low quality.—Sorghum which is obviously of inferior quality because it contains foreign substances or because it is in an unusual state or condition, and which cannot be graded by use of the other grading factors provided in the standards.

(e) Dockage.—Material of small par-

³ Compliance with the provisions of these standards does not excuse failure to comply with the provisions of the Federal Food, Drug, and Cosmetic Act, or other Federal laws.

*Grain Inspection Manual, GR Instruction 918-6, revised August 28, 1972. Copies may be obtained from the Grain Division, Agricultural Marketing Service, U.S. Department of Agriculture, 6525 Belcrest Road, Hyattsville, Maryland 20782.

*Requests for information concerning approved devices and procedures, criteria for approved devices, and request for approval of devices should be directed to the Grain Division, Agricultural Marketing Service, U.S. Department of Agriculture, 6525 Belcrest Road, Hyattsville, Maryland 20782.

ticle size (2 1/2/64 inches or less in diameter), including pieces of sorghum, which may be removed from a test portion of the original sample by use of an approved device in accordance with procedures prescribed in the Grain Inspection Manual.* For the purpose of this paragraph "approved device" shall include the Carter Dockage Tester and any other equipment that is approved by the Administrator as giving equivalent results.*

(f) Heat-damaged kernels.—Kernels and pieces of kernels of sorghum and other grains which are materially discolored and damaged as a result of

heating.

(g) Moisture.—Water content in sorghum as determined by an approved device in accordance with procedures prescribed in the Grain Inspection Manual. For the purpose of this paragraph "approved device" shall include the Motomco Moisture Meter and any other equipment that is approved by the Administrator as giving equivalent results.²

(h) Nongrain sorghum.—Seeds of broomcorn, johnsongrass, sorghum almum, sorghum-sudangrass hybrids, sorgrass, sudangrass, and sweet sorghum

(sorgo).

(i) Other grains.—Barley, corn, cultivated buckwheat, einkorn, emmer, flax-seed, hull-less barley, nongrain sorghum, oats, Polish wheat, popcorn, poulard wheat, rice, rye, soybeans, spelt, sweet corn, trittcale, wheat, and wild oats.

(j) Sorghum.—Grain which, before the removal of dockage, consists of 50.0 percent or more of whole kernels of sorghum (Sorghum vulgare) excluding nongrain sorghum and which contains not more than 10.0 percent of other grains for which standards have been established under the United States Grain Standards Act. Whole kernels, for purposes of this determination, shall be sorghum with ¼ or less of the kernel removed.

(k) Stones.—Concreted earthy or mineral matter and other substances of similar hardness that do not disinte-

grate readily in water.

(1) Test weight per bushel.-Test weight per bushel shall be the weight per Winchester bushel (2,150.42 cubic inches capacity) as determined on a test portion of the original sample by an approved device in accordance with instructions in the Grain Inspection Manual.3 For the purpose of this paragraph "approved device" shall include the Fairbanks-Morse or Ohaus Test Weight Per Bushel Apparatus and any other equipment that is approved by the Administrator as giving equivalent results." Test weight per bushel shall be stated in terms of whole and half pounds; a fraction of a pound when equal to or greater than one-half shall be stated as one-half and when less than one-half shall be disregarded; e.g., 51.1 through 51.4 shall be 51.0, and 51.5 through 51.9 shall be 51.5.

PRINCIPLES GOVERNING APPLICATION OF STANDARDS

§ 26.552 Basis of determination.

Each determination of "broken kernels, foreign material, and other grains" shall be determined on a test portion of the grain sample when free from dockage. Each determination of "class," "damaged kernels," "heat-damaged kernels," and "stones" shall be determined on a test portion of the grain sample when free from "dockage," and that part of the "broken kernels, foreign material, and other grains" which will pass through an equilateral triangular opening, the inscribed circle of which is 0.0781 (5/64) inch in diameter. All other determinations shall be on a test portion of the original sample.

§ 26.553 Temporary adjustments in equipment and procedures.

The equipment and procedures referred to in the sorghum standards are applicable to sorghum produced and harvested under normal environmental conditions. Abnormal environmental conditions during the production and harvest of sorghum may require temporary adjustments in the procedures or equipment. When these adjustments are necessary, Grain Division Field Offices and Official Inspection Agencies will be notified in writing of the change.

§ 26.554 Percentages.

Percentages shall be determined on the basis of weight and shall be rounded off as follows:

- (a) When the figure to be rounded is followed by a figure greater than 5, round to the next higher figure, e.g., 0.46, report as 0.5.
- (b) When the figure to be rounded is followed by a figure less than 5, round to the next lowest figure, e.g., 0.54, report as 0.5.
- (c) When the figure to be rounded is even and it is followed by the figure 5, retain the even figure. When the figure to be rounded is odd and it is followed by 5, round the figure to the next highest number, e.g., 0.45, record as 0.4; 0.55, record as 0.6.

Percentages, except for dockage and for classes in "Mixed Sorghum," shall be stated in whole and tenth percent to the nearest tenth percent. The percentage of dockage when equal to one percent or more shall be stated as a whole percent; a fraction of a percent shall be disregarded. The percentage of each class in "Mixed Sorghum" shall be stated to the nearest whole percent.

The percentage of "broken kernels, foreign material, and other grains" shall be the sum of the percentage determined for the mechanically separated portion and the percentage determined for the handpicked portion in accordance with instructions in the Grain Inspection Manual.

\$26,555 [Reserved] \$26,556 [Reserved]

GRADES, GRADE REQUIREMENTS, AND GRADE DESIGNATIONS

§ 26.557 Grades and grade requirements for all classes of sorghum. (See also § 26.559.)

Grade		limits of—				
	Minimum test weight	Moisture -	Damaged	l kernels	Broken kernels,	
	per bushel	atosture —	Total	Heat-damaged kernels	and other grains	
U.S. No. 1	(a) Does not mee (b) Contains mo sample Wei of sorghum (c) Has a musty,	ight or more than	s for the grades which have a we 2 crotalaria seed ally objectionable	ight in excess of is (Crotalaria spp e foreign oder (exc	Percent 4, 0 8, 0 12, 0 15, 0 or 4, 0.2 percent of the 0.) per 1,000 grams cept smut odor), or	

I Sorghum which is distinctly discolored shall not be graded higher than U.S. No. 3.

§ 26.558 Grade designations.

The grade designations for sorghum shall include in the following order: (a) The letters "U.S.," (b) the number of the grade or the words "Sample grade," (c) the class, (d) each applicable special grade (see § 26.560), and (e) when applicable, the word "dockage" together with the percentage thereof. The grade designation for the class "Mixed Sorghum" shall include, following the words "Mixed Sorghum," the approximate percentages of each class of sorghum in the mixture in the order of predominance,

SPECIAL GRADES, SPECIAL GRADE REQUIRE-MENTS, AND SPECIAL GRADE DESIGNA-TIONS

§ 26.559 Special grades and special grade requirements.

A special grade, when applicable, is supplemental to the grade assigned under § 26.557. Such special grades are established and determined as follows:

(a) Smutty sorghum.—Smutty sorghum shall be sorghum which is covered with smut spores or which contains 20 or more smut masses in 100 grams of sorghum.

(b) Weevily sorghum.—Weevily grain sorghum shall be grain sorghum which is infested with live weevils or other live insects injurious to stored grain.

§ 26.560 Special grade designations.

The grade designation for smutty or weevily sorghum shall include, following the class, the word(s) "Smutty" or "Weevily," as warranted, and all other information prescribed in § 26.558.

Comments and effective date .- The United States Grain Standards Act. as amended, requires that public notice shall be given on any amendment of the standards and that no changes shall become effective less than 1 year after promulgation thereof, unless, in the judgment of the Secretary, the public health, interest, or safety require that they become effective sooner. It is desirable that new standards become effective before the beginning of harvest to minimize possible disruption of normal marketing procedures. A limited poll of members of the trade and Federal agencies indicate no objection to an effective date of June 1, 1974. If the proposed revision as set forth herein is adopted in whole or in part,

it is intended that the revision would be made effective on or about June 1, 1974.

Public hearings on the proposed revision will not be held but all persons who desire to submit written data, views, or arguments on this proposal should file them in duplicate with the Hearing Clerk, U.S. Department of Agriculture, Room 112, Administration Building, Washington, D.C. 20250, not later than October 22, 1973. Any persons who desire to submit their views orally in an informal manner should so advise the Director, Grain Division, Agricultural Marketing Service, U.S. Department of Agriculture, 6525 Belcrest Road, Hyattsville, Maryland 20782 (telephone (301) 436-8776) so that arrangements may be made for such submission by October 23, 1973. A summary of such views will be made and furnished for verification to the person making the submission and if approved may be filed by him in the Office of the Hearing Clerk. All comments so filed will be available for public inspection during official hours of business (7 CFR 1.27(b)). Consideration will be given to all comments filed with the Hearing Clerk, and to all other information available to the U.S. Department of Agriculture, in arriving at a decision on the proposed revision of the grain sorghum standards.

Copies of the current grain sorghum standards may be obtained from the Director, Grain Division, Agricultural Marketing Service, 6525 Belcrest Road, Hyattsville, Maryland 20782, or from any field office of the Grain Division. Field office locations can be found in the telephone directory.

Done at Washington, D.C., on August 27, 1973.

E. L. PETERSON,
Administrator,
Agricultural Marketing Service.

[FR Doc.73-18559 Filed 9-4-73;8:45 am]

Animal and Plant Health Inspection Service
[9 CFR Parts 102, 104]

VIRUSES, SERUMS, TOXINS, AND ANALOGOUS PRODUCTS

Proposed Miscellaneous Amendments

Notice is hereby given in accordance with the provisions contained in section 553(b) of title 5, United States Code (1966), that it is proposed to amend certain of the regulations relating to viruses, serums, toxins, and analogous products in Part 102 and Part 104 of title 9 CFR issued pursuant to the provisions of the Virus-Serum-Toxin Act of March 4, 1913 (21 U.S.C. 151-158).

These proposed amendments would include a revision of the regulations pertaining to the importation of biological products. As revised, they would be recodified in a new Part 104, titled "Permits for Biological Products." The title of Part 102 would be changed to "Licenses for Biological Products." These changes would not only emphasize the regulations pertaining to permits but would further differentiate these regulations from those pertaining to other permits issued by Animal and Plant Health Inspection Service, thus making them more readily available to interested people.

The need for three types of permits would be specified in § 104.1, including one for transit shipments. Such permits would be authorized in § 104.2 and conditions under which a permit would not be issued would be specified. Need for an application would be prescribed in

5 104 3

The three types of permits-Research and Evaluation, Distribution and Sale, and Transit Shipment would be provided in § 104.4, § 104.5, and § 104.6, respectively, with the conditions under which each will be issued included. The format for the permit would be authorized in § 104.7.

These proposed amendments would make biological products imported for Distribution and Sale subject to the same test and release requirements currently being applied to licensed products prepared in the United States. They would also provide for the disposition of shipments which do not comply with such requirements or which might otherwise not be eligible for entry.

1. Part 102 is amended by changing

the title to read:

PART 102-LICENSES FOR BIOLOGICAL **PRODUCTS**

2. Part 102 is amended by deleting § 102.25, § 102.26, § 102.27, and § 102.28. 3. Chapter I of Title 9 of the Code of

Federal Regulations is amended by adding a new Part 104 to read:

PART 104-PERMITS FOR BIOLOGICAL PRODUCTS

104.1 Permit required Permit authorized. 104.2

Permit application. 104.3

Products for research and evaluation.

Products for distribution and sale, 104.5 Products for transit shipment only. 104.6

104.7 Product permit. 104.8 Illegal shipments.

AUTHORITY: 37 Stat. 832-833; 21 U.S.C. 151-158

§ 104.1 Permit required.

Unless otherwise authorized or directed by the Deputy Administrator, each permit to import a biological product into

cordance with the regulations in this

(a) No biological product shall be brought into the United States unless a permit has been issued for such product. A separate U.S. Veterinary Biological Product Permit shall be required for each shipment of biological product to be imported; Provided, That, a permit shall also be required for each transit shipment of biological products moved through the United States.

(b) Each person importing biological products shall hold an unexpired, unsuspended, and unrevoked permit issued by Veterinary Services. Such person shall reside within the United States, or operate a business establishment within

the United States, or both.

§ 104.2 Permit authorized.

(a) Veterinary Services is authorized to issue three types of permits for importing biological products. They shall be:

(1) U.S. Veterinary Biological Product Permit for Research and Evaluation;

(2) U.S. Veterinary Biological Product Permit for Distribution and Sale; or

(3) U.S. Veterinary Biological Product Permit for Transit Shipment Only.

(b) A permit shall not be issued for a biological product from countries known to have exotic diseases, including but not limited to foot-and-mouth disease, rinderpest, fowl pest (fowl plague), swine vesticular disease, Newcastle disease, and African swine fever, if in the opinion of the Deputy Administrator, such products may endanger the livestock or poultry of this country.

(c) A permit shall not be issued until an inspector has determined the condition of the equipment and facilities of the producer, of the applicant, or of both if such a determination is considered necessary by the Deputy Administrator.

(d) A permit shall not be issued for a biological product prepared in the United States, exported, and presented for reentry except as provided in § 104.4(d),

§ 104.3 Permit application.

(a) Each person desiring to import a biological product shall make written application to Veterinary Services for a permit. Blank forms of application shall be furnished upon request.

(b) The application shall specify the type of permit required, the port of entry at which the product shall be cleared through Customs, the estimated quantity involved, and the anticipated date on which the importation shall be made

§ 104.4 Products for research and evaluation.

(a) An application for a U.S. Veterinary Biological Product Permit to import a biological product for Research and Evaluation shall be accompanied by a brief description of such product, methods of propagating antigens including composition of medium, species of animals or cell cultures involved, the United States shall be issued in ac- degree of inactivation or attenuation,

recommendations for use, and the proposed plan of evaluation.

(b) A permit to import a biological product for Research and Evaluation shall not be issued unless scientific capabilities of the investigator are determined to be adequate to safeguard domestic animals and protect public health, interest, or safety from any deleterious effects which might result from such product. Special restrictions shall be specified as part of the permit when such restrictions are deemed necessary or advisable by the Deputy Administrator.

(c) A biological product shall not be imported for Research and Evaluation which is not packaged and labeled in accordance with § 112.9 of this subchapter.

(d) When a licensed product has been exported from the United States, a permit may be issued to the producer for a small quantity of such product for in vitro Research and Evaluation tests; Provided. That, the importation of such product will not endanger the livestock or poultry of this country.

§ 104.5 Products for distribution and sale.

An application for a U.S. Veterinary Biological Product Permit to import a biological product for Distribution and Sale shall be accompanied by supporting material necessary to satisfy the requirements provided in this section.

(a) A permit shall not be issued unless the conditions under which the biological product is to be prepared or the methods to be used are such as to reasonably insure that the product is pure.

safe, potent, and efficacious.

(1) Three copies of blueprints of the producing foreign establishment shall be submitted with the application unless satisfactory plans are on file with Veterinary Services from a previous application. The production facilities to be used for each product prepared at the establishment shall be designated.

(2) The manufacturer shall submit written authorization for properly accredited inspectors to inspect without previous notification, and at such times as may be demanded by the aforesald inspectors, all parts of the establishment in which biological products shall be prepared, all processes of preparation, and all records relative to such prepara-

(3) The manufacturer shall furnish written assurance that a biological product to be imported for Distribution and Sale shall be prepared under the supervision of a person competent by education and experience to handle all matters pertaining to the preparation of such product and that each biological product shall be prepared in accordance with the regulations applicable to the product or in a manner acceptable to the Deputy Administrator so as to carry out the purposes of the Act.

(4) The methods to be used in the preparation of each biological product shall be written into an approved Outline of Production prepared in accordance with the applicable provisions of Part 114 of this subchapter. Three copies of such Outline of Production shall be submitted to Veterinary Services and be approved before the permit is issued

(5) Data shall be furnished by the applicant which establishes that the product involved complies with the provisions of the Act and the regulations issued pursuant thereto. When deemed necessary to obtain required information, Veterinary Services may require that the product be tested under field conditions within or outside the United States as the occasion demands.

(b) The permittee shall furnish the

following:

(1) Adequate facilities for storing all imported biological products. An inspection of such facilities shall be made by inspectors before a permit is issued and additional inspections shall be made at any time subsequent to the importation of the biological products if deemed necessary by the Deputy Administrator:

(2) Information regarding all claims to be made on labels and advertising matter used in connection with or related to the biological product to be

imported:

(3) Mounted copies of final container labels, carton labels, and enclosures to be used with the imported product as provided in Part 112 of this subchap-

(4) Samples of each serial from each shipment of biological products imported or offered for importation. Such samples shall be collected, examined. and tested in a manner specified by the Deputy Administrator. The biological products being sampled shall not be further distributed by the permittee until released by Veterinary Services.

§ 104.6 Products for transit shipment only.

An application for a permit for Transit Shipment Only shall be required when a biological product is being shipped from one foreign country to another foreign country by way of the United States. The shipment shall move under a permit subject to the following restrictions:

(a) The shipment shall be confined to the carrier at all times when such shipment is to transit the United States on the same carrier on which it arrived. If the shipment is to be transferred to a carrier other than the one on which it shall arrive into the United States, a schedule of arrival and departure of each shipment shall be furnished by the permittee to Veterinary Services prior to arrival in the United States.

(b) The permittee shall be responsible to Veterinary Services for handling, storing, and forwarding of the biological product. Veterinary Services shall be notified of all shipments received and forwarded by the permittee and an accu-

rate accounting shall be made.

§ 104.7 Product permit.

(a) A permit shall be numbered, shall be dated, and shall be in the following form:

U.S. VETERINARY BIOLOGICAL PRODUCT PERMIT No. --

RESEARCH AND EVALUATION OR DISTRIBUTION AND SALE

OR

TRANSIT SHIPMENT ONLY

(Insert One)

Issued at Washington, D.C. on ... Expires:

This permit is issued pursuant to the terms of the Act of Congress approved March 4, 1913 (37 Stat. 832), governing the preparation, sale, barter, exchange, shipment, and importation of veterinary biological products. So far as the jurisdiction of the U.S. Department of Agriculture is concerned, ... is authorized to import

., into the United States through the port of .

Importation shall be made subject to the

following special conditions:

This permit may be revoked if the permit-tee violates or fails to comply with said Act, the regulations made thereunder, or the conditions specified herein.

Veterinary Services, Animal and Plant Health Inspection Service.

(b) The purpose for which the product is imported shall be specified on the permit as for Research and Evaluation, Distribution and Sale, or Transit Shipment

(c) A permit shall not be used after the date specified.

§ 104.8 Illegal shipments.

(a) Biological products which are presented for importation without a permit having been issued shall be returned to the country of origin at the expense of the importer or in lieu thereof, destroyed by Department personnel.

(b) Biological products for Distribution and Sale presented for importation under a permit and found to be worthless, contaminated, dangerous, or harmful shall, within a period of 30 days after such finding, be returned to the country of origin at the expense of the importer or in lieu thereof, destroyed by Department personnel; Provided, That such product shall not be returned to the country of origin while bearing a U.S. permit number on the label.

Interested persons are invited to submit written data, views, or arguments regarding the proposed regulations to Deputy Administrator, Veterinary Services, Animal and Plant Health Inspection Service, U.S. Department of Agriculture, Washington, D.C. 20250. All comments received on or before November 3, 1973, will be considered.

All written submissions made pursuant to this notice will be made available for public inspection at Biologics Staff, Veterinary Services, Animal and Plant Health Inspection Service, Room 828-A. Federal Center Building #1, Hyattsville. Maryland 20782, at such times and places and in a manner convenient to the public business (7 CFR 1.27(b)).

Done at Washington, D.C., this 30th day of August 1973.

G. H. WISE. Acting Administrator, Animal and Plant Health Inspection Service. [FR Doc.73-18743 Filed 9-4-73;8:45 am]

DEPARTMENT OF TRANSPORTATION

Coast Guard

[46 CFR Part 146] [CGD 73-173 PH]

CORROSIVE MATERIALS

Dangerous Cargoes; Miscellaneous Amendments

The Coast Guard is considering amending the dangerous cargo regulations in 46 CFR 146 pertaining to corrosive materials to:

1. Revise the packaging for the articles crotonaldehyde, diethylamine and

propylene oxide.

2. Change the classification of caustic soda and phosphoric acid to corrosive materials.

3. Add a "grandfather" clause to the definition of corrosive materials.

4. Revise the definition of corrosive

materials. 5. Add inside plastic recepticles to the

corrosive solids exemption. 6. Revise the packaging authorized for corrosive liquids N.O.S. and corrosive solid N.O.S.

7. Revise the packages for certain corrosive liquids to authorize tank car and tank trucks and a specification 2U liner for use with a DOT-37M and 6D Steel overpacks.

Written comments.-Interested persons are invited to participate in this proposed rulemaking by submitting written data, views, or arguments to the Executive Secretary, Marine Safety Council, U.S. Coast Guard Headquarters (GCMC) 82), Room 8234, 400 Seventh Street SW., Washington, D.C. 20590. (Telephone 202-426-1477). Each person submitting comments should include his name and address, identify the notice (CGD 73-173 PH), and give reasons for any recommendations. Comments received will be available for examination by interested available for examination by interested persons in Room 8234, Department of Transportation, Nassif Building, 400 Seventh Street SW., Washington, D.C. Copies will be furnished upon payment of fees prescribed in 49 CFR 7.81.

Public hearing.—The Coast Guard will hold a hearing on September 25, 1973, at 0930 a.m. in Conference Room 8332. Department of Transportation, Nassif Building, 400 Seventh Street SW., Washington, D.C. Interested persons are invited to attend the hearing and present oral or written statements on this proposal. It is requested that anyone desiring to attend the hearing notify the Executive Secretary at least ten days in advance of the time needed for his presentation. Written summaries or

copies of oral presentations are en-

Closing date for comments.—All communications received before October 5, 1973, will be evaluated before final action is taken on this proposal. The proposed regulations may be changed in the light of comments received.

By a separate document published at page 5946 of the February 12, 1973, issue of the Federal Register, the Hazardous Materials Regulations Board of the Department of Transportation amended Title 49 of the Code of Federal Regulations. Also the Board has proposed to amend the definition of corrosive materials in a document published at page 4270 of the Federal Register. For reasons fully stated in these documents the Board has proposed these changes.

The hazardous materials regulations of the Department of Transportation in Title 49 apply to shippers by water, air, and land, and to carriers by air and land. The adoption of this proposed amendment to Title 46 would make the proposal of the Hazardous Materials Regulations Board applicable to carriers by

water.

The Coast Guard proposes to incorporate the substance of the Board's proposal in 46 CFR Part 146.

In consideration of the foregoing, it is proposed to amend Part 146 of Title 46 of the Code of Federal Regulations as follows:

§ 146.21-100 [Amended]

 Striking out in § 146.21-100 "Table D—Classification: Inflammable liquids" for the articles "Crotonaldehyde" and

"propylene oxide" in column four the entries following the words "Outside Containers" and inserting in place thereof the following:

Carboys (DOT-1A) boxed, glass not over 5 gal cap.

Carboys (DOT-1D or 1EX (STC)) boxed, glass.

Wooden boxes, W1C (DOT-15A, 15B, 15C, 16A, 19A).

Fiberboard boxes, WIC (12B, 12P).

Metal barrels or drums (DOT-5, 5A, 5B, 5C, 5P, 17C(STC), 17E(STC).

5P, 17C(STC), 17E(STC).
Steel barrels or drums (DOT-37P) NRC not over gal, cap.

Cylinders as prescribed for any compressed gas except acetylene. Tank cars complying with DOT regulations

(trainships only).

Tank trucks complying with DOT regulations (trainships and trailerships only).

 Striking out in § 146.21-100 "Table D—Classification: Inflammable liquids" for the article "Diethylamine" the entries in columns 1, 2, and 3 and inserting in proper alphabetical sequence the following article in table D:

In column 1

Diethylamine

In column 2

Clear colorless liquid Flashpoint below 0° F Miscible with water

In column 3

Red

In column 4

Carboys (DOT-1A) boxed glass not over 5 gal cap.

Carboys (DOT-1D, 1EX(STC)) boxed, glass Wooden boxes, W1C (12B, 12P)

Metal barrels or drums: (DOT-5, 5A, 5B, 5C, 5P, 17C (STC), 17E (STC)) (DOT-37P) NRC not over 5 gal cap. Cylinders as prescribed for any compressed gas except acetylene

Tank cars complying with DOT regulations (trainships only)

Tank trucks complying with DOT regulations (Trainships and Trailerships only)

In columns 5, 6 and 7 not permitted

§ 146.04-5 [Amended]

3. Striking out in \$ 146.04-5 "List of explosives and other dangerous articles and combustible liquids" the entries in all three columns for the articles "Caustic soda, solid", "Phosphoric acid" and "Sodium hydroxide" and inserting in proper alphabetical sequence the following articles:

Article	Classed as-	Label required	
Caustie soda, dry, solid,	Cor	Correstve.	
flake, bead, or granular. Phosphoric acid, liquid, or	Cor	Do.	
phosphoric acid solution. Sodium hydroxide dry, solid, flake, bead or granular. See Caustic soda.	Cor	Dø.	

§ 146.27-100 [Amended]

 Striking out in § 146.27-100 "Table K—Classification: Hazardous articles the entries in column one for Caustic soda, solid and Sodium hydroxide and in all seven columns for the article Phosphoric acid.

§ 146.23-100 [Amended]

 Adding to § 146.23-100 in proper alphabetical sequence the following articles:

		Suprement to	Required conditions for transportation						
Descriptive name of article	Characteristic properties caution macking required	Label - required	Cargo versel	Passenger vessels	Ferry vessels, passenger of vehicle	Railroad car ferry passenger of webicle			
Canatic soda dry, solid, flake, bead or granular. Sodium hydrox- ide dry, solid, flake, bead, or granular.	A solid in the form of white flakes, powder lumps. Keep dry. In contact with moisture gives off corrosive pungent vapor and evolves heat. Caustle to skin. May destroy organic materials.		Stowage: "On deck under cover", "Tween decks", "Under deck". Outside containers. Metal, wooden, or fiberboard box or case. WIC. Metal drum. Fiber drum not exceeding 550 lb net weight or 55 gal. capacity must include a moisture barrier. Plastic drum or pail not over 80 lb net weight and not over 6 gal capacity. Bags complying with DOT regulations not over 110 lb net weight. Metal portable tank or closed bin not over 600 gal capacity and 7,000 lb gross weight. Fiberglass or rubber tank or closed bin not over 74 fb capacity. Metal siftproof cargo tank or tankear or hopper	Stowage: "On deck under cover" "Tween deck" "Under deck", Outside containers. Esma con- tainers as author- ized for eargo vessels.	Ferry stowage: (AA). Outside containers. Same containers as authorized for cargo vessels.	Ferry stownge: (BB). Outside con- tainers, Same containers as authorized for cargo vessels.			
Phosphoric acid, liquid, or phos- phoric acid solu- tion.	Usually shipped in aqueous solutions varying from 50 per- cent to 88 percent. Odorless ordinarily, has no warning properties. May cause painful burns.	Corrostve	type or pneumatic vehicle. Stowage: "On deck protected", "On deck under cover" "Tween deck", "Under deck away from heat." Outside containers: Carboys boxed glass, earthenware, clay, or stone (DOT-1A) not over 18 gal. capacity. Carboys, boxed, lead (DOT-1B) not over 18 gal. capacity. Carboys in kegs, glass, earthenware, clay, or stone (DOT-1C) not over 18 gal. capacity. Carboys, boxed, glass (DOT-1D) not over 6½ gal. capacity. Carboys in plywood drums, glass (DOT-1E) not over 7 gal. capacity. Carboys, boxed, glass, earthenware, clay, or stone (DOT-1X) STC, for export only, not over 6 gal. capacity.	"Under deck away from heat". Ontside containers: Same containers as authorized for car- go vessels.	Ferry Stowage: (AA), Outside containers: Same containers as au- thorized for car- go vessels,	Ferry Stowage: (BB). Outside con- tainers: Same containers as authorized so cargo vessels.			

Required conditions for transportation Characteristic properties caution marking required Label Descriptive name Railroad car ferry. Ferry vessels, Cargo vessel Passenger vessels passenger of vehicle passenger of vehicle Carboys, lead, metal-jacketed (DOT-28) not over 15 gal capacity. Steel barrels or drums (DOT-5A) not over 100 gal capacity. Steel barrels or drums (DOT-5C) not over 100 Steel barrels or drums (DOT-5C) not over 100 gal capacity.

Monel drums (DOT-5M) not over 55 gal capacity.

Motal barrels or drums: (DOT-17H, 37A, 37B)

STO, lined, not over 5 gal capacity. (DOT-37P)

NRC, not over 5 gal capacity.

Metal drums, rubber-lined (DOT-5D) not over over 10 gal capacity.

Motal drums, lead-ined (DOT-5H) not over 110 gal capacity.

Metal drums (DOT-17C, 17E, 17F) STC, not over 55 gal capacity.

Cylindrical steel overpack: (DOT-6D, 37M (NRC)), WIC DOT-28, 28L, or 2N, not over 55 gal capacity. Cylindrical steel overpack: (DOT-6D, 37M (NRC)), WIC DOT-28, 28L, or 2N, not over 55gal capacity.
Rubber drums (DOT-43A) not over 30 gal capacity.
Wooden barrels or kegs: (DOT-10A) asphalt, parafin, or wax lined not over 30 gal capacity. (DOT-11A, 11B) WIC, not over 200 lb net weight.
Wooden boxes: (DOT-15A, 15B, 15C, 16A, 19A) WIC, not over 200 lb gross weight. (DOT-16A) WIC polyethylene 2U, not over 200 lb gross weight. (DOT-16D) WIC (DOT-2T, TTL, 28, 28L) not over 15 gal capacity.
Fiberboard boxes: (DOT-12A, 12B), WIC not over 65 lb gross weight. (DOT-12P) WIC (DOT-2U polyethylene) not over 5 gal capacity.
Plywood or wooden box or drum (DOT-15P, 22C) WIC (DOT-2T) not over 15 gal capacity.
Fiber drum (DOT-2IP) WIC DOT-2S, 28L, or 2U not over 30 gal capacity.
Tank trucks complying with DOT regulations (trainships and trailerships only).
Cylinder as prescribed for any compressed gas (trainships and traingraps only).

Cylinder as prescribed for any compressed gas except soctylens.

Tank cars complying with DOT regulations (trainships only).

6. Revising paragraph (a) (1) in the definition for corrosive materials (§ 146.23-1) and adding a note to the definition to read as follows:

§ 146.23-1 Definition of corrosive materials.1

(a) . . .

- (1) A material is considered to be destructive or to cause irreversible alteration in human skin tissue if when tested on the intact skin of the albino rabbit by the technique described in 21 CFR 191.11 the structure of the tissue at the site of contact is destroyed or changed irreversibly. For the purpose of these regulations the test is modified and described as follows:
- (1) Corrosion to the human skin is evaluated by a patch-test technique on the intact skin of healthy albino rabbits, each weighing 2 to 3 kilograms. A minimum of six subjects must be used for this test. The back of each animal is clipped free of hair to provide at least two test sites, each being not less than 4 square inches in area.
- (ii) Liquid test materials (0.5 milliliter) or solid or semisolid test materials (0.5 gram) are introduced under a 1.5 by 1.5 inch 12-ply gauze patch which is

secured in place by two 1/2 x 4 inch strips of adhesive tape in the form of an X.

(iii) The animals are immobilized in stocks and the trunk of each animal is loosely wrapped with an impervious material, such as a rubberized cloth, for an exposure period of 4 hours. (The impervious wrap should be applied in such a manner that the palm of the analyst's hand can be easily placed between the wrap and the animal's back.)

(iv) After 4 hours of exposure, the patches are removed and the resulting reactions are evaluated.

(v) Following this initial reading, all test sites are washed with an appropriate solvent to prevent further exposure.

(vi) Readings are again made at 24 and 48 hours after the initial application.

7. Revising the exemptions for corrosive solids contained in paragraph (a) (2) of § 146.23-30 as follows:

§ 146.23-30 Exemptions for corrosive solids.

(a) * * *

(2) Corrosive solids in inside earthenware, glass, plastic, or paper receptacles of not more than 5 pounds capacity each or in inside metal, rigid fiber, or composition cans or cartons, or rigid plastic receptacles of not more than 10 pounds capacity each, over-packed in metal, wooden or fiberboard outside containers not exceeding 25 pounds net weight each. are, unless otherwise provided in this part, exempt from specification packaging, marking, other than name of contents, and labelling requirements.

§ 146.23-100 [Amended]

- 8. Revise the entries in § 146.23-100 for the article corrosive liquids N.O.S. as follows:
- (a) By striking out in column 4, 6 and 7 the words "Cylindrical steel overpack: (DOT-6D, 37M (NRC)), WIC DOT 28 or 2SL, not over 55 gal cap" and insert in place therefor the words "Cylindrical steel overpack: (DOT-6D, 37M (NRC)), WIC, DOT 2S, 2SL or 2U not over 55 gal. cap."
- (b) By adding in columns 4, 6, and 7 directly after the words "Outside Containers" the following:

Cylinders as prescribed for any compressed gas except acetylene

Tank cars complying with DOT regulations

(trainships only)
Tank trucks complying with DOT regulations (trailership and trainships only.)

- 9. Striking out in § 146.23-100 for the article corrosive solids N.O.S. in columns 4, 5, 6, and 7 the entries following the words "Outside containers" and insert in place thereof the following:
- Metal, wooden or fiberboard boxes or cases W1C

Metal drums

Fiber drums not exceeding 550 lbs net wt or 55 gal. cap. must include a moisture barrier.

Plastic drum or pail not over 80 lbs net wt and not over 6 gal. cap.

Bag complying with DOT regulations not over 110 lbs net wt.

Metal portable tank or closed bin of not over 660 gal. cap. and 7000 lbs gr. wt.

Fiberglass or rubber tank or closed bin of not over 74 cubic ft. cap.

A corrosive material, not subject to the definition previously in effect in § 146.23-1 packaged before December 31, 1973, may be shipped and transported without being subject to any of the requirements in 46 CFR Part 146 until December 31, 1974. As of Jandary 1, 1975, these materials may not be shipped or transported unless they are in compliance with 46 CFR 146.

Metal soft proof cargo tank or tank car, or hopper-type or pneumatic bulk vehicle.

10. Revising § 146.23-100 as follows:

(a) By striking out the entries for cylindrical steel overpacks in column 4 for the articles "Acids, liquids N.O.S." and "Antimony pentachloride solution" and by adding to column 4 of the same two articles the following entries:

Cylindrical steel overpack

(DOT-6D, 37M (NRC)), WIC DOT 28, 28L or 2U not over 55 gal. cap.

Cylinders are prescribed for any compressed

gas except acetylene Tank cars complying with DOT regulations (trainships only)

Tank trucks complying with DOT regulations (trainships and trailerships only)

(b) By striking out the entries for cylindrical steel overpacks in columns 4. 5. 6. and 7 for the articles Chromic acid solution: Compounds cleaning, liquid; Drugs, chemicals, medicines or cosmetics N.O.S.; Formic acid and Hydriodic acid and by adding to columns 4, 5, 6, and 7 of the same 5 articles the following entries:

Cylindrical steel overpack:

(DOT-6D, 37M (NRC)), WIC DOT-28, 28L or 2U not over 55 gal cap.

Cylinders as prescribed for any compressed gas except acetylene

Tank cars complying with DOT regulations (trainships only)

Tank trucks complying with DOT regula-tions (trainships and trailerships only)

4472 as amended; R.S. amended; Sec. 1, 19 Stat. 252, 49 Stat. 1889, sec. 6(b) (1), 80 Stat. 937; 46 U.S.C. 170, 391a, 49 U.S.C. 1655(b) (1); 49 CFR 1.46(b).)

W. F. REA, III, Rear Admiral, U.S. Coast Guard, Chief, Office of Merchant Marine Safety.

August 23, 1973.

[FR Doc.73-18539 Filed 9-4-73;8:45 am]

Federal Aviation Administration [14 CFR Part 39]

[Docket No. 73-SO-60]

GRUMMAN G-159 AIRPLANES **Proposed Airworthiness Directive**

The Federal Aviation Administration is considering amending Part 39 of the Federal Aviation Regulations by adding an airworthiness directive applicable to Grumman Model G-159 airplanes

There has been extensive corrosion of a G-159 engine mount that if allowed to progress could have resulted in failure of the mount and possible loss of the aircraft. Since this condition is likely to exist or develop in other airplanes of the same type, the proposed airworthiness directive would require inspection and reprotection of the engine mounts.

The proposed airworthiness directive is related to Amendment 39-114 (30 FR 10155), AD 65-18-3 which requires an inspection of the support tubes of the engine mount assemblies of British Aircraft Corporation Vickers Viscount

Models 744, 745D and 810 series airplanes for corrosion. Vickers also manufactured the virtually identical engine mount for the Grumman Model G-159 airplanes; however, AD 65-18-3 was not applicable to these aircraft as the original corrosion protection scheme for the Model G-159 mount was deemed equivalent to that required by AD 65-18-3

Interested persons are invited to participate in the making of the proposed rule by submitting such written data. views, or arguments as they may desire. Communications should identify the docket number and should be submitted in duplicate to the Federal Aviation Administration, Office of the Regional Counsel, P.O. Box 20636, Atlanta, Georgia 30320. All communications received on or before October 1, 1973, will be considered by the Administrator before taking action upon the proposed rule.

The proposals contained in this notice may be changed in the light of comments received. All comments will be available, both before and after the closing date for comments in the Rules Docket for examination by interested persons.

The amendment is proposed under the authority of sections 313(a), 601 and 603 of the Federal Aviation Act of 1958 (49 U.S.C. 1354(a), 1421, 1423) and of section 6(c) of the Department of Transportation Act (49 U.S.C. 1655(c)).

In consideration of the foregoing, it is proposed to amend § 39.13 of Part 39 of the Federal Aviation Regulations by adding the following new airworthiness directive:

GRUMMAN AMERICAN AVIATION CORPORATION (GAAC); Applies to all Grumman Model G-159 airplanes certificated in all categories.

Compliance required as indicated.

To detect and prevent corrosion of the bore surfaces of the support tubes of the engine mount assemblies, left and right, Vickers drawing number 81037, sheet 29, accomplish the following:

(a) Engine mount inspection and reprotection categories are established as follows:
(1) Engine mount has not been inspected

for corrosion or reprotected since manufac-

(2) Engine mount has not been inspected for corrosion, but has been reprotected in accordance with Grumman Aircraft Engineer-ing Corporation (GAEC) Customer Bulletin (CB) Number 182 or an FAA approved equivalent

(3) Engine mount has been inspected for corrosion by X-ray or an FAA approved equivalent and reprotected in accordance with GAEC, CB Number 182 or an FAA approved equivalent, prior to September 1968.

(4) Engine mount has been inspected for corrosion by X-ray or an FAA approved equivalent and reprotected in accordance with GAEC, CB Number 182 or an FAA approved equivalent subsequent to September

(b) For categories (a) (1), (a) (2), and (a) (3) above, within 60 days from the effective date of this AD, comply with paragraph (d). Engine mounts inspected in accordance with paragraph (d)(3), found free of corrosion, and reprotected, must be reinspected and reprotected in accordance with paragraph (d) (3) at intervals not to exceed seven (7) years. The repetitive inspection may be discontinued when paragraph (d)(1) or (d)(2) is complied with.

(c) For category (a) (4) above, comply with paragraph (e) within seven (7) years from the date of initial inspection and reprotec-

(d) (1) Install a new engine mount which has been protected in accordance with GAAC CB Number 241, Addendum No. 1 or an FAA

approved equivalent, or

(2) Overhaul the engine mount in accordance with GAAC CB Number 241, Addendum No. 2 and reprotect in accordance with Addendum No. 1 or FAA approved equivalents,

(3) Inspect the engine mount for corresion in accordance with GAAC CB Number 241, Addendum No. 3, and reprotect in accordance with Addendum No. 1 or FAA approved equivalents

(e) (1) Install a new engine mount which has been protected in accordance with GAAC CB Number 241, Addendum No. 1, or an FAA approved equivalent, or

(2) Overhaul the engine mount in accordance with GAAC CB Number 241, Adden-dum No. 2, and protect in accordance with Addendum No. 1, or FAA approved equiva-

(f) If during the course of any inspection corrosion is discovered, comply with paragraph (e) before further flight.

(g) New or overhauled engine mounts which have been protected in accordance with GAAC CB Number 241, Addendum No. 1, or an equivalent, require no further action.

Issued in East Point, Georgia, on August 14, 1973.

DUANE W. FREER, Acting Director, Southern Region.

[FR Doc.73-18699 Filed 9-4-73;8:45 am]

Federal Aviation Administration

[14 CFR Parts 61 and 121]

[Docket No. 10453; Notice No. 73-23]

FLIGHT TRAINING AND FLIGHT CHECKING

Proposed Requirements

The Federal Aviation Administration is considering amending Parts 61 and 121 of the Federal Aviation Regulations to change certain flight training and flight checking requirements prescribed by those parts; to clarify certain requirement of Subpart N of Part 121 with respect to the requirement for FAA-approved check airmen used in training programs under Part 121; and to amend the proficiency check requirements of Subpart O to permit the entire proficiency check to be conducted in an approved visual simulator if the pilot being checked accomplishes two actual landings in the appropriate airplane, and if the next required proficiency check is conducted in the same manner or in accordance with Appendix F of Part 121.

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications should identify the regulatory docket or notice number and be submitted in duplicate to: Federal Aviation Administration, Office of the General Counsel, Attention: Rules Docket, AGC-24, 800 Independence Avenue SW., Washington, D.C. 20591. All communications received on or before December 6, 1973, will be considered by the Administrator before taking action on the proposed rule. The proposals contained in this notice may be changed in the light of comments received. All comments submitted will be available, both before and after the closing date for comments in the Rules Docket, for examination by interested persons.

In response to a number of petitions for rulemaking and recommendations received from the Air Transport Association of America (ATA), Western Airlines (WAL), American Airlines (AAL), and United Airlines (UAL), and pursuant to a continuing review by FAA of flight training and checking, and type rating programs, the FAA has decided to issue this NPRM which proposes changes to those programs that would permit more extensive use of flight simulators and training devices and would eliminate or clarify certain other requirements.

Insofar as the proposals contained in this notice are responsive to amendments petitioned for by ATA on May 13, 1971, and June 16, 1972, by WAL on April 21, 1971, by AAL on October 26, 1970, by UAL on May 6, 1971, and June 8, 1971, this notice should be considered as a partial grant of the rule making petitioned for. Changes or amendments recommended by the petitioners which are not included in this notice continue to be studied and will be treated further at a later time by rule making or otherwise.

No attempt has been made in this notice to identify those changes recommended by individual petitioners, or those which the FAA proposes on its own initiative. All of the changes proposed herein are calculated to make training and checking programs more efficient and more effective through selectively increased utilization of simulators and training devices.

The FAA has previously indicated its awareness of the rapidly developing field of simulator technology. Amendment 121-55 (35 FR 84, January 3, 1970), effective on February 2, 1970, which amended Part 61 and Part 121 training programs, stated that the FAA would continue to explore possibilities for translating that new technology into regulations which provide for the safest and most effective training programs possible, Recent operating experience and conclusions drawn from FAA surveillance of training and check programs support the validity of that poliy, and the proposals contained in this notice are made in furtherance of that policy.

Pursuant to an exemption from the requirements of § 121.424(b) and paragraph II(d) of Appendix E to Part 121 (Exemption No. 1318, issued May 14, 1971, and Exemption No. 1318B, issued December 10, 1971), issued in response to an ATA petition (on behalf of American, Delta, Eastern, Ozark, Pan American, Piedmont, Trans World, and United airlines), initial, upgrade, and transition flight training on takeoffs with a simulated failure of the most critical power-plant (after V₁ and before V₂) was conducted by these air carriers, with extending

sive use of visual and nonvisual simulators. This test training program was completed on May 20, 1972, and was conducted in an attempt to validate the theory that a satisfactory transfer of learning from the simulator to the airplane occurred when training in the "Engine-out" maneuver was conducted in a visual or nonvisual simulator.

The training program and study was conducted subject to certain conditions and limitations, as follows: (1) Each pilot trained under the exemption received V, engine-out training to proficiency in a visual simulator, a nonvisual simulator, or an airplane at altitude; (2) each pilot performed a minimum of one V₁ engine-out maneuver in the airplane during a PIC type rating flight test or second in command qualification flight check; (3) if a pilot's first V1 engine-out maneuver was unsatisfactory, it was counted as a failure for purposes of the test program (unless not the result of gross error and subject to retesting in the maneuver later in the flight test); if a second engine-out maneuver was performed unsatisfactorily, the pilot was issued a Notice of Disapproval of Application (FAA Form 8060-5) for an ATR or type rating; (4) pilots whose performance of the engine-out maneuver was unsatisfactory during the flight test in the airplane were required to be retrained in accordance with the certificate holders' approved training program; (5) the acceptable level of performance was that level applicable to the conduct of maneuvers required by Appendix A to Part 61; (6) data collection and compilation was made in a form and manner satisfactory to the Administrator.

Guidelines for performance evaluation by Airmen Certification Inspectors were issued (FAA Order 8430.9, June 18, 1971)

Data on 1,098 pilots trained and checked during the program was compiled. Of that number 715 (361 PIC's and 354 SIC's) were trained in the visual simulator, 376 (144 PIC's and 232 SIC's) were trained in the non-visual simulator, and seven were trained in the airplane at altitude. Flight checking resulted in 54 failures with an overall failure rate of 4.9 percent, which the FAA considers to be an acceptable value validating the "transfer of learning" theory and supporting the changes proposed herein permitting more extensive use of the visual simulator and non-visual simulator. The program results indicate that training on the engine-out maneuver can be successfully conducted in either the visual or non-visual simulator. However, since a higher failure rate of 7.8 percent was indicated for 204 pilots transitioning to airplanes with engines mounted in dissimilar positions (i.e., fuselage-mounted to wing-mounted), and for initial training (i.e., prop to jet), and because there is some degree of difficulty of assessing pilot performance of this VFR maneuver in a non-visual simulator, it is felt that training and checking for this maneuver, with certain specified exceptions, ought to be conducted in a visual simulator.

A clarifying change to § 121.401 of Part 121 is proposed to make it clear that the check airmen required to be provided for a training program must be "approved" check airmen.

It is proposed to amend § 121.441 to permit the entire proficiency check, other than the initial second-in-command proficiency check, to be conducted in an approved visual simulator if the pilot being checked accomplishes at least two landings in the appropriate airplane during a line check or other flight check conducted by a pilot check airman. If a pilot proficiency check is conducted in accordance with this provision. the next required proficiency check would have to be conducted in the same manner, or in accordance with the various and specific requirements of Appendix F of Part 121 and substitution of a course of training in an airplane simulator under \$ 121.409 would not be permitted. It is anticipated that this provision would afford substantial efficiencies and advantages in simulator use and in airplane utilization if line checks are conducted with the same frequency as required proficiency checks. However, the two required landings could be accomplished on a check flight other than a line check, at the option of the certificate holder.

Appendix A of Part 61 (Practical Test Requirements for Airline Transport Pilot Certificates and Associated Class and Type Ratings), and Appendices E (Flight Training Requirements) and F (Proficiency Check Requirements) of Part 121, would be changed as follows:

APPENDIX A TO PART 61

Paragraph I(a). Oral equipment examination may be waived by person conducting check if the applicant has satisfactorily completed, within the preceding 60 days, a Part 121 approved training program that includes training in a cockpit procedural trainer or simulator.

Par. II(d). For additional type rating in an airplane group with engines mounted in similar positions or from wing-mounted engines to aft fuselage-mounted engines the takeoff with failure of the most critical power plant may be performed in a nonvisual simulator.

Par. III(c)(2). Performance of the manually controlled ILS approach would be permitted in a visual simulator in lieu of inflight. The person conducting the check may require the maneuver to be performed inflight.

Par. III(d). The circling approach maneuver would not be required for a pilot employed by a certificate holder subject to the operating rules of Part 121 if the certificate holder's manual prohibits a circling approach to be conducted in weather conditions below 1,000—3 (ceiling and visibility).

Par. V(b). The landing in sequence from an ILS approach would be permitted in a visual simulator in lieu of in flight, and where a simulator approved for the landing maneuver out of an ILS approach is used, the approach may be continued through the landing, and credit given for one of the three landings

required by Section V. The person conducting the check may require the maneuver to be performed in flight.

Par. V(d). The maneuver to a landing with simulated powerplant failure would be permitted in a visual simulator for all airplanes (presently permitted only in 3-engine airplanes). Landing with simulated failure of the most critical powerplant would be required in flight if the applicant performs the simulated powerplant landing maneuver in a visual simulator. The person conducting the check may require the maneuver to be performed in flight.

Par. V(e). The circling approach maneuver would not be required for a pilot employed by a certificate holder subject to the operating rules of Part 121 if the certificate holder's manual prohibits a circling approach in weather conditions below 1,000-3 (ceiling and visibility).

V(g). The zero-flap visual approach would not be required if the Administrator has determined that the probability of flap extension failure on a specific airplane type is extremely remote due to system design. In making this determination, the Administrator determines whether checking on slats-only and partial-flap approaches is necessary.

APPENDIX E TO PART 121

Par. II(d). Takeoffs with a simulated failure of the most critical powerplant would be permitted to be accomplished in a visual simulator in place of the present requirement that they be performed in flight. For transition training in an airplane group with engines mounted in similar positions, or from wing-mounted to aft fuselage-mounted engines, the maneuver could be performed in a nonvisual simulator.

Par. II(e). Rejected takeoffs to be accomplished during a normal takeoff run would be permitted in a visual simulator

in lieu of inflight.

Par. III(a), (b), (e), (f) (10) and (11). Flight maneuvers and procedures under these paragraphs could all be accomplished in a nonvisual simulator.

Par. III(1)(2). Transition and upgrade training in ILS instrument approaches would be permitted in a visual simulator

in lieu of inflight.

Par. III(m)(1). All training in nonprecision approaches would be permitted in a training device in lieu of the present requirement for such training in a visual simulator.

Par. III(m) (2). The additional nonprecision instrument approach and missed approach required by this paragraph would be performed in a visual simulator.

Par. III(n). Transition and upgrade

training in circling approaches would be permitted in a visual simulator in lieu of the present in flight requirement. In addition, training in the circling approach maneuver would not be required for a second-in-command if the certificate holder's manual prohibits the SIC from performing a circling approach in operations under this Part.

Par. III(o). Transition and upgrade training in zero-flap approaches would be permitted in a visual simulator in lieu of the present inflight requirement. Training in the zero-flap maneuver would not be required if the Administrator has determined that the probability of flap extension failure on that type airplane is extremely remote due to system design. In making this determinathe Administrator determines tion. whether training on slats-only and partial-flap approaches is necessary.

Par. III(p)(1). Transition and upgrade training in missed approaches from ILS approaches would be permitted in the visual simulator in lieu of the

present inflight requirement.

Par. III(p)(2) and (3). All training in other missed approaches and missed approaches that include a complete approved missed approach procedure would be permitted in a training device in lieu of the present visual simulator requirement.

Par. III(p) (4). Transition and upgrade training in missed approaches that include a powerplant failure would be permitted in a visual simulator in lieu of the

present inflight requirement.

Par. IV(c). Transition and upgrade training for landing in sequence from an ILS instrument approach would be permitted in a visual simulator in lieu of the present inflight requirement.

Par. IV(e). Transition and upgrade training in maneuvering to a landing with simulated powerplant failure in all airplanes would be permitted in a visual simulator in lieu of the present inflight

requirement.

Par. IV(f). Transition and upgrade training for landing under simulated circling approach conditions would be permitted in a visual simulator in lieu of the present inflight requirement.

Par. IV(g). Transition and upgrade training in rejected landings would be permitted in a visual simulator in lieu of the present inflight requirement.

Par. IV(h). Transition and upgrade training in zero-flap landings would be permitted in a visual simulator in lieu of the present inflight requirement.

Par. IV(i). Initial, transition, and upgrade training in manual reversion would be permitted in a visual simulator in lieu of the present inflight requirement. For transition training in landings, the night

landing requirement may be met during the operating experience required by § 121.434 of this Part by performing a normal landing when a check pilot serving as pilot-in-command is occupying a pilot station.

APPENDIX F TO PART 121

Par. II(d). In an airplane group with aft fuselage-mounted engines, the takeoff maneuver with failure of the most critical powerplant would be permitted in a nonvisual simulator in lieu of a visual simulator.

Par. III(d). The circling approach maneuver would not be required for a second-in-command if the certificate holder's manual prohibits a second-incommand from performing a circling approach in operations under Part 121.

Par. III(e). The symbols "B" and "P"" would be deleted from the "Inflight" column (as superflous), and the symbol associated with III(e)(1) in the 'Visual Simulator" column changed to "B"." At least one missed approach would be required to be performed in

Par. V(d). The maneuver to a landing with simulated power plant failure would be permitted in a visual simulator for all airplanes (presently permitted only in 3-engine airplanes). Landing with simulated failure of the most critical power plant would be required in flight, if the pilot performs the simulated power plant landing maneuver in a visual simulator. For other than the pilot-in-command, the maneuver may be performed with a simulated loss of power of the most critical power plant only.

These amendments are proposed under the authority of sections 313(a), 601, 602, 604, and 607 of the Federal Aviation Act of 1958 (49 U.S.C. 1354(a), 1421, 1422, 1424, and 1427), and section 6(c) of the Department of Transportation Act (49 U.S.C. 1655(c)).

In consideration of the foregoing, it is proposed to amend Parts 61 and 121 of the Federal Aviation Regulations as set forth below.

Issued in Washington, D.C., on August 24, 1973.

> C. R. MELUGIN, Jr., Acting Director, Flight Standards Service.

1. It is proposed to amend paragraphs I(a), II(d), III(c), III(d), V(b), V(d), V(e), and V(g) of Appendix A of Part 61 to read as follows:

APPENDIX A

PRACTICAL TEST REQUIREMENTS FOR AIRLINE TRANSPORT CERTIFICATES AND ASSOCIATED CLASS AND TYPE RATINGS

	Requ in air	nired plane	Permitted							
Maneuver/procedures	Simulated Instrument conditions	Inflight	Visual	Nonvisual	Training	Walver provisions of § 61.147(c)				
I. Preflight. *(a) Equipment examination (oral). As part of the practical test, the equipment examination must be closely coordinated with, and related to, the flight maneuvers portion, but may not be given during the flight maneuvers portion. Notwithstanding § 61.21, the equipment examination may be given to an applicant who has completed a ground school that is part of an approved training program under Part 121 of this chapter for the airplane type involved and who is recommended by his instructor. The equipment examination may be waived by the person conducting the check if the applicant has satisfactorily completed, within the preceding 60 days, a Part 121 approved training program that includes training in a cockpit procedural trainer or simulator. The equipment examination must be repeated if the flight maneuvers portion is not satisfactorily completed within 60 days. The equipment examination must					×	×				
II. Takeoffs. **(d) Powerplant failure. One takeoff with a simulated failure of the most critical powerplant— (1) At a point after V ₁ and before V ₂ that in the judgment of the person conducting the check is appropriate to the airplane type under the prevailing conditions; or (2) At a point as close as possible after V ₁ when V ₂ and V ₃ or V ₁ and V ₂ are identical; or (3) At the appropriate speed for non-transport category airplanes. For additional type rating in an airplane group with engine mounted in similar positions or from wine mounted engine to			×							
mounted in similar positions or from wing mounted engines to all fuselege-mounted engines this maneuver may be performed in a non-visual simulator. III. Instrument Procedures. (c)										
#(2) At least one manually controlled ILS approach with a simulated failure of one powerpiant. The simulated failure should occur before initiating the final approach course and must continue to touchdown or through the missed ap- proach procedure.		×		×	-					
(i) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * * (2) * * (2) *			No. of Parties							
V. Landings and Approaches to Landings. #(b) Landing in sequence from an ILS instrument approach except that if circumstances beyond the control of the pilot prevent an actual landing, the person conducting the check may ac-		THE REAL PROPERTY.	×*							

100000000000000000000000000000000000000	plane	Permitted							
Simulated instrument conditions	Inflight	Visual	Nonvisual	Training	Walver provisions of § 01.147(c)				
	THE REAL PROPERTY.								
1			113	1	1,000				
		×.							
l c o		ו	N. S.						
	Simulated Instrument conditions		Z Z Z						

2. By amending § 121.401(a) (4) to read as follows:

§ 121.401 Training program: General.

(a) * * *

(4) Provide enough flight instructors, simulator instructors, and approved check airmen to conduct required flight training and flight checks, and simulator training courses permitted under this Part.

3. By amending § 121.441 by adding a new flush paragraph following paragraph (e) to read as follows:

§ 121.441 Proficiency checks.

(e) * * *

However, the entire proficiency check (other than the initial second-in-command proficiency check) required by this section may be conducted in an approved visual simulator if the pilot being checked accomplishes at least two landings in the appropriate airplane during a line check or other check conducted by a pilot check airman. If a pilot proficiency check is conducted in accordance with this paragraph, the next required proficiency check for that pilot must be conducted in the same manner, or in accordance with Appendix F of this part, and a course of training in an airplane simulator under § 121.409 may not be substituted therefor.

4. By amending paragraphs $\Pi(d)$; $\Pi(e)$; $\Pi(a)$, (b), (e), and (f) (10) and (11); $\Pi(d)$; $\Pi(m)$; $\Pi(m)$; $\Pi(o)$; $\Pi(g)$; $\Pi(g)$ (1); $\Pi(g)$ (2); $\Pi(g)$ (3); $\Pi(g)$ (4); $\Pi(g)$; $\Pi(g)$;

APPENDIX E

FLIGHT TRAINING REQUIREMENTS

		1	Initial	tr.			Tr	ansitio	n tr.		Upgrade tr.					
Manouvers/procedures	A	/P		Simu.		A	/P		Stmu.		A	/P		8tmu.		
	Inflight	Statio	Visual	Nonvisual	Training	Inflight	Statio	Visual	Nonvisual	Training	Inflight	Statio	Visual	Nonvisual	Traditing	
(d) Takeoffs: (d) Takeoffs with a simulated failure of the most critical powerplant— (1) At a point after V ₁ and before V ₂ that in the judgment of the person conducting the training is appropriate to the airplane type under the prevailing conditions; or (2) At a point as close as possible after V ₁ when V ₂ and V ₃ or V ₂ and V ₃ or V ₄ are identical; or (3) At the appropriate speed for nontransport entegory airplanes.			В					AT						BU		
For iransition training in an airplane group with engines mounted in similar positions, or from wing mounted engines to aft fuselage mounted engines, the maneuver may be performed in a nonvisual simulator. (c) Rejected takeoffs accomplished during a normal takeoff run after reaching a reasonable speed determined by giving due consideration to aircraft characteristics, runway length, surface conditions, wind direction and velocity, brake heat energy, and any other pertinent factors that may adversely affect safety or the airplane. Training in at least one of the above takeoffs must be accomplished at night.				В					AT		The state of the s	TO STATE OF THE PARTY OF THE PA			BU	
III. Flight Maneuvers and Procedures: (a) Turns with and without spoilers (b) Tuck and Mach buffet (c) (d)	100			ВВ					AT			1000		BU		
(d) (e) Hunaway and jammed stabilizer (f) Normal and abnormal or alternate operation of the following systems and procedures: (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) Automatic or other approach aids. (11) Stall warning devices, stall avoidance devices, and stability augmentation devices.				B					AT					BU BU		
(i) ILS instrument approaches that include the following: (ii) Normal ILS approaches (manually controlled). (2) Manually controlled ILS approaches with a simulated failure of one powerplant which occurs before initiating the final approach course and continues to touch down or through the missed approach procedure.	B					AT		AT			BU		BU			
(m) Instrument approaches and missed approaches other than ILS which include the following: (1) Nonprecision approaches that the trainee is likely to use. (2) In addition to subparagraph (1) of this paragraph, at least one other nonprecision approach and missed approach procedure that the trainee is likely to use.			В		В			AT		AT			BU		В	
(n) Circling approaches which include the following: (1) (2) (3)	В							AT		13			BU			
Training in the streling approach maneuver is not required for a SIC if the estilicate holder's manual prohibits the SIC from performing a circling approach in operations under this Part. (a) Zero-flap approaches. Training in this maneuver is not required for a particular airplane type if the Administrator has determined that the probability of flap extension failure on that type airplane is extremely remote due to system design. In making this determination, the Administrator determines whether training on siats only and partial flap approaches	В							AT				31	BU			
(p) Missed approaches which include the following: (1) Missed approaches from ILS approaches. (2) Other missed approaches. (3) Missed approaches that include a complete approved missed approache recording to the complete approaches.					B			AT		AT			BU		B	
(4) Missed approaches that include a powerplant failure		(55)				1		AT	- 1				BU	1		

		1	nitial t	r.		Transition tr.					Upgrade tr.					
	A	/P		Simu.		A	P.	Simu.			A/P		Simu.		8	
Maneuvers/procedures	Inflight	Static	Visual	Nonvisual	Training	Inflight	Statio	Visual stranlator	Nonvisual	Training	Inflight	Statio	Visual	Nonvisual	Training	
IV. Landings and Approaches to Landings.		The same			100			1.5								
(c) Landing in sequence from and ILS instrument approach	В							AT	-				BU	Er.		
(e) Maneuvering to a landing with simulated powerplant landre, as	1			139			I		1	1000			1231	1	E	
follows: (1) Except as provided in subparagraph (3) of this paragraph, in the case of 3-engine airplanes, maneuvering to a landing with an approved procedure that approximates the less of two powerplants (center and	P	T.	8			NA.	1	AT					BU		1	
one out-board engine). (2) Except as provided in subparagraph (3) of this paragraph, in the case of other multiengine airplanes, maneuvering to a landing with a simulated failure of 50 percent of available powerplants, with the simulated loss of power on one side of the airplane. (3) Notwithstanding the requirements of subparagraphs (1) and (2) of this paragraph, flight crewmembers who satisfy those requirements.	P		8	N. S.				AT	237				BU		100	
in a visual simulator must also: (1) Maneuver at altitude inflight with an approved procedure that approximates the loss of two powerplants (center and one outboard for 3-engine airplanes); or with the simulated failure of 50 percent of available powerplants (other multiengine airplanes) with the simulated loss of power on one side of the airplane; (ii) Take inflight training in one-engine inoperative landings;					The same of			11/2								
and (iii) In the case of flight crewmembers other than the pilot in command, perform the maneuver with the simulated less of power of the most critical powerplant only; and (iv) In the case of a second-in-command upgrading to a pilot-in-command and who has not previously performed the maneuvers required by this paragraph in flight, meet the requirements of this paragraph applicable to initial training for pilots-in-command. (f) Landing under simulated circling approach conditions. (g) Rejected landings that include a normal missed approach procedure after the landing is rejected. For the purpose of this maneuver the landing should be rejected at approximately 50 fest and approximately over the	ВВ							AT					BU			
runway threshold. (h) Zero-flap landings if the Administrator finds that maneuver appropriate for training in the airplane. (i) Manual reversion (if appropriate). Training in landings and approaches to landings must include the types and conditions provided in IV(a) through (i) but more than one type may	P		В					PP, PJ					PS BU		1	
be combined where appropriate. Training in one of the above landings must be accomplished at night. For transitioning pilots, this requirement may be met during the operating experience required under § 121.434 of this Part by performing a normal landing when a check pilot serving as pilot-in-command is occupying a pilot station.	В		No.			AT	100	1			BU				1	

5. By amending paragraphs II(d), III (d), III(e), V(d)(1), and V(d)(2), and adding a new paragraph immediately following V(d)(2) of Appendix F to Part 121 to read as follows:

APPENDIX F

PROFICIENCY CHECK REQUIREMENTS

	Req	uired	Permitted							
Maneuver/procedures	Simulated instrument conditions	Inflight	Visual	Nonvisual	Training	Walver provisions of § 121.441(d)				
II, Takeoffs.	350				Fal					
i(d) Powerplant failure. One takeoff with a simulated failure of the most critical powerplant— (1) At a point after V ₁ and before V ₂ that in the judgment of the person conducting the check is appropriate to the airplane type under the prevailing conditions; or (2) At a point as close as possible after V ₁ when V ₂ and V ₃ are identical; or (3) At the appropriate speed for non-transport category airplanes. In an airplane group with aft fuselage-mounted engines this maneuver may be performed in a non-visual simulator. (d) (1) (2) (3) (6) (7) (9) (9) (1) (1) (1) (2) (3) (4) (5) (6) (6) (7) (9) (9) (1) (1) (1) (2) (2) (3) (4) (5) (6) (6) (7) (7) (8) (9) (9) (9) (1) (1) (1) (2) (2) (3) (4) (5) (6) (6) (7) (7) (8) (9) (9) (9) (9) (10) (11) (12) (13) (14) (15) (16) (17) (17) (18) (18) (19) (19) (19) (20) (21) (21) (22) (23) (24) (25) (26) (27) (27) (28) (29) (29) (29) (20) (20) (20) (20) (21) (21) (22) (23) (23) (24) (25) (26) (27) (27) (27) (28) (29) (29) (29) (20) (20) (20) (20) (21) (21) (22) (23) (23) (24) (25) (26) (27) (27) (28) (29) (29) (29) (29) (20) (20) (20) (20) (21) (21) (22) (23) (23) (24) (25) (26) (27) (27) (28) (29) (29) (29) (29) (29) (20) (20) (20) (20) (20) (21) (21) (22) (23) (23) (24) (25) (26) (27) (27) (27) (28) (28) (29) (29) (29) (29) (29) (20) (20) (20) (20) (20) (20) (20) (20			В*							
operations under this Part.				100						
(e) Missed approach						17.00				
(1) Each pilot must perform at least one missed approach from an ILS approach. (2) Each pilot-in-command must perform at least one additional missed approach.			B*							
(d) Maneuvering to a landing with simulated powerplant		1000	N.	1245		- 110				
failure as follows: (i) In the case of 3-engine alrplanes, maneuvering to a landing with an approved procedure that approximates the less of two powerplants (center and one outboard engine); or (2) In the case of other multileogine airplanes, maneuvering to a landing with a simulated failure of 50 percent of available powerplants, with the simulated loss of power on one side of the airplane, with the simulated loss of power on one side of the airplane, with the simulated loss of power on one side of the simulated loss of subparagraphs (d) (1) and (2) of this paragraph, in a proficiency check for other than a plot in command, the simulated loss of power may be only the most critical powerplant. However, if a plot satisfies the requirements of subparagraphs (d) (1) or (2) of this paragraph in a visual simulator, he must, in addition, maneuver in flight to a landing with a simulated failure of the most critical powerplant.			B*							

[FR Doc.73-18624 Filed 9-4-73;8:45 am]

Federal Aviation Administration [14 CFR Part 71]

[Airspace Docket No. 73-SO-59]

TRANSITION AREA Proposed Alteration

The Federal Aviation Administration is considering an amendment to Part 71 of the Federal Aviation Regulations that would alter the Charleston, S.C. transition area.

Interested persons may submit such written data, views or arguments as they may desire. Communications should be submitted in triplicate to the Federal Aviation Administration, Southern Region, Air Traffic Division, P.O. Box 20636, Atlanta, Ga. 30320. All communications received on or before October 5, 1973, will be considered before action is taken on the proposed amendment. No hearing

iz contemplated at this time, but arrangements for informal conferences with Federal Aviation Administration officials may be made by contacting the Chief, Airspace and Procedures Branch. Any data, views, or arguments presented during such conferences must also be submitted in writing in accordance with this notice in order to become part of the record for consideration. The proposal contained in this notice may be changed in light of comments received.

The official docket will be available for examination by interested persons at the Federal Aviation Administration, Southern Region, Room 770, 3400 Whipple Street, East Point, Ga.

The Charleston transition area described in § 71.181 (38 FR 435) would be amended as follows:

will be considered before action is taken "* * long. 80°00'0" W.) * *" of authority by the Secretary on the proposed amendment. No hearing would be deleted and "* * long. 80°- portation at 49 CFR 1.48.

00'00" W.); within 3 miles each side of the 280° bearing from Johns Island RBN (lat 32°42'09" N., long. 80°00'10" W.), extending from the 6.5 mile radius area to 8.5 miles west of the RBN * * *" would be substituted therefor.

The proposed alteration is required to provide controlled airspace protection for IFR aircraft executing the proposed NDB RWY 9 Instrument Approach Procedure to Johns Island Airport, utilizing the Johns Island (private) Nondirectional Radio Beacon.

(Sec. 307(a), Federal Aviation Act of 1958 (49 U.S.C. 1348(a)); Sec. 6(c), Department of Transportation Act (49 U.S.C. 1655(e)).)

Issued in East Point, Ga., on August 24, 1973.

DUANE W. FREER, Acting Director, Southern Region. [FR Doc.73-18698 Filed 9-4-73;8:45 am]

Federal Highway Administration [23 CFR Part 770]

AIR QUALITY GUIDELINES FOR USE IN FEDERAL-AID HIGHWAY PROGRAMS

Proposed Guidelines

Pursuant to the requirement in section 109(b) of the Federal-Aid Highway Act of 1970 (23 U.S.C. 109(j)) the Federal Highway Administration proposes to issue guidelines to assure that highways constructed pursuant to Title 23, United States Code, are consistent with any approved plan for the implementation of any ambient air quality standard for any air quality control region designated pursuant to the Clean Air Act, as amended (42 U.S.C. 1857, et seq.).

Also, pursuant to section 4332(2) (C), title 42, U.S.C., the Federal Highway Administration has prepared a draft environmental impact statement for the proposed air quality guidelines. Copies of the draft environmental impact statement may be obtained for review by writing to the Environmental Development Division, Office of Environmental Policy, Federal Highway Administration, Washington, D.C. 20590.

Interested persons may participate in the proposed promulgation of air quality guidelines by submitting such written data, views, or arguments as they may desire. Comments may also be submitted on the draft environmental impact statement. Communications should be submitted to the above address before October 15, 1973. All such communications will be considered before action is taken on the proposed guidelines. Copies of all such submissions received will be available for examination at the Office of the Environmental Development Division, Federal Highway Administration, Room 3246, 400 7th Street SW., Washington, D.C.

This notice of proposed guidelines is issued under the authority of Section 6 of the Department of Transportation Act. 49 U.S.C. 1655, and the delegation of authority by the Secretary of Transportation at 49 CFR 148

The guidelines proposed as Part 770. Subpart B of Title 23, Code of Federal Regulations, are set forth below.

Issued on August 30, 1973.

NORBERT T. TIEMANN, Federal Highway Administrator.

Chapter 1 of Title 23, CFR, would be amended by adding a new part, "Part 770, Subpart B-Air Quality Guidelines" as follows:

PART 770

Subpart B-Air Quality Guidelines

770,200 Purpose.

Definitions for use in this memo-770.201 randum.

Policy. 770.202

Application. 770.203 770.204 Procedure.

AUTHORITY: 23 U.S.C. 109(j),23 U.S.C. 315, and 49 CFR 1.48(b).

§ 770.200 Purpose.

To promulgate air quality guidelines for use in planning and construction of proposed highway improvements constructed pursuant to United States Code, Title 23.

§ 770.201 Definitions for use in this memorandum.

(a) Highway agency.-The agency with the primary responsibility for initiating and implementing the planning, design, and construction of highways. For highway sections financed with Federal-aid highway funds, the highway agency will generally be the appropriate State highway department or State department of transportation.

(b) Environmental Protection Agency (EPA) .- The Federal agency established pursuant to 5 U.S.C., App. Reorganiza-

tion Plan of 1970, No. 3.

(c) Environmental impact statement (EIS) .- A detailed statement prepared in response to 42 U.S.C., 4332 (section 102(2) (C) of the National Environmental Policy Act of 1969).

(d) Urban Transportation Planning Process (3-C) Planning Process) .- The continuing, comprehensive and cooperative planning process established pur-

suant to 23 U.S.C., 134.

- (e) Policy Board (Policy Committee, Coordinating Committee, etc.) .- That group of local officials, individuals, or representatives of agencies or organizations which has been designated by the State to provide policy guidance and direction in the conduct of the urban transportation planning process in an urbanized area.
- (f) Urban transportation plans and programs.-Proposed areawide plans and proposed capital improvement programs developed through the urban transportation planning process.
- (g) National Ambient Air Quality Standards,—The National Ambient Air Quality Standards established pursuant to 42 U.S.C., 1857 (section 109 of the Clean Air Act of 1970).
- (h) Air quality control region .- An interstate or intrastate area designated by the Administrator of EPA pursuant to

42 U.S.C. 1857 (section 107 of the Clean Air Act of 1970).

(i) Highway Section .- A highway development proposal of substantial length between logical termini (major crossroads, population centers, major traffic generators, or similar major highway control elements) as normally included in a single location study or multiyear highway improvement program.

(j) Highway project.-All or a portion of a highway section which would result in a specific construction contract.

(k) Air pollution control agency.-The State, local, or multi-State agency as defined by 42 U.S.C., 1857 (section 302(b) of the Clean Air Act of 1970).

State implementation plan (1) (SIP) .- The plan required by 42 U.S.C. 1857 (section 110 of the Clean Air Act of 1970), to attain and maintain a national ambient air quality standard.

§ 770.202 Policy.

Highway agencies planning, constructing, and maintaining highways pursuant to 23 U.S.C., shall consult with appropriate local, State and Federal air pollution control agencies and assure that decisions on highways are consistent with approved State Implementation Plans and that adequate consideration is given to preservation and enhancement of air quality.

§ 770.203 Application.

- (a) The continuing review procedure described in § 770.204a shall be a requirement for each transportation planning process established pursuant to 23 U.S.C., 134. The requirements set forth in § 770.204a shall initially be accomplished by April 1, 1974, and shall thereafter be reviewed as a part of subsequent annual certification actions.
- (b) The procedures for consideration of air quality described in § 770.204b shall apply to the processing of proposed Federal-aid highway construction projects.
- (c) The procedure for review of construction specifications described in § 770.204b shall be accomplished by April 1, 1974. The changes in specifications resulting from this procedure shall be reflected in all plan specification and estimate (PS&E) submissions received after July 1, 1974.

§ 770.204 Procedures.

Comprehensive planning for land use, air quality and transportation are interdependent. These planning activities should be closely coordinated in the conceptual stages and throughout the highway project development process. The highway agency shall follow the appropriate procedures outlined in paragraphs (a) through (c) of this section in order to assure that the planning and construction of highways are consistent with the State Implementation Plan for attainment and maintenance of air quality standards.

(a) Urban transportation plans and programs.-(1) To insure that land use and transportation planning conducted pursuant to 23 U.S.C. 134 and air quality

planning conducted pursuant to 42 U.S.C. 1857 and the plans resulting therefrom are coordinated, the responsible highway agency in cooperation with each 3C planning agency shall establish a continuing review procedure with the cognizant air pollution control agency

(i) Assess the consistency of the transportation plan and program with the approved State Implementation Plan:

(ii) Annually solicit comments from the cognizant air pollution control agency including its assessment of the consistency of the plan and program with the approved State Implementation Plan prior to plan approval by the policy board.

(iii) Identify and resolve differences with the cognizant air pollution control

agency

(2) The highway agency shall require the policy board to annually determine the consistency of the current transportation plan and program with the approved State Implementation Plan. The highway agency shall furnish FHWA a record of this determination along with any written comments solicited from the cognizant air pollution control agency and the policy boards' disposition of these comments.

- (3) The Regional Federal Administrator, in consultation with the Regional Administrator of the Environmental Protection Agency, shall annually review the record on the determination of consistency of the transportation plan and program with the approved State Implementation Plan as specified in paragraph (2) above and shall assess the degree of coordination in the planning process between planning for transportation and air quality planning. Any deficiencies shall be cited to the highway agency. Significant deficiencies shall be considered grounds for withholding planning certification.
- (b) Highway projects.-(1) The following procedures shall apply to highway sections for which an environmental impact statement (EIS) is circulated or a negative declaration is considered by the FHWA division engineer after October 15,
- (i) The environmental analysis necessary to determine the need for an EIS should include an appropriate consideration of air quality.
- (ii) The level of detail of the air quality analysis for the highway section shall be commensurate with the complexity of the highway proposal and with prevalent meteorological conditions, If implementation of the highway proposal is anticipated to have a significant air quality impact, comments on the consistency of the highway proposal with the approved State Implementation Plan shall be solicited from the cognizant air pollution control agency.
- (iii) The draft EIS shall include an identification of the air quality impact of the proposal, a brief summary of the results of consultation with the cognizant air pollution control agency, comments

received from the cognizant air pollution control agency, and the highway agency's tentative finding on the consistency of each alternative under consideration with the approved State Implementation Plan.

(iv) The final EIS shall, as may be necessary, refine and update the information included in the draft EIS.

- (v) The final EIS may be adopted by the FHWA only after a determination that the proposed highway improvement is consistent with the State Implementation Plan. The determination on consistency shall be made by the Regional Federal Highway Administrator. In making this determination the Regional Federal Highway Administrator shall consider the following:
- (A) The comments received from the cognizant air pollution control agency resulting from the requirements of §§ 770.204a and 770.204b and those of the agency designated pursuant to 40 CFR. 51.18 (38 FR 15834, June 18, 1973). Where issues raised by either agency have not been resolved by the highway agency or division engineer prior to submission of the EIS to the FHWA Regional Administrator, the Regional Pederal Highway Administrator shall not make a positive determination of consistency without first consulting with the EPA Regional Administrator.

(B) The adequacy and the conclusions of the air quality analysis made as a part of the location study and summarized in the EIS.

(C) Comments received as part of the EIS procedure and the disposition of these comments.

(vi) For those highway improvements for which a negative declaration is prepared, the FHWA division engineer's concurrence in the document shall be evidence that he has determined that the proposal will have no significant air quality impacts,

(2) The following procedures shall apply to the consideration of air quality for those highway sections for which the draft EIS is (or was) circulated for comment, but for which a final EIS is not adopted by the FHWA Regional Administrator prior to October 15, 1973:

(i) Prior to the processing of final EIS, the highway agency, in consultation with the FHWA division engineer, shall review the draft EIS and make a written determination on the adequacy of the air quality discussion included in the draft EIS. If the determination is positive, the final EIS may be processed following procedures established in PPM 90-1. The adoption of the final EIS by the Regional Federal Administrator shall be evidence of his positive finding on the consistency of the proposal with the State Implementation Plan.

(ii) If the determination concludes that additional information and/or analysis are necessary, the draft EIS shall be revised accordingly. A copy of the revised draft EIS shall then be furnished to appropriate local, State or Federal agencies with expertise in air quality for review and comment. Thirty days should be allowed for comment by interested agencies.

(iii) Comments received shall be incorporated and addressed in the final EIS as required in PPM 90-1. Adoption of the final EIS by the Regional Federal Highway Administrator shall be evidence of his positive finding on the consistency of the proposal with the State Implementation Plan.

(3) The following procedures shall apply to those highway sections for which a final EIS is approved by the Regional Federal Highway Administrator before October 15, 1973, and for which authorization to proceed with grading and drainage work on the highway section are requested after January 1, 1974:

(i) Prior to requesting additional FHWA authorizations (except preliminary engineering), the highway agency, in consultation with the FHWA division engineer, shall review the final EIS and make a written determination on the adequacy of the discussion of air quality included in the final EIS. If the determination is positive, concurrence by the FHWA division engineer shall be evidence of his finding that the highway proposal is consistent with the State Implementation Plan.

(ii) If the determination concludes that additional information or analysis are necessary, a supplemental EIS shall be prepared and distributed for review and comment to appropriate local, State and Federal agencies with expertise in air quality. Thirty days shall be allowed for comment by interested agencies.

(iii) Comments received shall be processed following the procedures outlined in PPM 90-1. Adoption of the supplement to the final EIS by the Regional Federal Highway Administrator shall be evidence of his positive finding on the consistency of the highway proposal with the State Implementation Plan.

(c) Construction of highways.—(1) The highway agency shall review its current construction specifications to determine whether allowable construction procedures, or the use of specific equipment or materials are consistent with the State Implementation Plan. As a part of this review the highway agency shall send a copy of its construction specifications to the cognizant air pollution control agency for review and comment.

(2) Comments received from the cognizant air pollution control agency and revisions to the construction specifications resulting from reviews by both agencies shall be sent to FHWA for approval.

(3) A smilar review procedure shall be followed whenever the highway agency determines that significant changes have been made in either the highway agency specifications affecting air quality or in the State Implementation Plan.

Effective date.—August 30, 1973. [FR Doc.73-18719 Filed 9-4-73;8:45 am]

COST ACCOUNTING STANDARDS BOARD

[4 CFR Parts 331, 351, 400, 401, 402, 403, 404]

NEGOTIATED DEFENSE PRIME CONTRACTS AND SUBCONTRACTS

Miscellaneous Amendments

Parts 331, 351, 401, and 402, and portions of part 400 of the Cost Accounting Standards Board's Standards, rules and regulations have been required for use in negotiated defense prime contracts and subcontracts since October 1, 1972. Parts 403 and 404 of the Board's rules and regulations have been included in such contracts since July 1, 1973. The Board believes that minor changes to those regulations will clarify the understanding of all who use them. It therefore proposes to amend those parts as indicated below. None of the proposed amendments modifies the meaning and effect of the affected materials, and the Board does not believe that the amendments proposed, if finally adopted, make substantive changes in any of those is-

The Board, in publishing these proposed amendments for comment, intends to provide maximum public notice and opportunity for the public to participate in its deliberations. The Board notes, however, that since the proposed amendments do not modify its published rules, regulations and Cost Accounting Standards, but only clarify them, publication and promulgation as described in section 7191(A) of Public Law 91-379 are not required. The proposed changes are summarized in the following paragraphs.

Parts 331 and 351 are renumbered to facilitate insertion of any future amendments or modifications to those parts.

The contract clause at § 331.5 is modified to restate the fact that the benefits to contractors who have not been required to file a Disclosure Statement are equal to the benefits provided to contractors who have filed such a Statement. Those benefits are in fact already derived from section (a) (5) of the Contract Clause, but the proposed amendment of section (a) (4) of that Clause states this fact more clearly.

Parts 401, 402, 403, and 404, containing Cost Accounting Standards and Part 400, Definitions, are modified to make all definitions set out in these parts uniform between Part 400 and the individual Cost Accounting Standards and to follow the practice of defining phrases only in the singular. Nonetheless in determining the meaning of any Standard, words importing the singular shall extend to the plural and words importing the plural shall include the singular unless the context shows clearly that a more limited meaning was intended.

The Cost Accounting Standards Board solicits comment on the proposed amendments from any interested persons on any matter which will assist the Board in its consideration of the amendments. Interested persons should sub-

mit written data, advice and arguments concerning the proposed amendments to the Cost Accounting Standards Board, 441 G Street NW., Washington, D.C. 20548.

To be given consideration by the Board in its determination relative to final adoption of the proposed amendments, written comments must be made to arrive no later than October 8, 1973, All written comments made pursuant to this notice will be made available for public inspection at the Board's offices during regular business hours.

1. Changes in section numbering in Part 331 and Part 351. Also revision in wording of paragraph (a) 4 of § 331.50 Contract Clause, Parts 331 and 351 of Title 4 of the Code of Federal Regulations would be revised to read as follows:

PART 331-CONTRACT COVERAGE

Sec.

331.10 Purpose and scope.

Definitions

331.30 Applicability, exemption, and waiver,

Solicitation notice. 331.40 231.50 Contract clause.

331.60 Post-award disclosure.

331.70 Interpretation.

Effective date.

AUTHORITY: Sec. 103, 84 Stat. 796 (50 U.S.C. App. 2168).

§ 331.10 Purpose and scope.

The regulations contained in this part are promulgated to implement the standards and the rules and regulations established by the Cost Accounting Standards Board pursuant to 50 U.S.C. App. 2168 (Public Law 91-379, August 15, 1970). The requirements set forth herein shall be binding upon all relevant Federal agencies and upon defense contractors and subcontractors.

§ 331.20 Definitions.

(a) A "relevant Federal agency" is any Federal agency making a national defense procurement and any agency whose responsibilities include review, approval, or other action affecting such a procurement.

(b) A "defense contractor" is any contractor entering into a contract with the United States for the production of material or the performance of services for the national defense.

(c) A "defense subcontractor" is any person other than the United States who contracts, at any tier, to perform any part of a defense contractor's contract.

(d) "National defense" is any program for military and atomic energy production or construction, military assistance to any foreign nations, stockpiling, space, and directly related activity.

(e) The definition of "established catalog or market prices of commercial items sold in substantial quantities to the general public" set out in the Armed Services Procurement regulation (32 CFR 3.807-1(b)), in effect at the date of the contract, shall be used.

(f) A "negotiated subcontract" is any subcontract except a firm fixed-price subcontract made by a contractor or subcontractor after receiving offers from at

least two firms not associated with each other or such contractor or subcontractor, providing (1) the solicitation to all competing firms is identical, (2) price is the only consideration in selecting the subcontractor from among the competing firms solicited, and (3) the lowest offer received in compliance with the solicitation from among those solicited is accepted.

(g) A "Disclosure Statement" is the Disclosure Statement required by Cost Accounting Standards Board regulation (Part 351 of this chapter).

§ 331.30 Applicability, exemption, and waiver.

(a) The head of each relevant Federal agency shall cause or require the clause set forth in § 331.50 captioned COST ACCOUNTING STANDARDS to be inserted in all negotiated defense contracts in excess of \$100,000, other than contracts entered into by the agency where the price is based on: (1) Established catalog or market prices of commercial items sold in substantial quantities to the general public, or (2) prices set by law or regulation. Additionally, all solicitations, likely to result in a contract in which the clause set forth in \$ 331.50 must be inserted, shall include the notice set forth in § 331.40 captioned DISCLOSURE STATEMENT-COST ACCOUNTING PRACTICES AND CERTIFICATION.

(b) The requirements of paragraph (a) of this section shall not be applicable to:

(1) Any contract made pursuant to a special method of procurement known as "Small Business Restricted Advertising":

(2) Any contract made with a small business pursuant to partial small business set-aside procedures; or

(3) Any contract entered into under authority of section 8(a) of the Small Business Act (15 U.S.C. 637(a)).

(4) Any contract made with a labor surplus area concern pursuant to procedures providing for a partial set-aside for such concern as set out in ASPR 1-804, 32 CFR 1.804; and FPR 1-1.804, 41 CFR 1-1.804.

(5) Any contract awarded to the Canadian Commercial Corp. in accordance with the terms of the agreement of July 27, 1956, as amended, between the Department of Defence Production (Canada) and the U.S. Departments of the Army, the Navy, the Air Force, and the Defense Supply Agency.

(6) Any contract awarded to Western Electric Co. for materials, supplies, or services which are standard items of the Bell System. This paragraph 6 expires on June 30, 1973.

(c) (1) Upon request of the Secretary of Defense, the Deputy Secretary of Defense, or the Assistant Secretary of Defense (Installation and Logistics), or outside the Department of Defense, of officlals in equivalent positions, the Cost Accounting Standards Board may waive all or any part of the requirements of paragraph (a) of this section with respect to a contract or subcontract to be

performed within the United States, or a contract or subcontract to be performed outside the United States by a domestic concern. A domestic concern is an incorporated concern incorporated in the United States or an unincorporated concern having its principal place of business in the United States. (In the context of this subparagraph, "concern" refers to a prospective or actual contractor. Thus, a contract with a foreign subsidiary or foreign branch or business office of a U.S. corporation would not be a contract with a domestic concern. Conversely, a contract executed by a foreign salesman or agent on behalf of a domestic concern would nevertheless be a contract with a domestic concern since the basic contractual and legal responsibility resides with the domestic concern.) Any request for a waiver shall describe the proposed contract or subcontract for which waiver is sought and shall contain (i) an unequivocal statement that the proposed contractor or subcontractor refuses to accept a contract containing all or a specified part of the Cost Accounting Standards clause and the specific reason for that refusal, (ii) a statement whether the proposed contractor or subcontractor has accepted any prime contract or subcontract with any Federal department or agency containing the Cost Accounting Standards clause, (iii) the amount of the proposed award and the sum of all awards by the department or agency requesting the waiver to the proposed contractor or subcontractor in each of the preceding 3 years, (iv) a statement that no other source of the supplies or services being procured is available to satisfy the needs of the agency on a timely basis, (v) a statement of any alternative methods of fulfilling the project or program needs and the agency's reasons for rejecting such alternatives, (vi) a statement of the steps being taken by the procuring agency to establish other sources of supply for future procurements of the products or services for which a walver is being requested, and (vii) any other information that may aid the Board in evaluating the requested waiver.

(2) Upon request of the Secretary of Defense, the Deputy Secretary of Defense, or the Assistant Secretary of Defense (Installation and Logistics), or outside the Department of Defense, of officials in equivalent positions, the Cost Accounting Standards Board may waive all or any part of the requirements of paragraph (a) of this section with respect to a proposed contract or subcontract to be performed outside the United States by a foreign government or a foreign concern. A foreign concern is a concern that is not a domestic concern, as defined in paragraph (c) (1) of this section. Any request for a waiver shall describe the proposed contract or subcontract for which waiver is sought and shall contain (i) the amount of the proposed award and the sum of all awards by the department or agency requesting the waiver to the proposed contractor or subcontractor in each of the preceding 3 years, (ii) a statement that no other source of the supplies or services being procured is available to satisfy the needs of the agency on a timely basis, (iii) a statement of any alternative methods of fulfilling the project or program needs and the agency's reasons for rejecting such alternatives, (iv) a statement of the steps being taken by the procuring agency to establish other sources of supply for future procurements of the products or services for which a waiver is being requested, and (v) any other information that may aid the Board in evaluating the requested waiver.

(3) In the event the agency head determines that it is impractical to secure a required Disclosure Statement in accordance with the contract clause and § 331.60, he may authorize award of such contract or subcontract. He shall within 30 days thereafter submit a report to the Cost Accounting Standards Board, setting forth all material facts.

(4) The authority in this § 331.30(c) shall not be delegated.

§ 331.40 Solicitation notice.

DISCLOSURE STATEMENT—COST ACCOUNTING
PRACTICES AND CERTIFICATION

(a) Any contract in excess of \$100,000 resulting from this solicitation; except contracts where the price negotiated is based on: (a) Established catalog or market prices of commercial items sold in substantial quantities to the general public, or (b) prices set by law or regulation, will be subject to the requirements of the Cost Accounting Standards Board. Any offeror submitting a proposal, which, if accepted, will result in a contract subject to the requirements of the Cost Accounting Standards Board must, as a condition of contracting, submit a Disclosure Statement as required by regulations of the Board. The Disclosure Statement must be submitted as a part of the offeror's proposal under this solicitation unless, in compliance with agency procedures, the offeror has al-ready submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this proposal, or unless post-award submission has been authorized by the Contracting Officer in accordance with regulations of the Cost Accounting Standards Board (see 4 CFR 331.60). If an applicable Disclosure Statement has already been submitted, the offeror may satisfy the requirement for submission by providing the following information: 1

CIETIFICATION (APPLICABLE ONLY TO PRO-POSALS RESULTING IN CONTRACTS SUBJECT TO COST ACCOUNTING STANDARD BOARD REQUIREMENTS)

By submission of this offer, the offeror certifies that his practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the applicable Disclosure Statement.

§ 331.50 Contract clause.

The following clause shall be inserted in all contracts subject to Cost Accounting Standards Board requirements:

COST ACCOUNTING STANDARDS

(a) Unless the Cost Accounting Standards Board has prescribed rules or regulations exempting the contractor or this contract from

¹ (The agency issuing the solicitation should specify the data which it will accept if any in lieu of resubmission of a Disclosure Statement already submitted.) standards, rules, and regulations promulgated pursuant to 50 U.S.C. App. 2168 (Public Law 91-379, August 15, 1970), the contractor, in connection with this contract shall:

(1) By submission of a Disclosure Statement, disclose in writing his cost accounting practices as required by regulations of the Cost Accounting Standards Board. The required disclosures must be made prior to contract award unless the Contracting Officer provides a written notice to the contractor authorizing post-award submission in accordance with regulations of the Cost Accounting Standards Board. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the contractor and which contain this Cost Accounting Standards clause. If the contractor has notified the Contracting Office that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement will be protected and will not be released outside of the Government.

(2) Follow consistently the cost accounting practices disclosed pursuant to paragraph (a)(1) of this section in accumulating and reporting contract performance cost data concerning this contract. If any change in disclosed practices is made for purposes of any contract or subcontract subject to Cost Accounting Standards Board requirements, the change must be applied prospectively to this contract, and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with paragraph (a) (4) or (a) (5) of this section, as appropriate.

(3) Comply with all Cost Accounting Standards in effect on the date of award of this contract or if the contractor has submitted cost or pricing data, on the date of final agreement on price as shown on the contractor's signed certificate of current cost or pricing data. The contractor shall also comply with any Cost Accounting Standard which hereafter becomes applicable to a contract or subcontract of the contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

(4) (1) Agree to an equitable adjustment as provided in the changes clause of this contract if the contract cost is affected by a change which, pursuant to paragraph (a) (3) of this section, the contractor is required to make to his established cost accounting practices whether such practices are covered by a Disclosure Statement or not.

(ii) Negotiate with the contracting officerto determine the terms and conditions under which a change to either a disclosed cost accounting practice or an established cost accounting practice, other than a change under paragraph (a) (4) (i) of this section, may be made. A change to a practice may be proposed by either the Government or the contractor, provided, however, that no agreement may be made under this provision that will increase costs paid by the United States.

(5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if he or a subcontractor fails to comply with an applicable Cost Accounting Standard or to follow any practice disclosed pursuant to paragraphs (a) (1) and (a) (2) of this section and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States together with interest thereon computed at the rate determined by the Secretary of the Treasury pursuant to Public Law 92-41, 85 Stat. 97, or 7 percent per annum, whichever is less, from the time the payment by the United States

was made to the time the adjustment is effected.

(b) If the parties fail to agree whether the contractor or a subcontractor has complied with an applicable Cost Accounting Standard, rule, or regulation of the cost Accounting Standards Board and as to any cost adjustment demanded by the United States, such failure to agree shall be a dispute concerning a question of fact within the meaning of the disputes clause of this contract,

(c) The contractor shall permit any authorized representatives of the head of the agency, of the Cost Accounting Standards Board, or of the Comptroller General of the United States to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.

(d) The contractor shall include in all negotiated subcontracts which he enters into the substance of this clause except paragraph (b) of this section, and shall require such inclusion in all other subcontracts or any tier, except that this requirement shall apply only to negotiated subcontracts in excess of \$100,000 where the price negotiated is not based on:

 Established catalog or market prices of commercial items sold in substantial quantities to the general public, or

(2) Prices set by law or regulation.

However, if this is a contract with an agency which permits subcontracts to appeal final decisions of the contracting officer directly to the head of the agency or his duly authorized representative, then the contractor shall include the substance of paragraph (b) as well.

Note: In any case where a subcontractor determines that the Disclosure Statement information is privileged and confidential and declines to provide it to his contractor or higher tier subcontractor, the contractor may authorize direct submission of that subcontractor's Disclosure Statement to the same Government offices to which the contractor was required to make submission of his Disclosure Statement, Such authorization shall in no way relieve the contractor of liability as provided in paragraph (a)(5) of this clause. In view of the foregoing and since the contract may be subject to adjustment under this clause by reason of any failure to comply with rules, regulations, and Standards of the Cost Accounting Standards Board in connection with covered subcontracts, it is expected that the contractor may wish to include a clause in each such subcontract requiring the subcontractor to appropriately indemnify the contractor. However, the inclusion of such a clause and the terms thereof are matters for negotiation and agreement between the contractor and the subcontractor, provided that they do not conflict with the duties of the contractor under its contract with the Gov-ernment. It is also expected that any subcontractor subject to such indemnification will generally require substantially similar indemnification to be submitted by his subcontractors.

(e) The terms defined in § 331.20 of Part 331 of Title 4, Code of Federal Regulations (4 CFR 331.20) shall have the same meanings herein. As there defined, "negotiated subcontract" means "any subcontract except a firm fixed-price subcontract made by a contractor or subcontractor after receiving offers from at least two firms not associated with each other or such contractor or subcontractor, providing (1) the solicitation to all competing firms is identical, (2) price is the only consideration in selecting the subcontractor from among the competing firms solicited, and (3) the lowest offer received in compliance with the solicitation from among those solicited is accepted."

§ 331.60 Post-award disclosure.

(a) As specified in the solicitation notice and contract clause set forth in § 331.50, Disclosure Statements must be submitted by offerors required to make disclosure prior to contract award unless the contracting officer authorizes in writing post-award submission. As specified in the contract clause set forth in § 331.50, Disclosure Statements must be submitted by prospective subcontractors required to make disclosure prior to subcontract award unless the contracting officer at the request of the contractor authorizes in writing post-award submission.

(b) Post-award submission may be authorized only when the contracting officer has made a written determination that such authorization is essential (1) to the national defense, (2) because of the public exigency, or (3) to avoid undue hardship. Each determination shall set forth facts which clearly support the determination to authorize post-award submission, and a copy of the determination shall be included in the contract file. Authorization issued pursuant to this paragraph shall specify the time, not to exceed 90 days after contract or subcontract award, by which disclosure must be made.

§ 331.70 Interpretation.

(a) Increased costs paid by the United States as referred to in paragraph (a) (5) of the Cost Accounting Standards clause in § 331.50 shall be deemed to have resulted whenever the cost paid by the Government results from application of practices other than the contractor's disclosed practices or from failure to comply with applicable Cost Accounting Standards, and such cost is higher than it would have been had the disclosed practices been followed or applicable Cost Accounting Standards been complied with.

(b) In negotiated firm fixed-price type contracts, however, "increased costs" cannot be interpreted in terms of a higher level of costs reimbursed during contract performance, since in such contracts the price to be paid would normally be the price agreed to. That price will have been based on the requirement that the contractor use his disclosed practices and comply with applicable Cost Accounting Standards. Subsequently, if the contractor falls during contract performance to follow his disclosed practices or to comply with applicable Cost Accounting Standards, any increased cost to the United States by reason of that failure must be measured by the difference between the cost estimates used in negotiations and the cost estimates that would have been used had the contractor proposed on the basis of the practices actually used during contract performance. (In cases where an offset of decreased costs allocated to firm fixed-price contracts against increased costs allocated to cost reimbursement type contracts may be involved, the provisions of paragraph (f) of this section shall apply.)

(c) The statutory requirement underlying this interpretation is that the United States not pay increased costs, including a profit enlarged beyond that in the contemplation of the parties to the contract when the contract costs, price, or profit is negotiated, by reason of a contractor's failure to use applicable Cost Accounting Standards or to follow his disclosed practices. In making price adjustments under paragraph (a) (5) of the Cost Accounting Standards clause in § 331.50, in fixed-price or cost-reimbursement incentive contracts, or contracts providing for prospective or retroactive price redetermination, the Federal agency shall apply this requirement appropriately in the circumstances.

(d) The contractor and the contracting officer may enter into an agreement as contemplated by paragraph (a) (4) (B) of the Cost Accounting Standards clause in § 331.50, covering a change in practice proposed by the Government or the contractor for all of the contractor's contracts for which the contracting officer is responsible, provided that the agreement does not permit any increase in the cost paid by the Government. Such agreement may be made final and binding, notwithstanding the fact that experience may subsequently establish that the actual impact of the change differed from that agreed to.

(e) To facilitate agreements with a contractor who has a large number of contracts affected by a proposed change in his disclosed cost accounting practices or affected by application of Cost Accounting Standards, contracting agencies are urged to establish procedures under which the contractor may seek, and in proper cases obtain, agreement with a single official concerning the impact of the proposed change or application of standards upon all such contracts of that agency.

(f) In one circumstance an adjustment to the contract price or of cost allowances pursuant to paragraph (a) (4) (B) of the Cost Accounting Standards clause in § 331.50 may not be required when an amendment to disclosed or established practices is estimated to result in increased costs being paid under a particular contract by the United States. This circumstance may arise when a contractor is performing two or more contracts, subject to Cost Accounting Standards Board rules, regulations, and standards, with an agency or agencies of the United States, and when he proposes to change a practice disclosed for all such contracts. The amendment may increase the cost paid under one or more of the contracts, while decreasing the cost paid under one or more of the contracts. In such case, the Government will not pursuant to paragraph (a) (4) (B) require price adjustment for any increased costs paid by the United States so long as the costs decreased under one or more contracts are at least equal to the increased cost under the other affected contracts, provided that the contractor and all affected contracting officers agree on the

method by which the price adjustments are to be made for all affected contracts. In this situation, the contracting agencies would, of course, require an adjustment of the contract price or cost allowances, as appropriate, to the extent that the increases under certain contracts were not offset by the decreases under the remaining contracts.

(g) Where, through inadvertence, the contractor has failed to use applicable Cost Accounting Standards or to follow his disclosed practices and has not notified his contracting officer or officers of that failure, if the result of that failure is to increase costs paid under one or more contracts, while decreasing costs paid under one or more contracts, the contracting officer or officers of the agency or agencies concerned are urged. in the interest of administrative convenience, to negotiate the adjustment of the contract prices or cost allowances, as appropriate, of the affected contracts by requiring repayment of only the difference between the estimated price increases and the estimated price de-creases, together with any applicable

§ 331.80 Effective date.

The Disclosure Statement requirement at § 331.40 shall be included in all applicable solicitations issued on or after July 1, 1972, and all resulting contracts shall contain the contract clause at § 331.50. In any event, any other contract which is within the jurisdiction of the Cost Accounting Standards Board and which is awarded on or after October 1, 1972, shall contain that contract clause, Relevant Federal agencies shall notify the Cost Accounting Standards Board not later than June 1, 1972, of the action taken to implement this regulation.

PART 351-BASIC REQUIREMENTS

351.10 [Reserved]
351.20 Purpose,
361.30 Definitions,
351.40 Piling requirements,
351.50 Contract awards,
351.60 Forms,
351.70 Submission.

351.80 Incorporation of Disclosure Statement. 351.90 Adequacy of Disclosure Statement.

351.100 Effect of filing Disclosure Statement. 351.110 Early filing. 351.120 Amendment of Disclosure State-

ment.
351.130 Instructions and information.
351.140 Disclosure Statement.

APPENDIX

AUTHORITY: Sec. 103, 84 Stat. 796: (50 U.S.C. App. 2168).

§ 351.10 [Reserved]

§ 351.20 Purpose.

This regulation is promulgated pursuant to section 719 of the Defense Production Act of 1950, as amended by 84 Stat. 796 (Public Law 91-379), to provide the means by which affected persons can satisfy the requirements established by that law for disclosure of their cost ac-

counting practices and to promulgate the Disclosure Statement form. The regulation also sets forth the administrative procedures to be followed by the Cost Accounting Standards Board and relevant Federal agencies in connection with such disclosures.

§ 351.30 Definitions.

A "profit center" is the smallest organizationally independent segment of a company which has been charged by management with profit and loss responsibilities.

§ 351.40 Filing requirement.

(a) The requirements of this part are applicable to all defense contractors who enter into negotiated national defense contracts with the United States in excess of \$100,000 other than contracts where the price negotiated is based on (1) established catalog or market prices of commercial items sold in substantial quantities to the general public, or (2) prices set by law or regulation. A separate Disclosure Statement must be submitted covering the practices of each of the contractor's profit centers, divisions, or similar organizational units whose costs included in the total price of any contract exceed \$100,000, except where such costs are based on (i) established catalog or market prices of commercial items sold in substantial quantities to the general public or (ii) prices set by law or regulation. If the cost accounting practices under contracts are identical for more than one organizational unit, then only one Statement need be submitted for those units, but each such organizational unit must be identified. A Disclosure Statement will also be required for each Corporate or Group Office whose costs are allocated to one or more corporate segments performing contracts covered by Public Law 91-379.

(b) The requirements also apply to each subcontractor of whatever tier under a prime contract subject to these provisions provided the subcontract would, if it were a prime contract with the United States, be covered by the above statement of applicability for negotiated national defense contracts.

(c) The practices disclosed pursuant to these requirements shall be followed on all contracts and subcontracts subject to Public Law 91-379 being performed by the contractor or subcontractor.

(d) The Cost Accounting Standards Board will not make Disclosure Statements public in any case when the contractor files its statement specifically conditioned on the Government's agreement to treat the Disclosure Statement as confidential information.

(e) Every contractor and subcontractor covered by this subchapter must submit a Disclosure Statement as a condition of contracting. In order to minimize the administrative burdens upon contracting agencies, the initial requirement for filing is a phased requirement. Each company which together with its subsidiaries received net awards of negotiated national defense prime contracts during Federal fiscal years 1971 (July 1, 1970)

through June 30, 1971) totaling more than \$30 million must submit completed Disclosure Statements prior to receipt of any contract containing the clause set forth in § 331.50 of this chapter. From time to time, the Board will announce the dates of applicability to other contractors and subcontractors. Because a failure to submit an adequate, timely Disclosure Statement may result in the denial of a contract or subcontract award, relevant Federal agencies should act promptly to assure that affected companies submit Disclosure Statements as prescribed herein at the earliest possible time.

§ 351.50 Contract awards.

(a) After October 1, 1972, no relevant Federal agency shall award any national defense contract subject to this regulation to any contractor who during Federal fiscal year 1971 received net awards of negotiated contracts totaling \$30 million or more unless such contractor has submitted a completed Disclosure Statement as required herein. As set forth in the contract clause at \$331.50 of this chapter, the contracting officer may, in certain circumstances, authorized postaward submission, notwithstanding the requirement of this section.

(b) No subcontract shall be awarded to any subcontractor required to file a Disclosure Statement pursuant to the filing requirement of § 351.40 unless the subcontractor has satisfied that requirement by submitting such Statement to the Government in the manner prescribed by agency regulations and agreed to with the prime contractor under whom the subcontract is to be awarded.

§ 351.60 Forms.

Disclosure Statements shall contain complete and accurate responses to the items set forth in § 351.140. For the convenience of persons required to submit Disclosure Statements, the Cost Accounting Standards Board has devised a form, Form No. CASB-DS-1, which should be used. Copies of the form may be requested by relevant Federal agencies for distribution to affected contractors and subcontractors from the Administrative Officer of the Cost Accounting Standards Board, 441 G Street NW., Washington, DC 20548. If for any reason, copies of the form cannot be obtained, the required information shall be supplied in a form substantially in accord with the arrangement set forth in § 351.140.

§ 351.70 Submission.

Each national defense contractor shall submit a copy of each Disclosure Statement, and any amendments thereto in accordance with the method prescribed by each Federal agency for which the contractor is performing or proposes to perform contracts subject to the rules, regulations, and standards of the Cost Accounting Standards Board. Concurrently, a copy shall also be submitted to the Cost Accounting Standards Board, 441 G Street NW., Washington, DC 20548.

§ 351.80 Incorporation of Disclosure Statement.

Every solicitation subject to the standards, rules, and regulations of the Cost Accounting Standards Board shall contain a provision allowing the contractor to identify and incorporate by reference, a Disclosure Statement already on file which will be applicable to that solicitation. Such identification and incorporation shall satisfy the requirement for disclosure as a condition of contracting. Agencies may, nonetheless, require submission of additional copies of such Disclosure Statement to the extent deemed necessary.

§ 351.90 Adequacy of Disclosure Statement.

Federal agencies shall prescribe regulations by which each will determine that a Disclosure Statement has adequately disclosed the practices required to be disclosed by Cost Accounting Standards Board's standards, rules, and regulations. Agencies are urged to coordinate development of such regulations. The Disclosure Statement submitted to the Cost Accounting Standards Board in accordwith § 351.70, is for evaluation and development of Board programs only. Consequently, such submission to the Board does not satisfy the requirement for disclosure as a condition of contracting, nor does any action by the Board with respect to such statement constitute a finding of any kind regarding the adequacy of the statements as submitted.

§ 351.100 Effect of filing Disclosure Statement.

Unless the Federal agency involved provides otherwise either by regulation or by specific notice to the contractor involved, a Disclosure Statement submitted to the agency or incorporated by reference shall be presumed adequate to meet the requirement that disclosure be made as a condition of contracting. The fact that the condition of contracting has been met shall serve only to establish what the contractor's cost accounting practices are or are proposed to be. In the absence of specific regulation or agreement, a disclosed practice shall not. by virtue of such disclosure, be deemed to have been approved by the agency involved as a proper, approved or agreed practice for pricing proposals or accumulating and reporting contract performance cost data.

§ 351.110 Early filing.

In order to permit orderly processing of Disclosure Statements, all prospective contractors and subcontractors are urged to submit Disclosure Statements as soon as possible. Notwithstanding such early filings, contractors will be bound to adhere to disclosed practices only with respect to contracts under which the contractor would otherwise be required to adhere to his disclosed practices pursuant to § 351.40.

§ 351.120 Amendment of Disclosure Statement.

(a) Disclosure Statement amendments may be submitted at any time. Contractors are reminded, however, that any amendments to Disclosure Statements must be made applicable prospectively to all contracts and subcontracts subject to Cost Accounting Standards. For this, reason, all relevant Federal agencies are strongly urged to establish interagency procedures for promptly coordinating agency activities stemming from changes in disclosed practices.

(b) Disclosure Statements must be amended for practices that must be changed to comply with Cost Accounting Standards which become applicable subsequent to the initial filing of the Disclosure Statements. Equitable adjustment of contract price or cost allowance will be made as set out in paragraph (a) (4) (A) of § 331,50 of this chapter.

(c) Disclosure Statements must also be amended for changes in practices voluntarily agreed to by the parties. In this event, the contractor and the contracting officer(s) may enter into an agreement as contemplated by paragraph (a) (4) (B) of \$331.50 of this chapter. Such agreement may specify the impact that a Government or contractor proposed change in practice shall be deemed to have on costs paid under one or more existing contract(s) for which the contracting officer(s) is responsible. Such agreement may be made final and binding, notwithstanding the fact that experience may subsequently establish that actual impact of the change differed from that agreed to.

(d) Amendments shall be submitted to the same offices, including the Cost Accounting Standards Board, to which submission would have to be made were an original Disclosure Statement being filed. Revised data for Items 1.4.0 through 1.7.0, 8.1.0 and 8.2.0 must be submitted annually at the beginning of the contractor's fiscal year. If fewer than five of the other items in the Disclosure Statement on file are changed, a letter notice precisely identifying the Disclosure Statement, the specific items being amended, and the nature of the changes will suffice. If five or more items are changed, the entire Disclosure Statement shall be resubmitted. Resubmitted Disclosure Statements must be accompanied by a notation specifying the items which have been changed and the nature of the change.

§ 351.130 Instructions and information.

The following instructions and information shall be used by persons completing Disclosure Statements.

INSTRUCTIONS AND INFORMATION

(a) This Disclosure Statement has been designed to meet the requirements of Public Law 91-379, and persons completing it are to describe their contract cost accounting practices. For timing of requirement to file a Disclosure Statement, see § 351.40. A statement must be submitted by all defense contractors who enter into negotiated national defense contracts with the United States in excess of \$100.000 other than contracts where the price negotiated is based on (i) established catalog or market prices of commercial items sold in substantial quantities to the general public, or (2) prices set by law or regulation. A separate Disclosure State-

ment must be submitted covering the practices of each of the contractor's profit centers, divisons, or similar organizational units, whose costs included in the total price of any contract exceed \$100,000, except where such costs are based on (1) established catalog or market prices of commercial items sold in substantial quantities to the general public, or (2) prices set by law or regulation. If the cost accounting practices under contracts are identical for more than one organizational unit, then only one statement need be submitted for those units, but each such organizational unit must be identified. A Disclosure Statement will also be required for each corporate or group office when costs are allocated to one or more corporate segments performing contracts covered by Public Law 91-379, but only Part VIII of the statement need be completed.

(b) The statement must be signed by an authorized signatory of the reporting unit.

(c) The disclosure of a cost accounting practice by a contractor does not determine the allowability of particular items of cost. Irrespective of the practices disclosed by a contractor, the question of whether or not, or the extent to which, a specific element of cost is allowed under a contract remains for consideration in each specific instance. Contractors are cautioned that the determination of the allowability of cost items will remain a responsibility of the contracting officers pursuant to the provisions of the applicable procurement regulations.

(d) Unless the Federal agency involved provides otherwise, either by regulation or by specific notice to the contractor involved, a Disclosure Statement submitted to the agency or incorporated by reference should be presumed adequate to meet the requirement that disclosure be made as a condition of contracting. In the absence of specific regulations or agreement, a disclosure practice should not, by virtue of such disclosure, be deemed to have been approved by the agency involved as a proper, approved, or agreed practice for pricing proposals or accumulating and reporting contract performance cost data.

(e) The individual Disclosure Statement may be used in audits of contracts or in negotiation of prices leading to contracts. The authority of the audit agencies and the contracting officers is in no way abrogated by the material presented by the contractor in his Disclosure Statement. Contractors are cautioned that their disclosures in response to the items herein must be complete and accurate; the practices disclosed may have a significant impact on ways in which contractors will be required to comply with Cost Accounting Standards.

(f) This Disclosure Statement should be answered by checking the appropriate box or inserting the applicable Code letter which most nearly describes the reporting unit's cost accounting practices. Part I of the statement asks for general information concerning the reporting unit, Part VIII covers Corporate and Group (Intermediate) offices whose costs are allocated to one or more segments performing contracts covered by Public Law 91-379. Part VIII should be completed by each such office, and care should be taken to insure proper identification of such offices on the cover of the Disclosure Statement. In short, while a Corporation or group office may have more than one reporting unit submitting Disclosure Statements, only one statement need be submitted to cover the Corporate or Group Office operations.

(g) A number of questions in this statement may need narrative answers requiring more space than is provided. In such instances, the reporting unit should use the continuation sheets provided or a facsimile thereof. The number of the question involved should be

indicated and the same coding required to answer the questions in the statement should be used in presenting the answer in the continuation sheet. The reporting unit should indicate on the last continuation sheet used, the number of such sheets that were used.

(h) Contractors to whom Public Law 91-379 is applicable are required to follow consistently their disclosed practices in pricing contract proposals and in accumulating and reporting contract performance cost data. If deviation from disclosed practices results in increased costs being paid by the Government, contractors will be required to repay to the Government the amount of the increased costs together with interest charges.

(i) Public Law 91-379 contains an access to records clause, section 719(j) of the Law states:

"For the purpose of determining whether a defense contractor or subcontractor has compiled with duly promulgated cost accounting standards and has followed consistently his disclosed cost accounting practices, any authorized representative of the head of the agency concerned, of the Board, or of the Comptroller General of the United States shall have the right to examine and make copies of any documents, papers, or records of such contractor or subcontractor relating to compliance with such cost accounting standards and principles."

§ 351.140 Disclosure Statement.

The data which are required to be disclosed are set forth in detail in the Disclosure Statement form CASB-DS-1 which will be devised by the Cost Accounting Standards Board and will be arranged substantially as set forth below.

2. Changes for consistency of style in definitions in Parts 400, 401, 402, 403, and 404. In the indicated sections the definition of "actual costs," "indirect cost pools," "tangible capital assets," and "home office" would be changed to read as follows:

PART 400-DEFINITIONS

Section 400.1 is amended to read as follows:

§ 400.1 Definitions.

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(a) * * *

Actual cost.—Amount determined on the basis of cost incurred as distinguished from forecasted cost, Includes standard cost properly adjusted for applicable variance.

Indirect cost pool.—Grouping of incurred costs identified with two or more cost objectives but not identified specifically with any final cost objective.

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Tangible capital asset.—An asset that has physical substance, more than minimal value, and is expected to be held by an enterprise for continued use or possession beyond the current accounting period for the services it yields.

PART 401—COST ACCOUNTING STAND-ARD—CONSISTENCY IN ESTIMATING, ACCUMULATING, AND REPORTING

Section 401.30 is amended to read as follows:

§ 401.30 Definitions.

(a) · · ·

(2) Actual cost.—Amount determined on the basis of cost incurred as distinguished from forecasted cost. Includes standard cost properly adjusted for applicable variance.

(4) Indirect cost pool.—Grouping of incurred costs identified with two or more cost objectives but not identified specifically with any final cost objective.

PART 402—COST ACCOUNTING STAND-ARD—CONSISTENCY IN ALLOCATING COSTS INCURRED FOR THE SAME PURPOSE

Section 402.30 is amended to read as follows:

§ 402.30 Definitions.

(8) . . .

(2) Cost objective.—A function, organizational subdivision contract or other work unit for which cost data are desired and for which provision is made to accumulate and measure the cost of processes, products, jobs, capitalized projects, etc.

(6) Indirect cost pool.—Grouping of incurred costs identified with two or more cost objectives but not identified specifically with any final cost objective.

PART 403—ALLOCATION OF HOME OFFICE EXPENSES TO SEGMENTS

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Section 403.30 is amended to read as follows:

§ 403.30 Definitions.

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(a) * * *

(2) Home office.—An office responsible for directing or managing two or more, but not necessarily all, segments of an organization. It typically establishes policy for, and provides guidance to the segments in their operations. It usually performs management, supervisory, or administrative functions, and may also perform service functions in support of the operations of the various segments. An organization which has intermediate levels, such as groups, may have several home offices which report to a common home office. An intermediate organization may be both a segment and a home office.

(5) Tangible capital asset.—An asset that has physical substance, more than minimal value, and is expected to be held by an enterprise for continued use or possession beyond the current accounting period for the services it yields.

§ 403.50 [Amended]

In line six of § 403.50(c)(2), change "§ 331.5" to "§ 331.50".

§ 403.70 [Amended]

In § 403.70, in lines three and eight change "§ 351.4" to "§ 351.40"; and in

line thirteen change "§ 351.5" to Phase IV price regulations. Specifically, "§ 351.50". the Council has been asked to consider

PART 404—CAPITALIZATION OF TANGIBLE ASSETS

Section 404.30 is amended to read as follows:

§ 404.30 Definitions.

(a) * * *

(4) Tangible capital asset.—An asset that has physical substance, more than minimal value, and is expected to be held by an enterprise for continued use or possession beyond the current accounting period for the services it yields.

ARTHUR SCHOENHAUT, Executive Secretary.

IFR Doc.73-18685 Filed 9-4-73:8:45 am1

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ENERGY POLICY OFFICE

[32A CFR Chapter XIII] PROPANE

Mandatory Allocation Program; Public Hearing

On June 11–14, 1973, hearings were held concerning the operation of the voluntary allocation program for petroleum products and the need for a mandatory allocation program. These hearings indicated that shortages of certain products were being experienced in certain parts of the country. In the Energy Policy Office statement of August 9, 1973, it was indicated that a particularly difficult problem exists with propane.

Propane represents a very small fraction of our national fuel supplies. However, it is critical to certain needs such as drying of crops and heating of rural residences and trailers. Studies just concluded by the Federal Government have determined that the propane situation has continued to deteriorate. Diversion of propane from traditional agricultural and residential users to industrial and utility users will result in an absolute shortage of propane for these traditional high priority users.

Since propane supplies have been diverted from traditional high priority customers such that they do not have sufficient supplies to meet their demands this winter, a Mandatory Allocation System for propane is being established pursuant to section 203(a) (3) of the Economic Stabilization Act of 1970, as amended. Specifically this regulation aims to redirect available supplies of propane back to high priority users, encourage refiners to maximize available supplies of propane, and restrict end use consumption of propane by nonpriority users.

The Energy Policy Office also recognizes that higher prices may be necessary in order for an allocation program to be most effective, to encourage conservation, and to induce increased production and importation of propane. Accordingly, the Energy Policy Office has requested that the Cost of Living Council examine the relationship between the proposed allocation system and the

the Council has been asked to consider the possible amendment of the regulations to (1) provide that (a) sales of propane redirected from one purchaser to another purchaser may be made at the current sales contract price to the first purchaser, and (b) the second purchaser may roll this purchase price into his selling price for all propane sales, and (2) allow (a) sales of propane embargoed from shipment from storage to be made at a price not to exceed the purchase cost plus applicable transportation, storage, handling, and sales expense, and (b) the purchaser of such propane to roll this purchased price into his selling price for all propane sales.

It is highly desirable that refiners maximize the production and sale of propane. This can be accomplished by substituting other gaseous fuels for propane used as refinery fuel. However, as those alternate fuels have higher-valued uses, refiners cannot be expected to make that substitution without allowance for the higher costs incurred. The Energy Policy Office has requested the Cost of Living Council to consider additional actions to provide necessary incentives.

As required by section 203(a) (3) of the Economic Stabilization Act, a public hearing will be held on the proposed regulation. If the regulations are to become effective in time to significantly redirect to priority customers the supply of propane available this winter, it is necessary to shorten the notice period for the public hearing and comment. Therefore, the public hearing will be held in Washington, D.C. beginning at 9 a.m. (E.S.T.) Friday, September 7, 1973, in the General Services Administration auditorium, 18th and F Streets NW., Washington, D.C. 20240, for the purpose of receiving comments and testimony on all phases of the Proposed Program to Establish a Mandatory Allocation Program for Propane.

In addition, interested persons are invited to submit twenty (20) copies of any written comments on the proposal to the Office of Oil and Gas, Department of the Interior, Washington, D.C. 20240, Attention: L. A. D'Andrea, Comments received no later than September 7th will be considered.

JOHN A. LOVE,
Director,
Energy Policy Office.

AUGUST 31, 1973.

A new EPO REG. 3 is added to 32A CFR Chapter XIII to read as follows:

EPO REG. 3—MANDATORY ALLOCATION PROGRAM FOR PROPANE

1 Purpose and intent.

2 Definitions.

3 Priority allocations.
4 Constraints on shipments from propane storage.

5 Pricing provisions.

6 Force majeure.

7 Exceptions.

8 Access to records.

AUTH RITY: Sec. 203(a)(3), Economic Stabilization Act as amended by PL 93-23; 12 USC 1904 (Note): EO 11695, 38 FR 1473; COLC Order 39, 38 FR 22910.

Sec. 1. Purpose and intent.

The purpose of this regulation is to assure that available supplies of propane are directed to those customers to whom propane is essential for their physical well-being or for the production of agricultural commodities. These regulations shall be in effect through April 30, 1974. Through this period supplies of propane will probably be insufficient to meet all market requirements. Hence, nonpriority users can expect to receive less than their full requirements and should plan to operate accordingly.

Sec. 2. Definitions.

"Priority customers" are those end use customers who use propane for (a) agricultural production (such as tractor fuel, poultry and pig brooding and crop drying), (b) food processing, (c) residential cooking and heating, (d) mass transit vehicles, and (e) buildings housing medical and nursing patients.

"Propane" is, for purposes of this regulation, a hydrocarbon whose chemical composition is predominantly C.H., Propane-Butane mixes used to supply custimers are included in this definition,

An "end use customer" is any final consumer of propane whether for fuel, raw

material, or other use.

"Reseller" means a firm or that part of such a firm which carries on the trade or business of purchasing propane, and reselling it without substantially changing its form.

"Supplier" is any firm who produces propane in a natural gasoline plant, refinery, or elsewhere, or who imports propane for sale, transfer, or exchange to another supplier, reseller, or an end use customer. Suppliers shall include those producers of natural gas who have their gas processed for their account by others.

Sec. 3. Allocation system.

(a) Priority Allocation.—(1) All propane suppliers and resellers must first provide for the entire requirements of their priority customers for propane before making sales to nonpriority customers. Suppliers to resellers shall also provide the supplies that those resellers need to meet the requirements of their priority customers. In those instances where a reseller is supplied by more than one supplier, his needs for his priority customers shall be supplied to him in the same proportion as those suppliers sold to him in the year ended April 30, 1973.

(2) Resellers shall certify to their suppliers (in the proportions referenced in the previous sentence) their requirements of the resellers' priority customers. Such certifications shall be in the hands of their suppliers prior to the end of each month, and shall project their priority customers needs from that date through April 30, 1974. Resellers shall certify to their suppliers by September 30, 1973 (in the proportions referenced above) the

amount of propane sold to nonpriority customers during the period September 1, 1972, through April 30, 1973. These reports shall be certified for correctness by an officer of the reporting company. The provisions of 18 U.S.C. 1001 shall apply to all submissions made.

(3) All propane received by resellers under priority certification shall be sold

only to priority customers.

(4) Priority users or resellers to priority users of propane who are unable to find a supplier may be assigned to a supplier by the Office of Oil and Gas. Sales made at the request of the Federal Government in the base period will not be included in establishing proportional base period sales.

(5) Suppliers who do not have sufficient propane to meet needs of their priority customers and the needs of their reseller's priority customers may be assigned to another supplier by the Office of Oil and Gas to meet the balance of the priority needs of the supplier being

assigned.

(b) Nonpriority Allocation.—(1) Suppliers will determine their total supplies of propane available for sale or internal use as a raw material during the period September 1, 1973, through April 30, 1974. From this amount they will subtract the requirements for their priority customers and the amounts certified to them by resellers as being required for reseller priority customers; leaving the supplier with a net available supply.

(2) The supplier will calculate an allocation fraction as follows: Divide the net available supply by the sum of the suppliers sales to nonpriority customers, internal raw material uses, and nonpriority sales to resellers as certified above, all during the period September 1, 1972, through April 30, 1973. This allocation fraction will be reported monthly by all suppliers to the Office of Oil and Gas.

(3) The amount which must be offered for sale or which may be used as a raw material by a supplier during the period September 1, 1973, through April 30, 1974, shall be equal to the sale to that particular customer or reseller or internal consumption during the base period September 1, 1972, through April 30, 1973, multiplied by the allocation fraction. In no event, however, shall a supplier be required to use an allocation fraction greater than 1.0. In the event a supplier's net available propane is of sufficient magnitude that its allocation fraction exceeds 1.0, the supplier may make allocations based on an allocation fraction of 1.0 and sell or use any surplus propane at its own discre-

(4) The intent is that natural gasoline plants, refiners and others who produce or supply propane will sell to those suppliers, resellers, or end use customers the same proportion of their total propane available for sale, transfer or use after deduction of sales for priority customers as they sold in the year ending April 30, 1973. Sales made to customers of record during the base period to com-

ply with this section are "redirected sales."

Sec. 4. Constraints on shipments from propane storage.

(a) All operators of propane storage facilities who store propane in excess of ½ million gallons for the account of any interest other than suppliers shall report to the Office of Oil and Gas within 10 days of the effective date of this regulation the total volume and locations of propane held by each such account. This same information shall be reported as of the end of each month within 5 days of the close of that month.

(b) Operators of such storage facilities shall not release for shipment from September 1, 1973, through April 30, 1974, to nonpriority consumers any quantity of propane which exceeds shipments from such storage to those respective consumers during the period September 1, 1972, through April 30, 1973. Amounts of such shipments in the base period shall be reported to the Office of Oil and Gas no later than September 15, 1973, by the operators of the propane storage

facilities.

(c) No restrictions are imposed, however, on the release of propane for shipment to priority customers or to resellers for sale to priority customers or to suppliers who sell to priority customers, or to hardship cases certified by the Office of Oil and Gas. In the event propane embargoed for release from storage is purchased by suppliers, the volume purchased must be included in the supplier's total available propane. In the event propane embargoed for release from storage is purchased by priority customers or by resellers for sale to priority customers, the priority customer or reseller shall immediately notify his supplier of the volume purchased. The supplier will reduce the volume of propane budgeted for delivery to that priority customer or reseller by the volume of the reported purchase. The intent of this provision is to redirect propane supplies to conventional market channels. Owners of propane embargoed from shipment from storage are urged to sell such embargoed product to historic propane marketers.

Sec. 5. Pricing provision.

No seller of propane may charge a price in excess of the price authorized under Subpart L of Part 150, Title 6, Code of Federal Regulations.

Sec. 6. Force majeure.

No person shall be held liable by any other person for damages or penalties for any act or failure to act resulting directly or indirectly from compliance with this regulation or any other rule, regulation, or order issued pursuant to the mandatory allocation program for propane notwithstanding that this regulation or any other such rule, regulation, or order shall thereafter be declared by judicial or other competent authority to be invalid.

Sec. 7. Exceptions.

(a) In the event of exceptional hardship as a direct result of this program, persons may petition the Office of Oil and Gas for relief. In the event the Office of Oil and Gas, after thorough investigation, determines that relief is warranted, it may certify hardship and allow the petitioner the right to purchase and/or ship certain volumes of propane embargoed for release from storage.

(b) As stated in section 1, non-priority users can expect to receive less than their full requirements of propane during the period of this allocation program. This does not constitute exceptional hardship.

Sec. 8. Access to records.

At its discretion, the Office of Oil and Gas may request data, in a form that it may prescribe, from suppliers, resellers, users, and persons who store or transport propane. The Office of Oil and Gas may also conduct onsite investigations as it deems necessary.

[FR Doc.73-18834 Filed 8-31-73;12:50 pm]

FEDERAL MARITIME COMMISSION [46 CFR Part 542]

[General Order __; Docket No. 73-48]

REMOVAL OF OIL AND HAZARDOUS SUBSTANCES

Financial Responsibility; Extension of Time for Comments

The Commission published notice of proposed rulemaking in this proceeding August 14, 1973 (38 FR 21941), inviting comments of interested parties on or before September 4, 1973.

The proposed rules would establish regulations for the implementation of hazardous substance financial responsibility requirements imposed by the Federal Water Pollution Control Act Amendments of 1972.

Counsel for Shipowners Protection and Indemnity Associations have requested a 60 day enlargement of time to file comments. As grounds therefor counsel cites difficulty of obtaining instructions from clients located in diverse overseas localities and suggests the urgency for the early issuance of the rules is lessened by the fact that the Environmental Protection Agency's (EPA) list of hazardous substances might not be ready until after January 1, 1974.

The Commission's proposed rules are closely patterned after existing rules relating to oil pollution financial responsibility requirements. Detailed or pro-longed analysis would therefore appear unnecessary. Additionally, the form or content of any rules adopted here is not dependent on whatever form EPA's list of hazardous substances may take and comment thereon need not await issuance of the list. In any event we have no concrete assurances when the EPA will In fact disclose its list of hazardous substances. It is also noted that under the terms of the Federal Water Pollution Control Act amendments of 1972, the financial responsibility provisions, as they relate to hazardous substances, become effective October 18, 1973.

Under the above circumstances the request for 60 day enlargement appears excessive. However, a limited extension of 15 days does seem warranted.

Accordingly, time for filing comments on the notice of proposed rulemaking in this proceeding is hereby enlarged to and including September 19, 1973.

By the Commission.

JOSEPH C. POLKING, Assistant Secretary.

[FR Doc.73-18738 Filed 9-4-73;8:45 am]

INTERSTATE COMMERCE COMMISSION

[49 CFR Part 1131]

[Ex Parte No. 67 (Sub-No. 2)]

STATE REGISTRATION OF EMERGENCY TEMPORARY AND TEMPORARY AU-THORITY

Notice of Proposed Rulemaking

Section 210a(a) of the Interstate Commerce Act, as amended (49 U.S.C. 310a (a)), enables the provision of service in interstate or foreign commerce for which there is an immediate and urgent need to a point or points or within a territory having no carrier service capable of meeting such need when this Commission, in its discretion and without hearings or other proceedings, grants temporary authority for such service by a common or contract carrier by motor vehicle. Regulations governing the issuance of temporary authorities can be found at 49 CFR Part 1131. It has come to our attention that certain State requirements concerning the registration of temporary authorities issued by us are generating delays in the provision of motor carrier services for which this Commission has found an immediate and urgent need. It is believed that such delay-causing State regulations are a burden upon interstate commerce and are prohibiting the shipping and travelling public from receiving service they immediately and urgently require. Such State regulations do not appear to be in the public interest and cannot be allowed to operate to the detriment of the public and in conflict with the principles of this Commission's economic regulation of the motor carrier industry.

The second proviso of \$ 1023.11 provides that a motor carrier is not to be required to register with any State emergency or temporary authority which is not to remain in effect in excess of 30 days provided: (a) the carrier has previously registered its other authority with the State and identified its vehicles as otherwise required by Part 1023, and (b) furnished to the State a telegram or other written communication describing the emergency or temporary operating authority and stating that the operations will be conducted in full conformity with the requirements for uniform registration. This regulation has been in effect for 18 months and the existence of certain problems has become evident. First, carriers are not required to register emergency temporary authority which is not to remain in effect for over 30 days if they meet the conditions in (a) and (b)

above. Because emergency temporary authorities are often extended to 60 and 90 days, the 30-day limitation in \$1023.11 tends to nullify the intent of the regulation and delay the rendition of urgently needed motor carrier service.

Condition (a) above permits carriers to take advantage of this section if they have previously registered their other interstate authority with the State. A carrier which receives emergency temporary authority from this Commission and has no previously registered interstate authority (because it has no other authority from this Commission) is being required to file with the States copies of its emergency temporary authority in compliance with 49 CFR 1023.13. This process usually takes between 10 and 14 days. The carrier cannot operate during this period although it has shown an urgent need for its service. Its 30-day emergency authority is reduced by 10 to 14 days in such instances

Condition (b) above requires that a telegram or letter be furnished to States describing the authority. Certain States have apparently refused to accept telegrams for the carriers and insist that this Commission must originate the communication. This also reduces the time period of a temporary authority and prohibits a carrier from providing a service urgently required.

Based on the foregoing, it is proposed that 49 CFR Part 1131 be amended by the addition of the following new section, presently untitled:

§ 1131.____.

Notwithstanding the provisions of § 1023.11 of this subchapter, a motor carrier shall not be required to file with a State Commission an emergency or temporary operating authority having a duration of 90 consecutive days or less if such carrier has: (a) registered its other authority granted by the Interstate Commerce Commission authorizing opera-tions in or through the involved State (a carrier possessing no other such authority may qualify for this exception upon compliance only with condition (b) below) and identified its vehicles or driveaway operation under the provisions of those standards set forth at §§ 1023.31-1023.42 of this subchapter, both inclusive; and (b) furnished to the State Commission a telegram or other written communication from the motor carrier describing such emergency or temporary operating authority and stating that operation thereunder shall be in full accord with the requirements of those standards set forth at § 1023.1 et seq., of this subchapter.

The statutory authority for this action is to be found in part II of the Interstate Commerce Act, including particularly sections 210a(a), 204(a) (1) and (6), and 202(b) thereof [49 U.S.C. 310a(a), 304 (a) (1) and (6), and 302(b)].

It does not appear that the action proposed herein will have a significant effect upon the quality of our human environment within the meaning of the National Environmental Policy Act of 1969.

PROCEDURAL MATTERS

Oral hearings do not appear to be necessary at this time and none is contemplated. Any person wishing to present views and evidence either in support of, or in opposition to, the action proposed in this order may do so by the submission of written data, views, or arguments.

of written data, views, or arguments.

It is ordered, That, based on the foregoing explanation, a proceeding be, and it is hereby, instituted under part II of the Interstate Commerce Act, and particularly sections 202(b), 204(a) (1) and (6), and 210a(a) thereof, and 5 U.S.C. 553 and 559 (the Administrative Procedure Act), for the purpose of determining whether the adoption of the above-described procedures is reasonable and necessary in the public interest, and

for the purpose of taking such other and further action as the facts and circumstances may justify or require.

It is further ordered, That no hearings be scheduled for the receipt of oral testimony unless a need therefor should later appear, but that any person interested in making representations in favor of, or against the proposed regulations is hereby invited to do so by the submission of written data, views, or arguments. An original and 15 copies of such data, views, or arguments shall be filed with the Commission on or before October 1, 1973. All such statements will be considered as evidence and as a part of the record in the proceeding.

And it is further ordered, That a copy of this Notice and Order be served on the National Association of Regulatory Utility Commissioners, that written materials or suggestions submitted will be available for public inspection at the Offices of the Interstate Commerce Commission, 12th and Constitution, Washington, D.C., during regular business hours; and that notice to the general public of the matter here under consideration will be given by depositing a copy of this notice in the Office of the Secretary of the Commission for public inspection and by filing a copy thereof with the Director, Office of the Federal Register.

By the Commission.

[SEAL] JOSEPH M. HARRINGTON,
Acting Secretary.

[FR Doc.73-18758 Filed 9-4-73;8:45 am]

Notices

This section of the FEDERAL REGISTER contains documents other than rules or proposed rules that are applicable to the public. Notices of hearings and investigations, committee meetings, agency decisions and rulings, delegations of authority, filing of petitions and applications and agency statements of organization and functions are examples of documents appearing in this section.

DEPARTMENT OF STATE

[Public Notice CM-61]

SHIPPING COCRDINATING COMMITTEE SUBCOMMITTEE ON CODE OF CON-DUCT FOR LINER CONFERENCES

Notice of Meeting

A meeting of the Subcommittee on the Code of Conduct for Liner Conferences will be held at 1:30 p.m. on Thursday, September 20, in Room 1105, Department of State, Washington, D.C., to discuss United States positions on the draft Code of Conduct for Liner Conferences in regard to the October meeting of the Special Group on UNCTAD of the OECD Maritime Transport Committee and regarding the UN Conference of Plenipotentiaries on the Code, scheduled to convene November 12, 1973.

The meeting will be closed to the public, under a determination to do so, made under the provisions of section 10(d) of Public Law 92-463. (This meeting will follow the public meeting scheduled for 10 a.m. that morning, which had been announced in the FEDERAL REGISTER on August 13, 1973.)

For information regarding the meeting, contact Mr. Richard K. Bank, Secretary, Shipping Coordinating Committee, Department of State, Washington, D.C. 20520, area code 202-632-0704.

Dated August 23, 1973.

RICHARD K. BANK, Executive Secretary, Shipping Coordinating Committee. [FR Doc.73-18731 Filed 9-4-73;8:45 am]

[Public Notice CM-62]

STUDY GROUP 2 OF THE U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL RADIO CONSULTATIVE COMMITTEE (CCIR)

Notice of Meeting

The Department of State announces that Study Group 2 of the U.S. National Committee for the International Radio Consultative Committee (CCIR) will meet on September 27, 1973, at 9:30 a.m., in Room 521-J, Federal Office Building, 600 Independence Avenue SW., Washington, D.C.

Study Group 2 deals with matters relating to the communications for scientific satellites, space probes, spacecraft, exploration satellites (e.g., meteorological and geodetic), and to interference problems concerning the radioastronomy and radar astronomy services. The principle item on the agenda will be the approval of Study Group 2 papers prepared for the final meeting of the Study Groups in 1974. Subsequent to their approval by Study Group 2 the papers will be circulated to the U.S. National Committee prior to sending them to Geneva.

Members of the general public who desire to attend the meeting on September 27 will be admitted up to the limits of the capacity of the meeting room.

Dated August 27, 1973.

GORDON L. HUFFCUTT. Chairman. U.S. CCIR National Committee.

[FR Doc.73-18732 Filed 9-4-73;8:45 am]

[Public Notice CM-80]

STUDY GROUPS 10 AND 11 OF THE U.S. NATIONAL COMMITTEE FOR THE IN-TERNATIONAL RADIO CONSULTATIVE COMMITTEE (CCIR)

Notice of Meeting

The Department of State announces that Study Groups 10 and 11 of the U.S. National Committee for the International Radio Consultative Committee (CCIR) will meet jointly on September 19, 1973, under the chairmanship of Mr. A. Prose Walker of the Federal Communications Commission (FCC). The meeting will convene at 10:00 a.m., in Room A-110, FCC Annex (Howich Building), 1229 20th Street NW., Washington, D.C

Study Group 10 deals with questions relating to sound broadcasting: Study Group 11 deals with questions relating to television broadcasting. The agenda for the meeting will include consideration of the draft documents being developed as proposed contributions by the U.S. to the international meetings of the Study Groups in 1974.

Members of the general public who desire to attend the meeting on September 19 will be admitted up to the limits of the capacity of the meeting room.

Dated August 29,1973.

GORDON L. HUFFCUTT, Chairman, U.S. CCIR National Committee. [FR Doc.73-18730 Filed 9-4-73;8:45 am]

DEPARTMENT OF THE TREASURY Office of the Secretary

EXPANDED METAL, OF BASE METAL, FROM JAPAN

Antidumping; Determination of Sales at Less Than Fair Value

August 30, 1973.

Information was received on January 12, 1973, that expanded metal, of base metal, from Japan was being sold at less than fair value within the meaning of the Antidumping Act, 1921, as amended (19 U.S.C. 160 et seq.) (referred to in this notice as "the Act").

A "Withholding of Appraisement Notice" is being published concurrently with

this notice.

I hereby determine that, for the reasons stated below, expanded metal, of base metal, from Japan is being, or is likely to be, sold at less than fair value within the meaning of section 201(a) of the Act (19 U.S.C. 160(a)).

Statement of reasons on which this determination is based,-The information currently before the U.S. Customs Service indicates that the proper basis of comparison for fair value purposes is between purchase price and adjusted home market price.

Purchase price was calculated on the basis of the f.o.b. Japanese port price, with deductions for included transportation charges and, where appropriate, inspection fees and insurance costs.

Adjusted home market price was calculated on the basis of a weighted average of the delivered prices, with deductions for transportation costs. An adjustment was made for differences in credit charges and packing costs,

The comparisons revealed that purchase price was lower than the adjusted

home market price.

The United States Tariff Commission is being advised of this determination.

This determination is published pursuant to section 201(c) of the Act (19 U.S.C. 160(c)).

[SEAL] JAMES B. CLAWSON. Acting Assistant Secretary of the Treasury.

[FR Doc.73-18862 Filed 9-4-73;8:45 am]

EXPANDED METAL, OF BASE METAL, FROM JAPAN

Antidumping; Withholding of Appraisement Notice

August 30, 1973.

Information was received on January 12, 1973, that expanded metal, of base metal, from Japan was being sold at less than fair value within the meaning of the Antidumping Act, 1921, as amended (19 U.S.C. 160 et seq.) (referred to in this notice as "the Act"). The information was the subject of an "Antidumping Proceeding Notice" which was published in the FEDERAL REGISTER of February 26, 1973, on page 5195. The "Antidumping Proceeding Notice" in-dicated that there was evidence on record concerning injury or likelihood of

injury or prevention of establishment of an industry in the United States.

Pursuant to section 201(b) of the Act (19 U.S.C. 160(b)), notice is hereby given that there are reasonable grounds to believe or suspect that the purchase price (section 203 of the Act; 19 U.S.C. 162) of expanded metal, of base metal, from Japan is less, or is likely to be less, than the foreign market value (section 205 of the Act; 19 U.S.C. 164).

Customs officers are being directed to withhold appraisement of expanded metal, of base metal, from Japan in accordance with section 153.48, Customs Regulations (19 CFR 153.48).

In accordance with sections 153.32(b) and 153.37, Customs Regulations (19 CFR 153.32(b), 153.37), interested persons may present written views or arguments, or request in writing that the Secretary of the Treasury afford an opportunity to present oral views.

Any requests that the Secretary of the Treasury afford an opportunity to present oral views should be addressed to the Commissioner of Customs, 2100 K Street NW., Washington, D.C. 20229, in time to be received by his office not later than September 12, 1973. Such requests must be accompanied by a statement outlining the issues wished to be discussed.

Any written views or arguments should likewise be addressed to the Commissioner of Customs in time to be received by his office not later than September 19, 1973

This notice, which is published pursuant to § 153.34(a), Customs regulations (19 CFR 153.34(a)), shall become effective upon publication in the PEDERAL REGISTER. It shall cease to be effective on December 5, 1973, unless previously revoked.

[SEAL] JAMES B. CLAWSON,
Acting Assistant Secretary
of the Treasury.

[FR Doc.73-18863 Filed 9-4-73;8:45 am]

DEPARTMENT OF THE INTERIOR

Bureau of Land Management
WORLAND DISTRICT ADVISORY BOARD
Notice of Meeting

AUGUST 28, 1973.

Notice is hereby given that the Worland, Wyoming, District Advisory Board will hold a business meeting on September 11, 1973, at the Worland District Office of the Bureau of Land Management, 1700 Robertson Avenue, Worland, Wyoming. The agenda for the meeting will include an explanation and discussion of the proposed Wyoming State district reorganization, weed and brush herbicide control and information on wildhorse regulations.

The meeting will be open to the public and will start at 9:30 a.m. m.d.t.

Any interested person may file a written statement for consideration by the board by sending it to the chairman, in care of the cochairman: Worland Dis-

trict Manager, P.O. Box 119, Worland, Wyoming 82401.

RICHARD E. CLEVELAND, Worland District Manager.

[FR Doc.73-18706 Filed 9-4-73;8:45 am]

National Park Service NATIONAL REGISTRY OF NATURAL LANDMARKS

Revision of List

Pursuant to authority contained in the Act of August 21, 1935 (49 Stat. 666, 16 U.S.C. 461), the National Park Service, Department of the Interior is administering and implementing a natural areas program, including the National Registry of Natural Landmarks. It is the purpose of this notice to revise the National Registry of Natural Landmarks as published in the Federal Register of January 29, 1972 at page 1496.

It is the purpose of this revised notice. through publication of the following information and list of sites, to apprise the public as well as governmental agencies, associations, and all other organizations and individuals interested in the preservation of nationally significant natural areas, of the objectives of the Natural Landmarks Program, of the methods used in identifying potential natural landmarks, and of the criteria used in evaluating natural areas. Sites listed in this notice have been determined to be eligible for inclusion in the National Registry of Natural Landmarks. Those which have been registered are indicated by an asterisk.

Dated August 16, 1973.

ERNEST ALLEN CONNALLY, Associate Director, National Park Service.

THE NATURAL LANDMARKS PROGRAM

I. THE NATIONAL REGISTRY OF NATURAL LANDMARKS AND PROCEDURES FOR REGISTRATION

A. Program Objective.—The objective of the Natural Landmarks Program is to assist in the preservation of a variety of significant natural areas which, when considered together, will illustrate the diversity of the country's natural history. This objective is attained through identification of sites eligible for inclusion in the national registry. Natural landmark registration is voluntary and does not change ownership.

Inclusion in the national registry is intended to (1) encourage the preservation of sites illustrating the geological and ecological character of the United States, (2) enhance the educational and scientific value of sites thus preserved, (3) strengthen cultural appreciation of natural history, and (4) foster a wider interest and concern in the conservation of the Nation's natural heritage.

B. Inventory of natural areas.—To provide a logical and scientific basis for the selection of natural landmarks which adequately represent the natural his-

tory of the United States the National Park Service has developed a system of natural history themes as follows:

LANDFORMS OF THE PRESENT

Piains, plateaus, mesas.
Cuestas and hogbacks.
Mountain systems.
Works of volcanism.
Hot water phenomena.
Sculpture of the land.
Eoilan landforms.
River systems and lakes.
The work of glaciers.
Seashores, lakeshores, Islands.
Coral islands, reefs, atolls.
Earthquake phenomena.
Caves and springs.
Meteor impact sites.

GEOLOGICAL HISTORY OF THE EARTH

Precambrian.
Cambrian—Early Silurian.
Late Silurian—Devonian.
Mississippian—Triassic.
Permian—Cretaceous.
Paleocene—Eocene.
Oligocene—Recent.

LAND ECOSYSTEMS

Tundra,
Boreal forest,
Pacific forest.
Dry coniferous forest and woodland,
Eastern deciduous forest.
Grassland.
Chaparral.
Deserts.
Tropical ecosystems.

AQUATIC ECOSYSTEMS

Marine environments, Estuaries, Streams, Underground ecosystems, Lakes and ponds,

A prime product of the natural history theme studies is an inventory of the country's natural areas. Evaluation focuses attention on these areas and often stimulates communities to take action in preserving significant sites.

C. Natural landmarks criteria.—The National Registry of Natural Landmarks parallels, at the national level, the National Register of Historic Places, in that it lists the natural areas that are nationally significant (natural landmarks) similar in importance to the historical or archeological areas that are nationally significant (national historic landmarks) listed in the National Register of Historic Places. The difference between the two registers is that the National Register of Historic Places in cludes, in addition to national historic landmarks, historic areas administered by the National Park Service and historic places of State and local significance.

To be eligible for natural landmark designation, a site must be nationally significant as possessing exceptional value or quality in illustrating or interpreting the natural heritage of our Nation, and must present a true, accurate, essentially unspoiled example of natural

Examples of the kinds of areas which could qualify for natural landmark designation are:

Outstanding geological formations or features significantly illustrating geologic processes.

2. Significant fossil evidence of the de-

velopment of life on earth.

An ecological community significantly illustrating characteristics of a physiographic province or a biome.

4. A biota of relative stability maintaining itself under prevailing natural conditions, such as a climatic climax community.

5. An ecological community significantly illustrating the process of succession and restoration to natural condition following disruptive change.

6. A habitat supporting a vanishing,

rare, or restricted species.

7. A relict flora or fauna persisting from an earlier period.

8. A seasonal haven for concentrations of native animals, or a vantage point for observing concentrated populations, such as a constricted migration route.

9. A site containing significant evidence illustrating important scientific

discoveries.

10. Examples of the scenic grandeur of

our natural heritage.

D. Implementation .- If, after study by the National Park Service, the site is considered to possess the requisite characteristics for eligibility, it is proposed to the Advisory Board on National Parks, Historic Sites, Buildings and Monuments of the Secretary of the Interior for consideration. The Advisory Board, authorized by the Act of August 21, 1935 (49 Stat. 667; 16 U.S.C. 463), is composed of 11 nonsalaried members who are appointed by the Secretary and who are competent in the fields of history, archeology, architecture, or human geography. The Advisory Board's recommendation is transmitted to the Secretary and, if approved by him, the Secretary may announce that the site is eligible for registration. The owner is then invited to apply for a certificate and bronze plaque designating the site a registered natural

Registration as a natural landmark requires agreement by the landowner to preserve, insofar as possible, the significant natural values contained in the alte. In applying for such registration the owner agrees to so manage the site as to prevent the destruction or deterioration of the values upon which landmark status is based. He relinquishes none of his rights and privileges as to use of the land. Neither does the Department of the Interior gain any possessory interest in lands so designated, but will, upon request, provide consultative assistance in protecting and interpreting the natural values of the site.

Should the natural integrity of an eligible site deteriorate from either nattral or man-induced causes, to the exent that national significance is lost, the site will be removed from the National Registry of Natural Landmarks.

The National Park Service will evaluate new sites and reevaluate designated sites periodically to determine their curtent eligibility for landmark status. Additions to and deletions from the National Registry of Natural Landmarks will be published at intervals in the FEDERAL REGISTER.

II. SITES ELIGIBLE FOR INCLUSION IN THE NATIONAL REGISTRY OF NATURAL LANDMARKS

(Sites which have been registered are indicated by an asterisk.)

*Cathedral Caverns, Marshall County-4 miles northeast of Grant.

*Shelta Cave, Madison County-within city limits of Huntsville.

ALASKA

*Aniakchak Crater, 24 air miles southeast of Port Heiden.

*Arrigetch Peaks, 250 mlles northwest of Fairbanks.

*Bogoslof Island, 25 miles north of Umnak Island in the Aleutian Archipelago.

*Brown Bear Refuge, 200 miles southwest of Anchorage.

*Clarence Rhode National Wildlife Range, on the Bering Sea coast between Hooper Bay and Kipnuk.

*Lake George, 44 miles northeast of An-

*Malaspina Glacier, 25 miles west of Yakutat

Middleton Island, 155 miles southeast of Anchorage.

*Mount Veniaminof, 20 miles northeast of Port Moller on the Alaska Peninsula.

*Shishaldin Volcano, 50 miles west of Cold

Bay in the Aleutian Archipelago.
*Simeonof National Wildlife Refuge, in the Shumagin Island Group south of the Alaska Peninsula.

*Unga Island, in the Shumagin Island Group, 500 miles southwest of Anchorage.

*Walker Lake, 250 air miles northwest of

Fairbanks.

*Walrus Islands, 375 miles southwest of Anchorage in Bristol Bay.

*Worthington Glacier, 30 miles east of

AMERICAN SAMOA

Aunuu Island-Off the northeast coast of Tutuila Island.

Cape Taputapu-On the western tip of Tutulla Island.

Fogamoa Crater-Or the southwest coast of Tutiula Island.

Leala Shoreline-On the southwest coast of Tutuila Island.

Matajao Peak-11/2 miles south of the city of Pago Pago.

Rainmaker Mountain-East of Pago Pago Harbor.

Valava Straff-On the north-central coast of Tutulla Island.

*Barringer Meteor Crater, County-15 miles west of Winslow. Coconino

Hualapai Valley Joshua Trees, Mohave County-45 miles north of Kingman.

*Patagonia-Sonoita Sanctuary, Creek Santa Crue County-1 mile from Patagonia. south of Sierra Vista.

Willcox Playa, Cochise County-4 miles south of Willcox.

ARKANSAS

Mammoth Spring, Fulton County-northeast of Mammoth Spring.

Amboy Crater, San Bernardino Countywest of the town of Amboy.

*Audubon Canyon Ranch, Marin County-20 miles northwest of San Francisco.

Cinder Cone Natural Area, San Bernardino County-24 miles east of Baker.

*Elder Creek, Mendocino County-4 miles north of Branscomb

*Emerald Bay, El Dorado County-16 miles

south of Tahoe City.

"Miramar Mounds, San Diego County—12
miles north of central San Diego.

"Point Lobos, Monterey County—near

Carmel. *Pygmy Forest,

Mendocino County-5 miles southeast of Fort Bragg *Rainbow Basin, San Bernardino County-

8 miles north of Barstow. *Rancho La Brea, Los Angeles County-

Hancock Park, Wilshire Boulevard, Los An-*San Andreas Fault, San Benito County-

at Clenega Winery, 8 miles south of Hollister. *Sand Hills, Imperial County-15 miles west of Yuma.

Tijuana River Estuary, San Diego Countybetween the city of Imperial Beach and the

U.S.-Mexico International Boundary *Trong Pinnacles, San Bernardino County -7 miles south of Argus.

Turtle Mountains Natural Area, San Bernardino County-30 miles south-southwest of Needles.

COLORADO

*Garden of the Gods, El Paso County-10 miles northeast of Pikes Peak.

Lost Creek Scenic Area, Park County-40 miles southwest of Denver.

Raton Mesa, Las Animas County-10 miles south of Trinidad.

Slumgullion Earth flow, Hinsdale County-

2 miles south of Lake City.
*Summit Lake, Clear Creek County-13

miles southwest of Idaho Springs.

CONNECTICUT

*Bartholomew's Cobble, Litchfield County, Conn. and Berkshire County, Mass., 1 mile west of Ashley Falls, Mass. (See also Massachusetts.)

Bingham Pond Bog, Litchfield County— 1 mile east of the New York State boundary. Chester Cedar Swamp, Middlesex County-miles west-southwest of the village of

*Dinosaur Trackway, Hartford County-5 miles south of Hartford.

Pachaug-Great Meadow Swamp, New London County-11/2 miles northeast of the village of Voluntown.

FLORIDA

*Big Cypress Bend, Collier County-1 mile west of Fiorida 29 on Tamiami Trail (U.S. 41) *Corkscrew Swamp Sanctuary, Coll County-25 miles southeast of Fort Myers. Collier

*Ichetucknee Springs, Columbia and Suwannee Counties-Ichetucknee Springs State Park, 22 miles southwest of Lake City.

Ligaumvitae Key, Monroe County-one-half mile north of U.S. 1 causeway, near

north end of Matecumbe Key.

*Manatee Springs, Levy County-Manatee
Springs State Park, 50 miles west-southwest of Gainesville.

*Rainbow Springs, Marion County-4 miles north-northeast of Dunnellon.

*Reed Wilderness Seashore Sanctu. Martin County-8 miles south of Stuart Sanctuary,

*Silver Springs, Marion County-5 miles northeast of Ocala.

*Wakulla Springs, Wakulla County-15 miles south of Tallahassee.

*Cason J. Callaway Memorial Forest, Harris County-1 mile west of Hamilton.

*Marshall Forest, Floyd County-near

*Wassaw Island, Chatham County-14 miles south of Savannah, in the Atlantic Ocean.

GUAM

*Facpi Point-On the southwest coast of

*Fouha Point-On the southwest coast of Guam-1 mile northwest of the village of

*Mount Lamlam-3 miles north-northeast of the village of Umatac.

Punta de Dos Amantes-2 miles north of

the village of Tumon.

*Diamond Head, Island of Oahu-in city of Honolulu.

Iao Valley, Island of Maui-West of the city of Walluku.

*Kanaha Pond, Island of Maui-1 mile west of Kahulul Airport.

Koolau Range Pali, Island of Oahu-3 miles south of the village of Kaneohe,

Koolaupoko District.

Makalawena Marsh, Island of Hawaii—near Kawikahale Point.

Mauna Kea, Island of Hawaii-25 miles

west-northwest of the city of Hilo.

North Shore Cliffs, Island of Molokai—
Between the villages of Halawa and Kalaupapa.

*The Great Rift, Power County-25 miles northwest of American Falls.

TLLINOIS

*Allerton Natural Area, Platt County-28

miles southwest of Champaign.

*Forest of the Wabash, Wabash County—3
miles south of Mount Carmel.

*Heron Pond and Wildcat Bluff Nature Preserve, Johnson County-5 miles southwest

of Vienna. *Horseshoe Lake Nature Preserve, Alex-ander County-11 miles northwest of Cairo.

*Mississippi Palisades, Carroll County-North of Savanna.

*Volo Bog Nature Preserve, Lake County-

1½ miles north-northwest of Volo.
*Wauconda Bog Nature Preserve, Lake
County—South of the village of Wauconda.

INDIANA

Bear Creek Canyon, Fountain County-7 miles northeast of Covington.

Big Walnut Creek, Putnam County—35 miles west of Indianapolis.

*Cowles Bog, Porter County—10 miles west of Michigan City.

*Donaldson Cave System and Woods, Lawrence County-Spring Mill State Park, 5 miles east of Mitchell.

Ohio Coral Reef (Falls of the Ohio) -in Ohio River, between Jeffersonville, Ind., and

Louisville, Ky. (See also Kentucky.)
*Pine Hills Natural Area, Montgomery County-15 miles west-southwest of Crawfordsville.

*Pinhook Bog, La Porte County-4 miles south of Waterford.

Rise at Orangeville, Orange County-south West Road in Orangeville.

*Tolliver Swallowhole, Orange County—4
miles north-northwest of Paoli.

*Wesley Chapel Gulf, Orange County—2
miles east-southeast of Orangeville.

*Wyandotte Cave, Crawford County-Harrison-Crawford State Forest, 30 miles west of New Albany.

*Cayler Prairie, Dickinson County-5 miles west of West Okoboji.

*Hayden Prairie, Howard County-12 miles northwest of Cresco.

*White Pine Hollow Preserve, County-20 miles northwest of Dubuque.

KANSAS

*Baker University Wetlands, County-3 miles south of Lawrence. Douglas

*Monument Rocks Natural Area, Gove County-23 miles south of Oakley.

KENTUCKY

*Lilly Cornett Woods, Letcher County-25 miles southeast of Hazard.

Ohio Coral Reef (Falls of the Ohio)—in Ohio River between Louisville, Ky., and Jeffersonville, Ind. (See also Indiana.)

MAINE

Colby-Marston Preserve, Kennebec Coun--2 miles north of the village of Belgrade. Crystal Bog, Aroostook County-4 miles ty-

southeast of Patten. *Gulf Hayas, Piscataquis County-14 air

miles east of Greenville.

Meddybemps Heath, Washington County-3 miles west of the village of Meddybemps. Monhegan Island, Lincoln County—10 miles south of Port Clyde, in the Atlantic

*Mount Katahdin, Piscataquis County-20 miles north of Millinocket.

Orono Bog, Penobscot County-6 miles southwest of Old Town.

Passadumkeag Marsh and Boglands, Penobscot County-2 miles east of Passadumkeag.

Penney Pond-Joe Pond Complex, Kennebec County-21/2 miles south of the village of Belgrade.

*Battle Creek Cypress Swamp, Calvert County-on Md. 506, between Bowens and

*Cranesville Swamp Nature Sanctuary, Garrett County, Md., and Preston County, W. Va.—9 miles north of Terra Alta, W. Va. (See also West Virginia.)

Sugar Loaf Mountain, Frederick County-16 miles south of Frederick.

MASSACHUSETTS

*Acushnet Cedar Swamp, Bristol County-northwest of New Bedford.

*Bartholomew's Cobble, Berkshire County, Mass., and Litchfield County, Conn., 1 mile west of Ashley Falls, Mass. (See also Connecticut.)

*Fannie Stebbins Refuge, Hampden County—5 miles south of Springfield. *Gay Head Cliffs, Dukes County—on western tip of Martha's Vineyard.

Lynnfield Marsh, Essex and Middlesex Counties-between Wakefield and South Lynnfield.

Poutwater Pond, Worcester Countynorth of Holden.

MICHIGAN

Grand Mere Lakes, Berrien County-2 miles southwest of Stevensville.

Warren Woods Natural Area,

Berrien County-3 miles north of Three Oaks.

*Ancient River Warren Channel, Traverse and Big Stone Counties, Minn., and Roberts County, S. Dak.—near Browns Valley, Minn. (See South Dakota.)

*Itasca Natural Area, Clearwater County-30 miles southwest of Bemidji.

*Lake Agassiz Peatlands, Koochiching County-30 airline miles south of International Falls.

MISSISSIPPI

Oak Disjunct, Calhoun *Chestnut County-16 miles north of Bruce.

*Mississippi Petrifled Forest, Madison County-17 miles north of Jackson.

*Maramec Spring, Phelps County-Ma-ramec Spring Park, 8 miles southeast of St. James.

*Mark Twain and Cameron Caves, Marion County-2 miles southeast of Hannibal.

*Marvel Cave, Stone County-50 miles south of Springfield.

MONTANA

Bug Creek Fossil Area, McCone County-34 miles southeast of Fort Peck.

Glacial Lake Missoula, Sanders County-12 miles north of Perma.

Hell Creek Fossil Area, Garfield County-16 miles north of Jordan.

NEBRASKA

*Fontenelle Forest, Sarpy County-1 mile south of Omaha.

NEVADA

*Hot Creek Springs and . County-35 miles south of Lund. Marsh, Nye

Ichthyosaur Site, Nye County-20 miles east of the town of Gabbs.

Lunar Crater, Nye County-70 miles eastnortheast of Tonopah.

Ruby Marsh, Elko and White Pine Coun-

ties-50 miles south-southeast of Elko. Timber Mountain Caldera, Nye County

*Valley of Fire, Clark County-35 miles northeast of Las Vegas.

NEW HAMPSHIRE

East Inlet Natural Area, Coos Countynortheast of Second Connecticut Lake.

*Floating Island, Coos County-21/2 miles east-northeast of Errol.

*Franconia Notch, Grafton County-16 miles south of Littleton.

Heath Pond Bog, Carroll County-2 miles northeast of Center Ossipee.

*Madison Boulder, Carroll County-3 miles

north of Madison.

North of Madison.

Wildlife Refuge, Whitefi County-2 miles northeast of Whitefield Airport in Jefferson.

Spruce Hole Bog, Strafford County-2 miles west-southwest of Durham.

NEW JERSEY

*Great Falls of Paterson, Passale County-Paterson.

*Great Swamp, Morris County-7 miles south of Morristown.

*Moggy Hollow Natural Area, Somerset County-2 miles east of Far Hills. Riker Hill Fossil Site, Essex County-in

the borough of Roseland. *Stone Harbor Bird Sanctuary, Cape May

County-Stone Harbor Borough. *Sunfish Pond, Warren County-3 miles northeast of the Delaware Water Gap.

Troy Meadows, Morris County-near Troy New Mexico

Grants Lava Flow, Valencia County—ex-tends about 25 miles south from Grants, between New Mexico 117 on the east and New Mexico 53 on the west.

NEW YORK

Bear Swamp, Albany County-3 miles south of the village of Westerlo.

*Bergen-Byron Swamp, Genesee Countybetween Bergen and Byron.

Big Reed Pond, Suffolk County-3 miles

west of Montauk Point. *Deer Lick Nature Sanctuary, Cattaraugus County—4 miles southeast of Gowanda.

Dexter Marsh, Jefferson County—2 miles southwest of the town of Dexter.

Caves, Fault-Ice *Ellenville County-5 miles southeast of Ellenville.

*Fall Brook Gorge, Livingston County-11/4 miles south of Genesco. *Fossil Coral Reef, Genesee County-

miles northwest of Le Roy. Gardiner's Island, Suffolk Countymiles east of New York City, in Block Island

Sound off Long Island. Hart's Woods, Monroe County-10 miles southeast of Rochester.

*Ironsides Island, Jefferson and St. Lawrence Counties-in St. Lawrence River, 8 miles northeast of town of Alexandria Bay.

Lakeview Marsh and Barrier Beach, Jeffer-

son County-20 miles southwest of Water-

McLean Bogs, Tompkins County-11/2 miles east-southeast of the village of McLean.

*Mendon Ponds Park, Monroe County-11

miles south of Rochester.

*Mianus River Gorge, Westchester County-2 miles south of Bedford.

Monteguma Marshes, Seneca County-4 miles northeast of Seneca Falls.

Moss Lake Bog, Allegany County-2 miles

southwest of Houghton.
Oak Orchard Creek Marsh, Genesee and Orleans Counties-7 miles south-southeast of

*Petrified Gardens, Saratoga County-4 miles west of Saratoga Springs

Round Lake, Onondaga County-2 miles northeast of Fayetteville.

Thompson Pond, Dutchess County-20

miles east of Kingston.

Zurich Bog, Wayne County-9 miles north of the city of Newark.

NORTH DAKOTA

Two-Top Mesa and Big Top Mesa, Billings County-14 airline miles northwest of Pairfield.

OHIO

*Brown's Lake Bog, Wayne County-11 miles southwest of Wooster.

*Buzzardroost Rock-Lynz Prairie, Adams County-75 miles east of Cincinnati.

*Cedar Bog, Champaign County-7 miles north of Springfield.

*Clear Fork Gorge, Ashland County-4 miles south of Loudenville.

*Clifton Gorge, Greene County-10 miles south of Springfield.

*Cranberry Bog, Licking County-20 miles east of Columbus.

*Dysart Woods, Belmont County-11 miles southwest of St. Clairsville.

*Glacial Grooves State Memorial, Eric County—on Kelleys Island, 5 miles off-shore from Marblehead.

*Glen Helen Natural Area, Greene Coun--in Yellow Springs.

*Holden Natural Areas, Lake and Geauga

Counties—30 miles east of Cleveland.
*Hueston Woods, Butler and Preble Counties—4½ miles north of Oxford.

*Mentor Marsh, Lake County-near Painesville

*Tinkers Creek Gorge, Cuyahoga County-12 miles southeast of Cleveland.

OREGON

*Crown Point, Multnomah County-24 miles east of Portland.

*Horse Ridge Natural Area, Deschutes County-16 miles southeast of Bend.

*John Day Fossil Beds, Grant County-40 miles west of town of John Day on Oregon 19.

PENNSYLVANIA

*Bear Meadows Natural Area, Centre County-6 miles southeast of State College. *Box Huckleberry Site, Perry County-1 mile south of New Bloomfield.

*Cook Forest, Clarion County-Cook Forest State Park.

*Ferncliff Peninsula Natural Area, Fayette County—Ohiopyle State Park, 20 miles southeast of Connellsville.

*Ferneliff Wildflower and Wildlife Preserve, Lancaster County-3 miles west of Wakefield. *Florence Jones Reineman Wildlife Sanctuary, Perry and Cumberland Counties-8

miles northwest of Carlisle. *Hawk Mountain Sanctuary, Berks County-30 miles north of Reading.

Hearts Content Scenic Area, Warren County-14 miles southwest of Warren.

*Hemlocks Natural Area, Perry County-12 miles south of Blain.

*Hickory Run Boulder Field, Carbon Counin the Pocono Plateau region.

*Lake Lacawac, Wayne County-25 miles east of Scranton.

*McConnell's Mill State Park, Laurence County-40 miles north of Pittsburgh. *Pine Creek Gorge, Tioga County-12-mile

roadless stretch between Ansonia and Blackwell.

Presque Isle, Eric County-near the city of Erie.

*Snyder-Middleswarth Natural Area, Snyder County-5 miles west of Troxelville.

*Susquehanna Water Gaps, Perry County-18 miles north of Harrisburg.

*The Glens Natural Area, Sullivan and Lu-erne Counties—In Ricketts Glen State Park, 25 miles east of Williamsport.

*Tinicum Wildlife Preserve, Philadelphia County-Philadelphia.

Tionesta Scenic and Research Natural Areas, Warren and McKean Counties-7 miles south of Ludlow.

*Wissahickon Valley, Philadelphia County-Fairmount Park, Philadelphia.

SOUTH DAROTA

*Ancient River Warren Channel, Roberts County, S. Dak., and Traverse and Big Stone Counties, Minn., near Browns Valley, Minn. (See also Minnesota.)

*Bear Butte, Meade County-5 miles north of Fort Meade.

*Fort Randall Eagle Roost, Charles Mix County-directly below Fort Randall Dam, on the Missouri River.

*Sieche Hollow, Marshall and Roberts Counties-10 miles northwest of Sisseton.

*Snake Butte, Washabaugh County-Pine Ridge Reservation.

TENNESSEE

Dick Cove, Franklin County-21/2 miles

northwest of Sewance.

McAnulty's Woods, Hardeman County—within the city limits of Bolivar.

*Recifoot Lake, Lake and Obion Coun-ties-near Tiptonville.

Savage Gulf, Grundy County—25 miles southeast of McMinnville.

TEXAS

*Attwater Prairie Chicken Preserve, Colorado County-55 miles west of Houston.
*Caverns of Sonora, Sutton County-16

miles southwest of Sonora

Devil's Sinkhole, Edwards County-9 miles northeast of Rocksprings.

*Dinosaur Valley, Somervell County-just west of Glen Rose.

*Enchanted Rock, Llano and Gillespie Counties—12 miles southwest of Oxford. *Exell's Cave, Hays County-within city

limits of San Marcos. *Longhorn Cavern, Burnet County-Long-

horn Cavern State Park, 11 miles southwest of Burnet.

*Natural Bridge Caverns, Comal County-16 miles west of New Braunfels.

*Odessa Meteor Crater, Ector County-10 miles southwest of Odessa.

*Santa Ana National Wildlife Refuge, Hidalgo County-7 miles south of Alamo.

*Cleveland-Lloyd Dinosaur Quarry, Emery County-7 miles east of Cleveland.

*Joshua Tree Natural Area, Washington County-10 miles southwest of St. George.

VERMONT

Barton River Marsh, Orleans Countymiles south of Newport.

*Camel's Hump, Chittenden and Washington Counties-midway between Montpelier and Burlington.

Franklin Bog, Franklin County-1 mile east-northeast of the village of Franklin.

*Lake Willoughby Natural Area, Orleans County—Westmore Township. Little Otter Creek Marsh, Addison County— 2 miles north-northwest of Ferrisburg.

Molly Bog, Lamoille County-31/2 miles northeast of the village of Stowe.

UTRGINITA

Great Dismal Swamp, A County-20 miles west of Norfolk. Nansemond *Seashore Natural Area-Virginia Beach, near Cape Henry.

WASHINGTON

*Ginkgo Petrified Forest, Kittitas County— 29 miles east of Ellensburg. *Grand Coulee, Grant County—between towns of Grand Coulee and Soap Lake.

*Mima Mounds, Thurston County-west of Little Rock

Nisqually Delta, Pierce and Thurston Counties—15 miles east of Olympia.

*Point of Arches, Clallam County—10

miles south of Cape Flattery.

*Steptoe Butte, Whitman County-50 miles south of Spokane.

WEST VIRGINIA

*Cathedral Park, Preston County—4 miles west of U.S. 219, on U.S. 50.
*Cranesville Swamp Nature Sanctuary, Preston County, W. Va., and Garrett County, Md.—9 miles north of Terra Alta, W. Va. (See also Maryland.)

Germany Valley Karst Area, Pendleton County-between Riverton and Mouth of Seneca.

*Ridges Sanctuary, Door County-60 miles northeast of Green Bay.

WYOMING

Como Bluff, Carbon and Albany Counties-5 miles east of Medicine Bow.

*Crooked Creek Natural Area, Big Horn County-15 miles northeast of Lovell

Lance Creek Fossil Area, County-25 miles north of Lusk.

Two Ocean Pass, Teton County—on the Continental Divide in Teton National Forest.

[FR Doc.73-18582 Filed 9-4-73;8:45 am]

Office of the Secretary

[INT FES 73-51]

CASCADE IRRIGATION DISTRICT REHA-**BILITATION & BETTERMENT PROGRAM,** YAKIMA, WASH.

Availability of Supplement to Final **Environmental Statement**

The Department of the Interior has prepared a supplement to the Final Environmental Statement on the rehabilitation and betterment program for the Cascade Irrigation District in central Washington. The supplement was prepared as a result of changes in the project proposal.

Copies are available for inspection at the following locations:

Office of Ecology, Room 7620, Bureau of Reclamation

Department of the Interior Washington, D.C. 20240

Telephone: (202) 343-4991 Division of Engineering Support, Technical Services Branch

E & R Center, Denver Federal Center Denver, Colorado 80225

Telephone: (303) 234-3007 Office of the Regional Director, Bureau of Reclamation

P.O. Box 043, Boise, Idaho 83724 Telephone: (208) 342-2711, Ext. 2109 Yakima Project Office, Bureau of Reclamation

P.O. Box 1377, Yakima, Washington 98901 Telephone: (509) 248-4810, Ext. 316

Single copies of the draft statement may be obtained on request to the Commissioner of Reclamation or the Regional Director. In addition, copies may be purchased from the National Technical Information Service, Department of Commerce, Springfield, Virginia 22151, Piease refer to the statement number above.

Dated August 29, 1973.

JOHN M. SEIDL, Deputy Assistant Secretary of the Interior.

[FR Doc.73-18723 Filed 9-4-73;8:45 am]

DEPARTMENT OF AGRICULTURE

Soil Conservation Service

NARGE CREEK FLOOD PREVENTION PROJECT MEASURE, TRADEWATER RIVER AREA PROJECT, KY.

> Availability of Final Environmental Statement

Pursuant to section 102(2)(C) of the National Environmental Policy Act of 1969, the Soil Conservation Service, Department of Agriculture has prepared a final environmental statement for the Narge Creek Flood Prevention Project Measure, USDA-SCS-RC&D-ES-(ADM)-73-RD-1(F).

The environmental statement concerns a plan for flood prevention and land drainage. The planned works of improvement include conservation land treatment, supplemented by 6.2 miles of channel modification.

The final environmental statement was filed with CEQ on August 21, 1973.

Copies are available for inspection during regular working hours at the following locations:

USDA, Soil Conservation Service Washington Office, South Agriculture Building

Room 5105A, 12th Street and Independence Avenue SW.

Washington, D.C. 20250

USDA, Soil Conservation Service 333 Waller Avenue Lexington, Kentucky 40504 Narge Creek Project, Kentucky Notice of Availability of Final Environmental Statement

Copies are also available from the National Technical Information Service, U.S. Department of Commerce, Springfield, Va. 22151, for \$4 each. Please refer to the name and number of statement when ordering.

Copies of the environmental statement have been sent to various Federal, State, and local agencies as outlined in the Council on Environmental Quality Guidelines.

(Catalog of Federal Domestic Assistance Program No. 10.901, National Archives Reference Services.)

Dated August 28, 1973.

EARL E. FENTON, Acting Deputy Administrator for Field Services, Soil Conservation Service.

[PR Doc.73-18741 Filed 9-4-73;8:45 am]

POCATALICO RIVER BASIN JOINT SURVEY-INTERIM REPORT, W. VA.

Availability of Final Environmental Statement

Pursuant to section 102(2) (C) of the National Environmental Policy Act of 1969, the Soil Conservation Service, U.S. Department of Agriculture, and the Corps of Engineers, U.S. Department of the Army, have prepared a final environmental statement for the Pocatalico River Basin Joint Survey—Interim Report, Roane, Jackson, Putnam, and Kanawha Counties, West Virginia, USDA-SCS-ES-RB-(LEG)-73-1(F).

The environmental statement concerns an interim plan to provide a water supply source for four small rural communities, as well as measures for flood prevention, streamflow regulation, incidental recreation, and watershed protection. The planned works of improvement consist of two multiple-purpose structures for floodwater and sediment detention, water supply, and streamflow regulation storage. Incidental recreation facilities will be installed at both sites. Conservation land treatment will be applied on the drainage areas above the two structures.

The final environmental statement was transmitted to CEQ on August 24, 1973.

Copies are available for inspection during regular working hours at the following locations:

Soil Conservation Service, USDA, South Agriculture Building,

Room 5227, 14th and Independence Avenue SW.

Washington, D.C. 20250

Soil Conservation Service, USDA, 209 Prairie
Avenue

P.O. Box 865

Morgantown, West Virginia 26505

Copies are available for purchase from the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22151. Please order by name and number of statement given above. The estimated cost is \$5.50.

(Catalog of Federal Domestic Assistance Program No. 10.906, National Archives Reference Services.)

Dated August 28, 1973.

J. W. HAAS.

Acting Deputy Administrator
for Water Resources, Soil
Conservation Service, USDA.

[FR Doc.73-18742 Filed 9-4-73;8:45 am]

DEPARTMENT OF COMMERCE

National Technical Information Service GOVERNMENT-OWNED INVENTIONS

Notice of Availability for Licensing

The inventions listed below are owned by the U.S. Government and are available for licensing in accordance with the GSA Patent Licensing Regulations.

Copies of patent applications, either paper copy (PC) or microfiche (MF), can be purchased from the National Technical Information Service (NTIS), Springfield, Virginia 22151, at the prices cited. Requests for copies of patent applications must include the PAT-APPL number and the title. Requests for licensing information should be directed to the address cited with each copy of the patent application.

Paper copies of patents cannot be purchased from NTIS but are available from the Commissioner of Patents, Washington, D.C. 20231, at \$0.50 each. Requests for licensing information should be directed to the address cited below for each agency.

DOUGLAS J. CAMPION, Patent Program Coordinator, National Technical Information Service.

U.S. DEPARTMENT OF HEALTH, EDUCA-TION AND WELFARE, National Institutes of Health, Chief, Patent Branch, Westwood Building, Bethesda, Maryland 20014.

Building, Bethesda, Maryland 20014.
Patent Application 291,180 Direct Digital
Control Pipette; filed 22 September 1972;
PC83.00/MP80.95.

Patent Application 354,098 Issolation and Purification of Active Principle, Fruit of Synsepalum Dulcificum and Method of Treatment of Obesity; filed 24 April 1973; PC\$3.00/MP\$0.95.

Patent Application 275,777 Countercurrent Chromatography with Flow Through Coll Planet Centrifuge; filed 27 July 1972; PC83.00/MF80.95.

Patent Application 330,647 Non Contact Photographic Identification Device or Labeling Gamma Camera Images; filed 8 February 1973; PC\$3.00/MF\$1.45.

February 1973; PC\$3.00/MF\$1.45. Patent 3,715.281 Transgrow; filed 23 October 1970, patented 6 February 1973; not available NTIS.

U.S. DEPARTMENT OF COMMERCE, Assistant General Counsel for Administration, Washington, D.C. 20230.

Patent 3,312,949 Stack Forming Synchronizer for a Sorting Machine; filed 6 April 1964, patented 4 April 1967, not available NTIS.

Patent 3,410,100 High Vacuum Baffle Using Cooled Chevron Shaped Members; filed 18 March 1965, patented 12 November 1968; not available NTIS.

Patent 3,571,597 System for Phase Stabilizing Widely Separated Oscillators; filed 14 October 1969 patented 23 March 1971; not available NTIS.

Patent 3,329,957 Antenna System Employing Human Body as Radiator; filed 5 May 1959, patented 4 July 1967; not available NTIS. Patent 3,397,392 Information Storage and Category Selector; filed 31 October 1966, patented 13 August 1968; not available

patented 13 August 1968; not available NTIS. Patent 3,273,160 Identing Recorder with Illumination Means: filed 15 May 1964, pat-

Patent 3,273,160 Identing Recorder with Indmination Means; filed 15 May 1964, patented 13 September 1966; not available NTIS. U.S. ATOMIC ENERGY COMMISSION, Assistant General Counsel for Patents, Washington, D.C. 20545.

Patent Application 223,270 A Hemodialyzer with Tapered Slit Blood Ports and Baffles; filed 3 February 1972; PC\$3.00/MP\$0.95. U.S. DEPARTMENT OF THE INTERIOR, Branch of Patents, 18th and C Streets NW.,

Washington, D.C. 20240.

Patent Application 50,313 Removal of Sulfur Oxides from Gases with Calcium Phos-phates and Phosphate Rock; filed 26 June

1970; PC\$3.00/MP\$0.95.
Patent 3,739,077 Multiple Conductor Bundle Support and Spacer; filed 31 May 1972, patented 12 June 1973; not available NTIS.

Patent 3,737,384 Decomposition of Halo-genated Organic Compounds Using Metallic Couples: filed 23 December 1970, patented 5 June 1973; not available NTIS. Patent 3,725, 235 Dynamically Formed Elec-

trodialysis Membranes; filed 23 March 1971, patented 3 April 1973; not available NTIS. Patent 3,725,260 Separation of Pesticides from Lipids by GEL Permeation Chromatography; filed 28 December 1971, patented 3 April 1973; not available NTIS.

[FR Doc.73-18726 Filed 9-4-73;8:45 am]

Office of the Secretary ESTIMATES OF VOTING AGE POPULATION; JULY 1, 1972

In FR Doc. 73-13896 appearing at page 18476 in the issue of Wednesday, July 11, 1973, make the following changes:

The first entry in the second column for the State of Alabama reading "2,249" should read "2,294".

2. The eighteenth entry in the second column for the State of California reading "424" should read "324".

3. The first entry in the second column for the State of Maryland reading "2,697" should read "2,679".

4. The ninth entry in the second column for the State of Texas reading "228" should read "288".

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

[Docket No. D-73-253]

ASSISTANT REGIONAL ADMINISTRATOR ET AL.

Delegation of Authority

The officers appointed to the following listed positions in Region IX (San Francisco) are hereby designated to serve as Acting Deputy Regional Administrator, Region IX (San Francisco), during a vacancy in the position of, or during the absence of, the Deputy Regional Administrator, with all the powers, functions, and duties redelegated or assigned to the Deputy Regional Administrator: Provided. That no officer is authorized to serve as Acting Deputy Regional Administrator unless all other officers whose titles precede his in this designation are unable to act by reason of absence: Provided, further, That if an officer designated below is serving as Acting Regional Administrator, the officer whose title follows his in this designation shall serve as Acting Deputy Regional Administrator:

Assistant Regional Administrator for

Administration, 2. Assistant Regional Administrator for Equal Opportunity.

3. Assistant Regional Administrator for Housing Management.

4. Regional Counsel.

5. Assistant Regional Administrator for Community Development.

6. Assistant Regional Administrator for Housing Production and Mortgage Credit.

7. Assistant Regional Administrator for Community Planning and Management,

This designation supersedes the designation effective as of January 8, 1973 (38 FR 8188, March 29, 1973).

Effective as of the 6th day of August, 1973

> ROBERT H. BAIDA. Regional Administrator. Region IX (San Francisco).

[FR Doc.73-18708 Filed 9-4-73;8:45 am]

[Docket No. D-73-252]

DEPUTY REGIONAL ADMINISTRATOR REGION IX, ET AL.

Delegation of Authority

The officers appointed to the following listed positions in Region IX (San Francisco) are hereby designated to serve as Acting Regional Administrator, Region IX (San Francisco), during the absence of the Regional Administrator with all the powers, functions, and duties redelegated or assigned to the Regional Administrator: Provided, That no officer is authorized to serve as Acting Regional Administrator unless all other officers whose title precede his in this designation are unable to act by reason of absence:

1. Deputy Regional Administrator.

2. Assistant Regional Administrator for Administration.

3. Assistant Regional Administrator for Equal Opportunity.

4. Assistant Regional Administrator for Housing Management.

5. Regional Counsel.

6. Assistant Regional Administrator for Community Development.

7. Assistant Regional Administrator Housing Production and Mortgage Credit.

8. Assistant Regional Administrator Community Planning and Management. for

(Delegation effective May 4, 1962, 27 FR 4319; Interim Order II, 31 FR 815, January 21, 1966.)

This designation supersedes the designation effective as of January 8, 1973 (38 FR 7414, March 21, 1973).

Effective as of the 6th day of August, 1973.

> ROBERT H. BAIDA. Regional Administrator Region IX (San Francisco).

[FR Doc.73-18707 Filed 9-4-73,8:45 am]

DEPARTMENT OF TRANSPORTATION

Federal Highway Administration CONNECTICUT

Proposed Action Plan

Connecticut Department Transportation has submitted to the Federal Highway Administration of the U.S. Department of Transportation a proposed Action Plan as required by Policy and Procedure Memorandum 90-4 issued on June 1, 1973. The Action Plan outlines the organizational relationships, the assignments of responsibility, and the procedures to be used by the State to assure that economic, social and en-vironmental effects are fully considered in developing highway projects and that final decisions on highway projects are made in the best overall public interest. taking into consideration: (1) needs for fast, safe and efficient transportation: (2) public services; and (3) costs of eliminating or minimizing adverse effects.

The proposed Action Plan is available for public review at the following loca-

- 1. Connecticut Department of Transportation Room 203 24 Wolcott Hill Road
- Wethersfield, Connecticut 06109 Federal Highway Administration Division Office 990 Wethersfield Avenue
- Hartford, Connecticut 06114 FHWA Regional Office—Region 1 4 Normanskill Boulevard Delmar, New York 12054
- U.S. Department of Transportation Federal Highway Administration Environmental Development Division Nassif Building, Room 3246 400 7th Street, S.W. Washington, D.C. 20590

Comments from interested groups and the public on the proposed Action Plan are invited. Comments should be sent to the FHWA Regional Office shown above before September 28, 1973.

Issued on August 30, 1973,

NORBERT T. TIEMANN, Federal Highway Administrator.

[FR Doc.73-18718 Filed 9-4-73;8:45 am]

National Highway Traffic Safety Administration

[Docket No. EX 73-8; Notice 1]

AVANTI MOTOR CORPORATION Petition for Temporary Exemption

Avanti Motor Corporation of South Bend, Indiana, has applied for temporary exemption of its Avanti II from portions of Standard No. 208 and Standard No. 215 on grounds of substantial economic hardship.

Avanti manufactures 100 to 125 passenger cars a year. It requests an exemption until January 1, 1974, from the seat belt interlock requirements of 49 CFR 571,208, Standard No. 208 (paragraph S4.1.2.3) and an exemption until September 1, 1976, from the bumper corner impact requirements of 49 CFR 571.215, Standard No. 215 (paragraph S5.2).

In support of its petition for a 4-month exemption from the interlock requirements Avanti states that the hardship is caused "by the mere fact that we do not have the 1974 required interlock system available, and will not be able to secure both the components and the electrical mechanism to operate those components before our 1974 model", scheduled for introduction January 1, 1974. The inter-lock option was published as an amendment to Standard No. 208 on February 24, 1972 (37 FR 3911). Avanti has been working on its system since January 1973, and intends to incorporate components from systems manufactured by General Motors, American Motors, Checker Motors, and Jim Robbins Seat Belt Co. Avanti does not explain why these components will not be available for its use as of September 1, 1973, the effective date of the interlock option. Forty vehicles are scheduled for production during the requested exemption period.

Avanti petitions for a 3-year exemption from Standard No. 215 on the basis of the need to liquidate \$93,345 of inventory of noncomplying parts, and to redesign and retool front and rear bumpers and fenders. It states that "studies and prototype work have been conducted over the past year" and it briefly describes modifications "which we are presently developing by hand for testing" that it hopes will meet the corner impact requirements. Avanti estimates that its existing tooling can be modified during the 3-year exemption period for \$38,000. Lead time on most steel components in small volume is estimated as 15 to 18 months, and the company states that it is difficult, owing to its small size, to find sources interested in producing a low volume of components to its specifications.

Avanti has submitted an itemized list of affected components in inventory showing unit cost, total cost, and estimated cost to modify existing tooling. It has also submitted financial information for the period August 1, 1964, to September 30, 1972. The company submits that its net worth at the end of fiscal year 1972 was \$303,587.09 and its net income after Federal income taxes \$23,235.50. The financial statements for the last 3 years were prepared without audit and the preparing certified public accountant expresses no opinion on them.

This notice of receipt of a petition for a temporary exemption is published in accordance with the NHTSA regulations on this subject (49 CFR 555.7), and does not represent any agency decision or other exercise of judgment concerning the merits of the petition.

Interested persons are invited to submit comments on the petition of Avanti described above. Comments should refer to the docket number and be submitted to: Docket Section, National Highway Traffic Safety Administration, Room 5221, 400 Seventh Street, S.W., Washington, D.C. 20590. It is requested but not required that five copies be submitted.

All comments received before the close of business on the comment closing date indicated below will be considered. The application and supporting materials, and all comments received, are available for examination in the docket

both before and after the closing date. Comments received after the closing date will also be filed and will be considered to the extent possible. Notice of disposition of the petition will be published in the Federal Register pursuant to the authority indicated below.

Comment closing date.—OCTOBER 5, 1973.

Proposed effective date.—Date of issuance of exemption.

(Sec. 3, Pub. L. 92-548, 86 Stat. 1159, 15 U.S.C. 1410; delegations of authority at 49 CFR 1.51 and 49 CFR 501.8.)

Issued on August 28, 1973.

ELWOOD T. DRIVER,
Acting Associate Administrator,
Motor Vehicle Programs.

[FR Doc.73-18728 Filed 9-4-73;8:45 am]

AMERICAN REVOLUTION BICENTENNIAL COMMISSION

HERITAGE '76 PROGRAM COMMITTEE Notice of Meeting

Notice is hereby given, pursuant to Executive Order 11671, that the following American Revolution Bicentennial Commission Heritage "76 Program Committee meeting will be held on September 19, 1973:

HERITAGE '76 PROGRAM COMMITTEE

The Heritage '76 Program Committee will hold an open meeting (with the exception of the closed portion of the meeting asterisked below) on September 19, 1973, at 740 Jackson Place, NW., Washington, D.C., at 10 a.m.

The Committee is composed of ten Commission members, three non-Commission members, and five Heritage "76 Advisory Panel Members. The agenda items to be discussed are:

Fiscal 1975 Heritage budget*.

Proposal for a guidebook to communities on the use of revenue sharing funds for historic preservation.

Review of the Bicentennial Proposal of the Advisory Council on Historic Preservation. Request for official recognition by Boston 200 for the 200th Anniversary of the Boston Tea Party.

Dated August 28, 1973.

Hugh A. Hall,
Acting Director, American Revolution Bicentennial Commission.

[FR Doc.73-18724 Filed 9-4-73;8:45 am]

CIVIL AERONAUTICS BOARD

[Docket No. 25772]

AERLINTE EIREANN TEORANTA

Postponement of Prehearing Conference and Hearing

In the matter of amendment of foreign air carrier permit service to Boston as intermediate point.

Notice is hereby given that a prehearing conference and hearing in the aboveentitled application, which was previously assigned to be held on September 11, 1973, is hereby postponed until

October 10, 1973, at 10 a.m. (local time), in Room 503, Universal Building, 1825 Connecticut Avenue NW., Washington, D.C., before Administrative Law Judge Ross I. Newmann.

Since it is contemplated that hearing in this proceeding may be held immediately following conclusion of the prehearing conference, any person objecting to this procedure should notify the Administrative Law Judge on or before October 5, 1973.

Dated at Washington, D.C., August 29, 1973.

[SEAL] ROSS I. NEWMANN,

Administrative Law Judge,

[FR Doc.73-18736 Filed 9-4-73;8:45 am]

[Docket No. 20724]

REMANDED ATLANTA-DETROIT/ CLEVELAND/CINCINNATI INVESTIGATION

Notice of Oral Argument

Notice is hereby given, pursuant to the provisions of the Federal Aviation Act of 1958, as amended, that oral argument in the above-entitled matter is assigned to be held before the Board on October 10, 1973, at 10:00 a.m. (local time), in Room 1027, Universal Building, 1825 Connecticut Avenue, NW., Washington, D.C.

Dated at Washington, D.C., August 29, 1973.

[SEAL] RALPH L. WISER, Chief Administrative Law Judge.

[FR Doc.73-18737 Filed 9-4-73;8:45 am]

ENVIRONMENTAL PROTECTION AGENCY

[FIFRA Docket Nos. 146 and 293; Reg. No. 218-586]

ALLIED CHEMICAL CORP.

Determination and Order

Under authority granted by the Federal Insecticide, Fungicide, and Rodenti-cide Act (FIFRA) (7 U.S.C. 135b(cl)), the Administrator of the Environmental Protection Agency on May 3, 1972, prohibited the aerial application of pesticides containing Mirex in coastal counties or parishes and on or near rivers, streams, lakes, ponds, and other aquatic areas (37 FR 10987). On June 30, 1972, the Administrator issued a Determination and Order (37 FR 13299) granting a stay of his May 3 prohibition with respect to aerial spraying of Hawaiian pineapple fields in the fall of 1972 to control mealybug wilt. The Administrator's stay was conditioned upon the implentation of a monitoring program approved by the Environmental Protection Agency.

Pending the completion of a public hearing on registrations of pesticides containing Mirex which this Agency has called pursuant to section 6(b) (2) of the FIFRA, as amended in 1972, the Acting Administrator of the Environmental Protection Agency issued a Determination and Order dated May 25, 1973, which extended through the 1973 spraying season the stay approved initially on

May 30, 1972. Again, however, the prohibition against aerial spraying was stayed only on condition that a monitoring program approved by this Agency would be conducted in conjunction with spraying.

In compliance with the Administrator's Order of June 30, 1972, a monitoring program was instituted to measure the effects of Mirex when used to control mealybug wilt in Hawaii. Since results of laboratory experiments and other information had indicated that Mirex is acutely toxic to certain species of aquatic blota, the monitoring program was aimed predominantly at marine biota found in waters adjacent to those islands on which Mirex was sprayed. On these islands there are no rivers or streams in which significant numbers of other aquatic biota can be found.

As reflected in the Administrator's Order of May 25, 1973, however, information gained from this monitoring program has consistently indicated that Mirex is not accumulating significantly in marine biota. I have therefore determined to modify the required monitoring program to reduce the number of samples taken in offshore waters and to require that additional samples be collected from terrestrial biota inhabiting the islands on which Mirex is sprayed. This will allow us to determine whether greater sampling in this area would indicate occurrence of any residues in inland species. Specifically, I will require that the following elements be included in a monitoring program to be implemented in conjunction with the fall 1973 spraying of Mirex in Hawaii:

1. Aquatic sampling to be limited to those organisms which were positive for Mirex in previous samples;

2. Monitoring to include at least one ter-restrial area of sufficient acreage (2,500-5,000 scres) to provide multiple sites where Mirex is likely to accumulate, i.e., ravines, water courses, (dry irrigation areas where soll or water movement occurs intermittently;

 Terrestrial monitoring to include soils, small mammals, and birds, with each of these groups yielding five samples for a total of fifteen per collection;

4. Baseline (prespraying) samples to be

collected for terrestrial species monitored;
5. Sampling collections to be made during the 1st, 4th, 12th, and 18th weeks after spraying, and also during the 24th and 36th weeks if samples containing any residues of Mirex are collected during the 12th and 18th weeks.

6. Monitoring areas, species to be sampled, and sampling and reporting methodology to be determined in conjunction with the Environmental Center and the Zoology Department of the University of Hawaii.

In thus revising the monitoring program, however, I do not wish to imply that the provisions of any order issued by this Agency are hereby extended to authorize spraying operations in Hawaii after the fall of 1973. Approval for further aerial spraying in Hawaii will be granted only if warranted by the results of monitoring done in coming months and by the record adduced at the impending public hearing on Mirex regis- subject to Board approval of individual trations.

CHARLES L. ELKINS. Acting Assistant Administrator for Hazardous Materials Control.

AUGUST 31, 1973.

[FR Doc.73-18864 Filed 9-4-73;8:45 am]

FEDERAL HOME LOAN BANK BOARD

[H. C. 162]

AMERICAN FINANCIAL CORP. UNITED DAIRY FARMERS INVESTMENT

Receipt of Application for Approval of Acquisition of Control of Evers Savings Association

AUGUST 30, 1973.

Notice is hereby given that the Federal Savings and Loan Insurance Corporation has received an application from the American Financial Corporation and the United Dairy Farmers Investment Company, Cincinnati, Ohio, savings and loan and bank holding companies, for approval of their acquisition of control of Evers Savings Association, Cincinnati. Ohio, an uninsured institution, under the provisions of section 408(e) of the National Housing Act, as amended (12 U.S.C. 1730a(e)), and § 584.4 of the Regulations for Savings and Loan Holding Companies, said acquisition to be effected by the exchange of cash for the stock of Evers Savings Association. Following the acquisition it has proposed that said association be merged into the Hunter Savings Association, an insured subsidiary of the applicants. Comments on the proposed acquisition should be submitted to the Director, Office of Examinations and Supervision, Federal Home Loan Bank Board, Washington, D.C. 20552, on or before October 5, 1973.

EUGENE M. HERRIN, [SEAL] Assistant Secretary. Federal Home Loan Bank Board. [FR Doc.73-18739 Filed 9-4-73;8:45 am]

FEDERAL RESERVE SYSTEM FROST BANK CORPORATION

Proposed Retention of Data Processing Center

Frost Bank Corporation of San Antonio, Texas, has applied, pursuant to § 4(c) (8) of the Bank Holding Company Act (12 U.S.C. 1843(c)(8)) and \$ 225.4 (b) (2) of the Board's Regulation Y, for permission to retain the assets of Data Processing Center, San Antonio, Texas, an operating division of a wholly owned subsidiary, Main Plaza Corporation in San Antonio, Texas. Notice of the application was published on July 26, 1973, in the San Antonio Light, a newspaper circulated in San Antonio, Texas.

Applicant states that the proposed subsidiary would perform the activities of data processing services of an accounting nature for banks and other enterprizes. Such activities have been specified by the Board in § 225.4(a) of Regulation Y as permissible for bank holding companies.

proposals in accordance with the procedures of § 225.4(b).

Interested persons may express their views on the question whether consummation of the proposal can "reasonably be expected to produce benefits to the public, such as greater convenience, increased competition, or gains in effi-ciency, that outweigh possible adverse effects, such as undue concentration of resources, decreased or unfair competition, conflicts of interests, or unsound banking practices." Any request for a hearing on this question should be accompanied by a statement summarizing the evidence the person requesting the hearing proposes to submit or to elicit at the hearing and a statement of the reasons why this matter should not be resolved without a hearing.

The application may be inspected at the offices of the Board of Governors or at the Federal Reserve Bank of Dallas.

Any views or requests for hearing should be submitted in writing and received by the Secretary, Board of Governors of the Federal Reserve System, Washington, D.C. 20551, not later than September 24, 1973.

Board of Governors of the Federal Reserve System, August 28, 1973.

THEODORE E. ALLISON. Assistant Secretary of the Board. [FR Doc.73-18677 Filed 9-4-73;8:45 am]

Federal Reserve Bank of New York MIDLANTIC BANKS, INC., NEWARK, **NEW JERSEY**

Order Approving Acquisition of Bank

Midlantic Banks, Inc., Newark, New Jersey, a bank holding company within the meaning of the Bank Holding Company Act, has applied for approval of the Board of Governors of the Federal Reserve System, under § 3(a) (3) of the Act (12 U.S.C. 1842(a) (3)), to acquire 100 percent of the voting shares (less directors' qualifying shares) of Midlantic National Bank of Somerset, Bernardsville, New Jersey (Bank), a proposed new bank.

Notice of the application, affording opportunity for interested persons to submit comments and views, has been given in accordance with § 3(b) of the Act. The time for filing comments and views has expired, and none has been received. The application has been considered in light of the factors set forth in § 3(c) of the Act (12 U.S.C. 1842(c)).

Applicant controls seven banks with aggregate deposits of \$1.4 billion,' representing 7.1 percent of total deposits in commercial banks in New Jersey, and is the third largest banking organization in the State. Inasmuch as Bank is a proposed new bank, the level of concentration of banking resources would not be immediately increased in any relevant

¹ Bank data are as of December 31, 1972.

Bank would be competing in the Plainfield banking market, which includes most of Somerset County, where Bank will be located, and small portions of Union and Middlesex Counties.

An office of one of Applicant's banking subsidiaries is located 9.2 miles northeast of Bernardsville in Madison, Morris County. The proposal is not likely to raise barriers to entry by other outside organizations because the Plainfield market is expected to remain attractive for further de novo entry, and a large number of independent banks are available as footholds for outtside organiza-While consummation of Applicant's proposal will introduce home office protection in Bernardsville, the town is already subject to branch office protection. In addition, legislation recently signed by the Governor of New Jersey would eliminate home office protection for subsidiaries of multi-bank holding companies in 1975. Accordingly, it is concluded that consummation of the proposed acquisition would not have any adverse effect on existing or potential competition in any relevant area.

The financial and managerial resources of Applicant and its subsidiary banks are satisfactory. Bank, as a proposed new bank, has no financial or operating history; however, its prospects as a subsidiary of Applicant are good and are consistent with approval. Considerations relating to the convenience and needs of the area to be served lend some weight toward approval, since Bank will constitute an additional source of full banking services.

It is the judgment of the Federal Reserve Bank of New York that the proposed acquisition would be in the public interest and that the application should be approved.

On the basis of the record, the application is approved for the reasons summarized above. The transaction shall not be consummated (a) before the thirtieth calendar day following the effective date of this order or (b) later than three months after that date, and (c) Midlantic National Bank of Somerset, Bernardsville, New Jersey, shall be opened for business not later than six months after the effective date of this order. Each of the periods described in (b) and (c) may be extended for good cause by the Board, or by the Federal Reserve Bank of New York pursuant to delegated authority.

By order of the Federal Reserve Bank of New York, acting for the Board of Governors of the Federal Reserve System pursuant to delegated authority, effective August 24, 1973.

FRED W. PIDERIT, Jr.,
Vice President,
Federal Reserve Bank of New York.
[FR Doc.73-18678 Filed 9-4-73;8:45 am]

GENERAL SERVICES ADMINISTRATION

CERTAIN INDUSTRY AND PROFESSIONAL ASSOCIATIONS

Notice of Meeting

The General Services Administration will conduct a meeting on September 6, 1973, for the purpose of obtaining views from industry and professional associations related to furnishing comments and recommendations on proposed Federal Procurement Regulations which might affect contractors.

The meeting is scheduled for Thursday, September 6, 1973, at the GSA Headquarters Building, 18th and F Streets NW., Washington, D.C., 9 a.m.-4 p.m., in the main Auditorium, First Floor, main entrance.

Because of space limitations, attendance is subject to advance acceptance. For additional information contact:

Harold E. Roach, Office of Procurement Management, GSA, Room 5116, 18th and F Streets NW., Washington, D.C. 20405, 202-343-7794.

Dated at Washington, D.C., on August 29, 1973.

TED TRIMMER, Associate Administrator.

[FR Doc.73-18721 Filed 9-4-73;8:45 am]

INTERIM COMPLIANCE PANEL (COAL MINE HEALTH AND SAFETY)

ASHLAND MINING CORP. AND SMITH AND STOVER COAL CO.

Opportunity for Public Hearing

Applications for Renewal Permits for Noncompliance with the Interim Mandatory Dust Standard (2.0 mg/m³) have been received as follows:

(1) ICP Docket No. 20015, Ashland Mining Corporation, Ashland No. 11B Mine, USBM ID No. 46 02132 0, Ashland, West Virginia, Section ID No. 001 (1st Left Section). (2) ICP Docket No. 20237, Smith & Stover

(2) ICP Docket No. 20237, Smith & Stover Coal Company, Hunter-Burma Slope Mine, USBM ID No. 46 01505 0, Whitby, West Virginia, Section ID No. 004-0 (1st. Right), Section ID No. 004-1 (1st Right).

In accordance with the provisions of section 202(b) (4) (30 U.S.C. 842(b) (4)) of the Federal Coal Mine Health and Safety Act of 1969 (83 Stat. 742, et seq., Public Law 91-173), notice is hereby given that requests for public hearing as to an application for renewal may be filed within 15 days after publication of this notice. Requests for public hearing must be filed in accordance with 30 CFR Part 505 (35 F.R. 11296, July 15, 1970), as amended, copies of which may be obtained from the Panel on request.

A copy of the application is available for inspection and requests for public hearing may be filed in the office of the Correspondence Control Officer, Interim

Compliance Panel, Room 800, 1730 K Street NW., Washington, D.C. 20006.

August 30, 1973.

George A. Hornbeck, Chairman, Interim Compliance Panel.

[FR Doc.73-18727 Filed 9-4-73;8:45 am]

NATIONAL ADVISORY COUNCIL ON THE EDUCATION OF DISADVAN-TAGED CHILDREN

BUDGET AND LEGISLATIVE MATTERS Notice of Meeting

Notice is hereby given, PL 92-463, that the next meeting of the National Advisory Council on the Education of Disadvantaged Children will be held at 1-7 p.m., September 6, 1973 and from 9 a.m., September 7, 1973, located at 425 Pennsylvania Building, 13th St. NW., Room 1012, Washington, D.C. 20004.

The National Advisory Council on the

The National Advisory Council on the Education of Disadvantaged Children is established under section 148 of the Elementary and Secondary Education Act (20 U.S.C. 2411) to advise the President and the Congress on the effectiveness of compensatory education to improve the educational attainment of Disadvantaged Children.

The meeting is called to discuss the budget for FY 1974 and to plan for the legislative calendar affecting education programs.

Because of limited space for the public meeting of September 6 and 7 all persons wishing to attend should call for reservations at Area Code 202/382-6945 by September 5, 1973.

Records shall be kept of all Council proceedings and shall be available for public inspection at the Office of the National Advisory Council on the Education of Disadvantaged Children, located in Room 1012, 425 13th St., NW., Washington, D.C. 20004.

Signed at Washington, D.C. on August 29, 1973.

ROBERTA LOVENHEIM, Executive Director.

[FR Doc.73-18877 Filed 9-4-73;8:45 am]

NATIONAL ENDOWMENT FOR THE HUMANITIES

SUMMER SEMINARS FOR COLLEGE TEACHERS PANEL

Notice of Meeting

AUGUST 30, 1973.

Pursuant to Public Law 92-463, the Federal Advisory Committee Act, notice is hereby given that a meeting of the Summer Seminars for College Teachers Panel will take place in Washington, D.C. on September 7.

The purpose of the meeting is to examine dossiers of individuals recommended to the Endowment in the field of English as possible seminar directors in the Summer Seminar program.

Based on section b (4) and (6) of 5 U.S.C. 552, the meeting will not be open to public participation. It is suggested that those desiring more specific information contact the Advisory Committee Management Officer Mr. John W. Jordan, 806 15th Street NW., Washington, D.C. 20506, or call Area Code 202-382-2031.

> JOHN W. JORDAN, Advisory Committee Management Officer.

[FR Doc.73-18746 Filed 9-4-73;8:45 am]

SUMMER SEMINARS FOR COLLEGE TEACHERS PANEL

Notice of Meeting

AUGUST 30, 1973.

Pursuant to Public Law 92-463, the Federal Advisory Committee Act, notice is hereby given that a meeting of the Summer Seminars for College Teachers Panel will take place in Washington, D.C., on September 10.

The purpose of the meeting is to examine dossiers of individuals recom-mended to the Endowment in the field of History as possible seminar directors in the Summer Seminar program.

Based on section b(4) and (6) of 5 U.S.C. 552, the meeting will not be open to public participation. It is suggested that those desiring more specific information contact the Advisory Committee Management Officer Mr. John W. Jordan, 806 15th Street NW., Washington, D.C. 20506, or call Area Code 202-382-2031.

JOHN W. JORDAN, Advisory Committee Management Officer.

[FR Doc.73-18747 Filed 9-4-73;8:45 am]

SUMMER SEMINARS FOR COLLEGE TEACHERS PANEL

Notice of Meeting

AUGUST 30, 1973.

Pursuant to Public Law 92-463, the Federal Advisory Committee Act, notice is hereby given that a meeting of the Summer Seminars for College Teachers Panel will take place in Washington. D.C., on September 14.

The purpose of the meeting is to examine dossiers of individuals recommended to the Endowment in the field of Philosophy as possible seminar directors in the Summer Seminar program.

Based on section b (4) and (6) of 5 U.S.C. 552, the meeting will not be open to public participation. It is suggested that those desiring more specific information contact the Advisory Committee Management Officer Mr. John W. Jordan, 806 15th Street NW., Washington, D.C. 20506, or call Area Code 202-382-2031.

JOHN W. JORDAN, Advisory Committee Management Officer.

[FR Doc.73-18748 Filed 9-4-73;8:45 am]

SECURITIES AND EXCHANGE COMMISSION

[70-5340]

ALLEGHENY POWER SYSTEMS, INC., ET AL.

Acquisitions of Common Stock and Certain Properties; Retirement of Common Stock; Restatement of Incorporation; Designation of Holding Companies

AUGUST 27, 1973.

In the matter of Allegheny Power System, Inc., 320 Park Avenue, New York, New York 10022; Monongahela Power Co., 1310 Fairmont Avenue, Fairmont, West Virginia 26554; The Potomac Edison Co., Downsville Pike, Hagerstown, Maryland 21740; The Potomac Edison Company of Virginia, Rt. 11 South, Kernstown, Virginia 22601; The Potomac Edison Company of West Virginia, 901 Wilson Street, Martinsburg, West Virginia 25401; The Potomac Edison Company of Pennsylvania, N. Grant Street Extension, Waynesboro, Pennsylvania 17268; Monterey Utilities Corp., Monongahela Power Company Building. Fairmont, West Virginia 26554.

Notice is hereby given that Allegheny Power System, Inc. (APS), a registered holding company, its subsidiary electric utility and registered holding companies, Monongahela Power Company (Monongahela) and The Potomac Edison Company (PE), PE's subsidiary electric utility companies, The Potomac Edison Company of Virginia (PE Va.), The Potomac Edison Company of West Virginia (PE W. Va.) and The Potomac Edison Company of Pennsylvania (PE Pa.) and Monongahela's electric utility subsidiary company, Monterey Utilities Corporation (Monterey), have filed an application-declaration and amendments thereto with this Commission designating Sections 5(d), 9, 10, and 12 of the Public Utility Holding Company Act of 1935 (Act) as applicable to the proposed transactions. All interested persons are referred to the application-declaration. as amended, which is summarized below. for a complete statement of the proposed transactions.

APS proposes to simplify its corporate structure through the following steps: (i) PE Va. will acquire Monterey's common stock for cash equal to the stock's underlying book value; (ii) Monterey, PE Va., PE W. Va. and PE Pa. will merge into PE; and (iii) PE will acquire the Maryland public utility properties (Maryland properties) of Monongahela for cash equal to the Maryland properties' original cost depreciated.

In effecting the merger, PE will retain its Maryland incorporation and will also become incorporated in Virginia to assure its qualification to operate as a public utility company in that state. PE will remain qualified to do business and qualify to do business as a foreign public utility in West Virginia and Pennsylvania. Monongahela will cease operations in Maryland.

The Maryland properties and the Monterey stock will be released from the Indenture dated August 1, 1945, as sup-

plemented, between Monongahela and First National City Bank, as Trustee. Upon their acquisition by PE, the Maryland properties and the Monterey properties will become subject to the lien of the Indenture dated as of October 1, 1944. as supplemented, between PE and Chemical Bank, as Trustee (PE Indenture) The stocks of PE Va., PE W. Va., and PE Pa. are now subject to the lien of the PE Indenture. If the proposed transactions are effected, the stocks of the aforesaid PE subsidiaries will be retired and the properties of each of those subsidiaries will become subject to the lien of the PE Indenture. The cash received by Monongahela as consideration for the sale of the Maryland properties and the Monterey stock will be deposited with the Trustee under the Monongahela Indenture, subject to withdrawal as provided in that Indenture. It is stated that the proposed transactions will have no effect on the holders of the preferred stock or first mortgage bonds of PE or Monongahela.

It is proposed that PE amend and restate its Certificate of Incorporation without any change in the substance thereof. It is also proposed that PE's charter, as amended and restated, be the charter of the surviving PE company. It is stated that, subject to the consent of the state regulatory commissions having jurisdiction, the rates of PE Va., PE W. Va., PE Pa., and Monterey will be adopted by PE and there will be no effect on rates applicable to service to the customers of these companies. It is proposed that PE will, subject to the approval of the regulatory commission having jurisdiction, adopt the rates of Monongahela presently in effect for customers of the

Maryland properties.

Monterey presently serves its customers with power purchased entirely from Monongahela, After the merger, PE would provide service to these former Monterey customers, purchasing the necessary power from Monongahela. Monongahela would also provide at cost other services requested by PE in connection with the Monterey properties, PE, PE Va., PE W. Va., and PE Pa. are presently parties to a Power Supply Agreement (agreement) with the Federal Power Commission. Upon implementation of the merger, applicants-declarants state that the agreement will be withdrawn and PE will provide all of the electric energy necessary to serve its customers.

Applicants-declarants request that upon consummation of the proposed transactions, a further order be issued declaring that Monongahela and PE have each ceased to be holding companies under the Act and that their registrations under the Act are no longer in effect.

Fees and expenses to be incurred in connection with the proposed transactions are to be supplied by amendment. The application-declaration states that the proposed transactions require the authorization of the State Corporation Commission of Virginia, the Public Service Commission of West Virginia, the Maryland Public Service Commission and the Public Utility Commission of Pennsylvania. The Federal Power Commission is stated to have jurisdiction over certain rate aspects of the proposed transactions, and the application-declaration states that no other state or federal commission, other than this Commission, has jurisdiction over the proposed transactions.

Notice is further given, that any interested person may, not later than September 20, 1973, request in writing that a hearing be held with respect to the proposed transactions, stating the nature of his interest, the reasons for such request, and the issues of fact or law raised by said application-declaration, as amended, which he desires to controvert; or he may request that he be notified if the Commission should order a hearing thereon. Any such request should be addressed: Secretary, Securities and Exchange Commission, Washington, D.C. 20549. A copy of such request should be served personally or by mail (air mail if the person being served is located more than 500 miles from the point of mailing) upon the applicants-declarants at the above-stated addresses, and proof of service (by affidavit or, in case of an attorney at law, by certificate) should be filed with the request. At any time after such date, the application-declaration, as amended and as it may be further amended, may be permitted to become effective as provided in Rule 23 of the General Rules and Regulations promulgated under the Act, or the Commission may grant exemption from such rules as provided in Rules 20(a) and 100 thereof or take such other action as it may deem appropriate. Persons who request a hearing or advice as to whether a hearing is ordered will receive notice of further developments in this matter, including the date of the hearing (if ordered) and any postponements thereof.

For the Commission, by the Division of Corporate Regulation, pursuant to delegated authority.

[SEAL] GEORGE A. FITZSIMMONS, Secretary.

[FR Doc.73-18688 Filed 9-4-73;8:45 am]

[70-5381]

CENTRAL POWER AND LIGHT CO.

Notice of Proposed Issue and Sale of First Mortgage Bonds at Competitive Bidding

AUGUST 28, 1973.

Notice is hereby given that Central Power and Light Company (CP&L), 120 North Chaparral Street, Corpus Christi, Texas 78403, an electric utility subsidiary company of Central and South West Corporation (Central), a registered holding company, has filed a declaration with this Commission pursuant to the Public Utility Holding Company Act of 1935 (Act), designating sections 6(a) and 7 of the Act and Rule 50 promulgated thereunder as applicable to the proposed transaction. All interested persons are referred to the declaration, which is summarized below, for a complete statement of the proposed transaction.

NOTICES

CP&L proposes to issue and sell, subject to the competitive bidding requirements of Rule 50 under the Act, \$46,-000,000 principal amount of First Mortgage Bonds, Series M, to be dated October 1, 1973, and to mature October 1, 2003 (the "Bonds"). The interest rate (which will be a multiple of 1/8 of 1 percent) and the price (which will be not less than 99 percent nor more than 102.75 percent of the principal amount of the Bonds, exclusive of the accrued interest to be added to such price) will be determined by competitive bidding. The Bonds will be issued under and secured by CP&L's Indenture of Mortgage or Deed of Trust, dated November 1, 1943, to the First National Bank of Chicago and Robert L. Grinnell, as Trustees, as amended by the indentures supplemental thereto heretofore executed (the "Mortgage"), and to be further amended by a Supplemental Indenture to be dated October 1, 1973, which contains a prohibition until October 1, 1978, against refunding the issue with the proceeds of funds borrowed at a lower effective interest cost.

The proceeds to be derived by CP&L from the sale of the Bonds (exclusive of accrued interest and after deducting expenses of issue) will be used to retire at maturity its First Mortgage Bonds, Series A, 31/2 percent, due November 1, 1973, in the principal amount of \$22,435,000, and to finance a part of the costs of additions, extensions, betterments and improvements made and to be made to its electric utility properties, including the payment of approximately \$9,700,000 of short-term notes incurred or expected to be incurred by the Company in connection with the interim financing of its construction expenditures. The proposed construction expenditures of the Company for the last two quarters of 1973 are \$43,210,000 and for the calendar year 1974 are \$102,410,000. The Bonds will be authenticated under the Mortgage against \$76,666,667 of the available unused net expenditures for bondable property of the Company, which expenditures aggregated approximately \$120,100,000 at June 30, 1973.

The fees and expenses to be paid by CP&L in connection with the issue and sale of the Bonds are estimated to total \$85,000, including legal fees of \$15,000. The fees and expenses of legal counsel for the successful bidders, to be paid by the successful bidders, are estimated at \$10,500 and \$1,250 respectively. It is stated that no state commission and no federal commission, other than this Commission, has jurisdiction over the proposed transaction.

Notice is further given that any interested person may not later than September 24, 1973, request in writing that a hearing be held on such matter, stating the nature of his interest, the reasons for such request, and the issues of fact or law raised by said declaration which he desires to controvert; or he may request that he be notified if the Commission should order a hearing thereon. Any such request should be addressed: Secretary, Securities and Exchange Commission, Washington, D.C. 20549. A copy

of such request should be served personally or by mail (air mail if the person being served is located more than 500 miles from the point of mailing) upon the declarant at the above-stated address, and proof of service (by affidavit or, in case of an attorney at law, by certificate) should be filed with the request. At any time after said date, the declaration, as filed or as it may be amended, may be permitted to become effective as provided in Rule 23 of the General Rules and Regulations promulgated under the Act, or the Commission may grant exemption from such rules as provided in Rules 20(a) and 100 thereof or take such other action as it may deem appropriate. Persons who request a hearing or advice as to whether a hearing is ordered, will receive notice of further developments in this matter, including the date of the hearing (if ordered) and any postponements thereof.

For the Commission, by the Division of Corporate Regulation, pursuant to delegated authority.

[SEAL] GEORGE A. FITZSIMMONS, Secretary.

[FR Doc.73-18689 Filed 9-4-73;8:45 am]

[70-5378]

CONNECTICUT GAS CO. AND CONNECTICUT LIGHT & POWER CO.

Notice of Proposed Issue and Sale of Long-Term Notes

Notice is hereby given that The Connecticut Light and Power Company (CL&P), P.O. Box 2010, Hartford, Connecticut 06101, an exempt holding company and an electric and gas utility subsidiary of Northeast Utilities (Northeast), a registered holding company, and The Connecticut Gas Company (Connecticut Gas), a wholly owned gas utility subsidiary of CL&P, have filed a joint application-declaration and amendment thereto with this Commission pursuant to the Public Utility Holding Company Act of 1935 (Act), designating sections 6, 7, 9, 10, 12(b), and 12(f) of the Act and Rules 43, 45(b) (1), and 50(a) (3) promulgated thereunder as applicable to the following proposed transactions. All interested persons are referred to the amended joint application-declaration, which is summarized below, for a complete statement of the proposed transactions.

Connecticut Gas presently has outstanding demand notes aggregating \$425,000 which were issued to and acquired by CL&P before Northeast became a registered holding company. In addition, \$940,000 of long-term notes have been issued to and acquired by CL&P pursuant to orders of the Commission. Connecticut Gas presently has authority to issue and sell, and CL&P has authority to acquire, an additional \$235,000 of longterm notes pursuant to order of the Commission (Holding Company Act Release No. 17098). Connecticut Gas now proposes to issue and sell, and CL&P proposes to acquire, from time to time, up to an additional \$500,000 of long-term

notes (Notes) to meet its capital requirements. It is stated that the aggregate amount of all notes at any one time outstanding, including the outstanding demand and long-term notes and the \$235,000 of authorized but unissued long-term notes and the Notes proposed to be issued hereunder, will at no time exceed \$2,100,000. The funds derived from the issue and sale of the Notes will be applied towards the 1973 construction program of Connecticut Gas estimated to cost \$446,000.

The Notes will mature ten years from the date the first such Note is issued, will bear interest at a rate equal to the commercial bank prime rate for short-term loans in effect from time to time in Hartford, Connecticut (adjusted as of the date of announcement of any change in such rate) and may be repaid at any time without premium.

CL&P and the Hartford Electric Company (HELCO), an electric and gas utility subsidiary of Northeast, have announced their intention to dispose of all their gas properties.1 It is stated that as of May 7, 1973, the Companies commenced furnishing prospective purchasers with financial and operating information relative to the proposed disposition of the gas properties. Upon completion of the information-gathering process by the prospective purchasers, the Companies expect to commence detailed negotiations with each of the prospective purchasers concerning specific proposals for the acquisition of all or a portion of the gas properties.

It is stated that the Connecticut Public Utilities Commission has jurisdiction over the proposed transactions. The order of that Commission will be filed by amendment. No other State commission or Federal commission, other than this Commission, has jurisdiction over the proposed transactions. There are no fees or commission to be paid or incurred, directly or indirectly, in connection with the proposed transactions, Incidental services estimated to cost \$500 will be performed at cost by Northeast Utilities Service Company, an affiliated service company.

Notice is further given that any interested person may, not later than September 20, 1973, request in writing that a hearing be held on such matter, stating the nature of his interest, the reasons for such request, and the issues of fact or law raised by said joint application-declaration, as amended, which he desires to controvert; or he may request that he be notified if the Commission should order a hearing thereon. Any such request should be addressed: Secretary, Securities and Exchange Commission, Washington, D.C. 20549. A copy of such request should be served personally or by mail (air mail if the person being served is located more than 500

miles from the point of mailing) upon the applicants-declarants at the above stated address; and proof of service (by affidavit, or, in case of an attorney at law, by certificate) should be filed with the request. At any time after said date, the joint application-declaration, as amended or as it may be further amended, may be granted and permitted to become effective as provided in Rule 23 of the General Rules and Regulations promulgated under the Act, or the Commission may grant exemption from such rules as provided in Rules 20(a) and 100 thereof or take such other action as it may deem appropriate. Persons who request a hearing or advice as to whether a hearing is ordered will receive notice of further developments in this matter, including the date of the hearing (if and any ordered) postponements thereof.

For the Commission, by the Division of Corporate Regulation, pursuant to delegated authority.

[SEAL] GEORGE A. FITZSIMMONS, Secretary. [FR. Doc.73-18690 Filed 9-4-73:8:45 am]

[File No. 500-1]

CONTINENTAL VENDING MACHINE CORP. Order Suspending Trading

AUGUST 27, 1973.

It appearing to the Securities and Exchange Commission that the summary suspension of trading in the common stock, 10¢ par value, of Continental Vending Machine Corporation, and the 6 percent convertible subordinated debentures due September 1, 1976 being traded otherwise than on a national securities exchange is required in the public interest and for the protection of investors:

It is ordered, Pursuant to section 15(c) (5) of the Securities Exchange Act of 1934, that trading in such securities otherwise than on a national securities exchange be summarily suspended, this order to be effective for the period August 28, 1973, through September 6, 1973.

By the Commission.

[SEAL] GEORGE A. FITZSIMMONS, Secretary.

[FR Doc.73-18686 Filed 9-4-73;8:45 am]

[File No. 500-1]

HOME-STAKE PRODUCTION CO.

Order Suspending Trading

AUGUST 27, 1973.

It appearing to the Securities and Exchange Commission that the summary suspension of trading in the common stock, \$2.50 par value, and all other securities of Home-Stake Production Company being traded otherwise than on a national securities exchange is required in the public interest and for the protection of investors;

It is ordered, Pursuant to section 15(c) (5) of the Securities Exchange Act of 1934, that trading in such securities

otherwise than on a national securities exchange be summarily suspended, this order to be effective for the period from August 28, 1973, through September 6, 1973.

By the Commission.

[SEAL] GEORGE A. FITZSIMMONS, Secretary.

[FR Doc.73-18687 Filed 9-4-73;8:45 am]

[812-3492]

NEUWIRTH FUND, INC., ET AL. Notice of Filing of Application for Exemption

AUGUST 28, 1973.

In the matter of NEUWIRTH FUND, INC., NEUWIRTH CENTURY FUND, INC., NEUWIRTH INCOME DEVELOP-MENT CORPORATION, NEUWIRTH MANAGEMENT AND RESEARCH CORPORATION, NEUWIRTH FINANCIAL CORPORATION, Middletown Bank Building, Middletown, New Jersey 07748

(812-3492), Notice is hereby given that an application has been filed pursuant to section 6(c) of the Investment Company Act of 1940 (Act) by Neuwirth Fund, Inc. (Neuwirth Fund), Neuwirth Century Fund, Inc. (Century), Neuwirth Income Development Corporation (NIDCO) (collectively the "Funds"), registered under the Act as open-end management investment companies, and Neuwirth Manageand Research Corporation (NMRC), investment adviser to Neuwirth Fund and Century, and Neuwirth Financial Corporation (NFC), investment adviser to NIDCO. The application requests an order of the Commission. in connection with the rendering of advisory services by NMRC to Neuwirth Fund and Century, and by NFC to NID-CO, (1) exempting applicants from sections 45(a) and 15(c) of the Act during the period from July 28 to July 31, 1973. and (2) exempting the applicants from section 15(a) of the Act during the period from August 1 to October 31, 1973. All interested persons are referred to the application on file with the Commission for a statement of the representations contained therein, which are summarized below.

On July 28, 1973, Henry Neuwirth, the controlling stockholder of NMRC and NFC, died unexpectedly. By operation of law the voting securities of NMRC and NFC owned by Neuwirth passed to his estate. As of that date the investment advisory contracts between the Funds and NMRC and NFC automatically terminated pursuant to a contract provision, as required by section 15 of the Act, providing for termination in the event of assignment. An assignment is defined by section 2(a) (4) of the Act to be any direct or indirect transfer of a controlling block of the outstanding voting securities of the assignor by a security holder of the assignor.

On July 31, 1973, a joint meeting of the Boards of Directors of the Funds was held to consider the problems arising from Neuwirth's death. At that meeting, the directors, all of whom serve on the

¹ By order dated March 7, 1973 (Holding Company Act Release No. 17905), the Commission granted CL&P's application for an exception from the competitive bidding requirements of Rule 50 with respect to its proposed sale of the outstanding securities of Connecticut Gas.

Boards of each of the Funds voted as follows: (a) to ratify the performance of NMRC under the investment advisory contracts with Neuwirth Fund and Century, and the performance of NFC under the investment advisory contract with NIDCO, for the period from July 28 to July 31, 1973; and (b) to readopt each of the investment advisory contracts for the period from August 1 to October 31, 1973, subject to sooner immediate termination upon written notice by the Board of Directors or by a majority of the outstanding voting securities of each of the Funds. It is represented that such action was necessary in order to provide for continued management of the Funds pending final decision by the shareholders of the respective Funds on the future management of the Funds.

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Section 15(a) of the Act provides, among other things, that it shall be unlawful for any person to serve or act as an investment adviser of a registered investment company except pursuant to a written contract which has been approved by the vote of a majority of the outstanding voting securities of such registered investment company.

Section 15(c) of the Act provides, among other things, that it is unlawful for any registered investment company having a board of directors to enter into, renew, or perform any investment advisory or underwriting contract unless the terms of the contract and any renewal thereof are approved by the vote of a majority of the directors who are not parties to such contract or interested persons of any such party cast in person at a meeting called for the purpose of voting on such approval.

Section 6(c) of the Act provides that the Commission, by order upon application, may conditionally or unconditionally exempt any person or transaction from any provision of the Act or of any rule or regulation thereunder, if and to the extent that such exemption is necessary or appropriate in the public interest and consistent with the protection of investors and the purposes fairly intended by the policy and provisions of the Act. Applicants submit that the requested exemptions from section 15(a) and 15(c) of the Act are in the public interest and consistent with the general policies of the Act.

Notice is further given, that any interested person may, not later than September 17, 1973, at 5:30 p.m., submit to the Commission in writing a request for a hearing on the matter accompanied by a statement as to the nature of his interest, the reason for such request, and the issues, if any of fact or law proposed to be controverted, or he may request that he be notified if the Commission shall order a hearing thereon. Any such communication should be addressed: Secretary, Securities and Exchange Commission, Washington, D.C. 20549. A copy of such request shall be served personally or by mail (air mail if the person being served is located more than 500 miles from the point of mailing) upon applicants at the address stated above. Proof of such service (by affidavit, or in

the case of an attorney-at-law, by certificate) shall be filed contemporaneously with the request. At any time after said date, as provided by Rule 0-5 of the Rules and Regulations promulgated under the Act, an order disposing of the application herein may be issued by the Commission upon the basis of the information stated in said application, unless an order for hearing upon said application shall be issued upon request or upon the Commission's own motion, Persons who request a hearing, or advice as to whether a hearing is ordered, will receive notice of further developments in the matter, including the date of the hearing (if ordered) and any postponements thereof.

For the Commission, by the Division of Investment Management Regulation, pursuant to delegated authority.

[SEAL] GEORGE A. FITZSIMMONS, Secretary.

[FR Doc.73-18691 Filed 9-4-73;8:45 am]

[811-2212]

REDWOOD FUND, INC. Notice of Proposal Registration

AUGUST 28, 1973.

Notice is hereby given that the Commission proposes, pursuant to section 8 (f) of the Investment Company Act of 1940 (Act), to declare by order upon its own motion that Redwood Fund, Inc. (Redwood) (formerly Evergreen Fund, Inc.), 1901 Avenue of the Stars, Los Angeles, California 90067, a corporation organized under the laws of the State of California and registered under the Act as an open-end, non-diversified management investment company, has ceased to be an investment company.

Redwood was initially organized in California on June 2, 1971, under the name of El Dorado Fund, Inc. (El Dorado). On June 16, 1971, El Dorado changed its name to Evergreen Fund, Inc. (Evergreen), and on July 20, 1971, Evergreen registered under the Act by filing a Form N-8A Notification of Registration together with a Form N-8B-1 Registration Statement. On July 21, 1971, Evergreen filed a Form S-5 Registration Statement under the Securities Act of 1933 (1933 Act).

On August 23, 1971, Evergreen changed its name to Redwood, and on September 3, 1971 Redwood filed an amended Form N-8B-1 Registration Statement under the Act and a Pre-effective Amendment to the 1933 Act registration statement.

Fund has never conducted any business operations other than initial organizational activities; its registration statement under the Securities Act of 1933 never became effective and was declared abandoned on July 20, 1973; and it has abandoned any intention of making a public offering of its shares.

Section 8(f) of the Act provides, in pertinent part, that when the Commission, on its own motion, finds that a registered investment company has ceased

to be an investment company, it shall so declare by order, and upon the effectiveness of such order, which may be issued upon the Commission's own motion where appropriate, the registration of such company shall cease to be in effect.

Notice is further given that any interested person may, not later than September 21, 1973, at 5:30 p.m., submit to the Commission in writing a request for a hearing on the matter accompanied by a statement as to the nature of his interest, the reasons for such request, and the issues of fact or law proposed to be controverted, or he may request that he be notified if the Commission should order a hearing thereon. Any such communications should be addressed: Secretary, Securities and Exchange Commission, Washington, D.C. 20549, A copy of such request shall be served personally or by mail (air mail if the person being served is located more than 500 miles from the point of mailing) upon the Fund at the address stated above, Proof of service (by affidavit, or in case of an attorney-at-law, by certificate) shall be filed contemporaneously with the request. At any time after said date, as provided by Rule 0-5 of the Rules and Regulations promulgated under the Act, an order disposing of the matter herein may be issued by the Commission upon the basis of the information stated herein, unless an order for a hearing shall be issued upon request or upon the Commission's own motion. Persons who request a hearing or advice as to whether a hearing is ordered will receive notice of further developments in this matter, including the date of the hearing (if ordered) and any postponements thereof.

For the Commission, by the Division of Investment Management Regulation, pursuant to delegated authority.

[SEAL] GEORGE A. FITZSIMMONS, Secretary,

[FR Doc.73-18692 Filed 9-4-73;8:45 am]

SMALL BUSINESS ADMINISTRATION

[License Application 09/09-5165]

RISK CAPITAL FUNDING, INC.

Application for License as a Small Business Investment Company

An application for a license to operate as a small business investment company under the provisions of section 301 (d) of the Small Business Investment Act of 1958, as amended (15 U.S.C. 661 et seq.), has been filed by Risk Capital Funding, Inc. (applicant), with the Small Business Administration (SBA) pursuant to 13 CFR 107.102 (1973).

The officers and directors of the applicant are as follows:

William L. Mitchell, President, General Manager, Director, 8787 Shoreham Drive, West Hollywood, California 90069.

Elaine Blaine Shepard, Secretary, Director, 1217 Oakhorne Drive, Harbor City, California 90710.

Celestus A. King III, Secretary Director, 1240
Arlington Avenue, Los Angeles, California
90019.

Phyliss Anne Stones, Treasurer, Director, 15737 Royal Ridge Road, Sherman Oaks, California 90513.

Owen W. Findley, Director, 3800 Twin Oaks Way, Oakland, California 94605.

The applicant, a California corporation, with its principal place of business at 16055 Ventura Boulevard, Encino, California 91316, will begin operations with \$155,000 of paid-in capital consisting of 155,000 shares of common stock sold to Phylliss Stones (51.61 percent), Elaine Shepard (16.13 percent), Celestus King (16.13 percent), and Owen Findley (16.13 percent).

Applicant will not concentrate its investments in any particular industry. As an applicant for a license pursuant to section 301(d) of the Small Business Investment Act of 1958, as amended, its investments will be made solely in small business concerns which will contribute to a well-balanced national economy by facilitating ownership in such concerns by persons whose participation in the free enterprise system is hampered because of social or economic disadvantages.

Matters involved in SBA's consideration of the applicant include the general business reputation and character of the proposed owners and management, and the probability of successful operation of the applicant under their management including adequate profitability and financial soundness, in accordance with the Small Business Investment Act and the SBA rules and regulations.

Any person may, not later than September 20, 1973, submit to SBA written comments on the proposed licensee. Any such communication should be addressed to the Deputy Associate Administrator for Investment, Small Business Administration, 1441 L Street NW., Washington, D.C. 20416.

A copy of this notice shall be published in a newspaper of general circulation in Encino, California.

Dated August 31, 1973.

James Thomas Phelan.

Deputy Associate Administrator
for Investment.

[FR Doc.73-18865 Filed 9-4-73;8:45 am]

TARIFF COMMISSION

[TEA-I-EX-9]

TERMINATION OF INCREASED TARIFFS ON CERTAIN PIANOS

Notice of Investigation and Hearing

Investigation instituted.—On August 28, 1973, the United States Tariff Commission, upon a petition filed on behalf of the National Piano Manufacturers Association, instituted an investigation in connection with the preparation of advice to the President, pursuant to section 351(d)(3) of the Trade Expansion Act of 1962, with respect to planos (including player pianos, whether or not with keyboards), except grand pianos, of the kinds described in item 924.00 in part 2A of the Appendix to the Tariff Schedules of the United States.

An increased rate of duty was imposed by Presidential proclamation upon imports of the above described pianos in 1970 following an industry investigation by the Tariff Commission under section 301(b)(1) of the Trade Expansion Act of 1962. Under the proclamation the increased rate remained in force for a period of three years. The Commission conducted an investigation in 1973 under section 351(d)(3) and, upon receiving its advice, the President extended the increased rate on the subject pianos until the close of business February 20, 1974.

The Commission's function under section 351(d)(3) is to advise the President of its judgment as to the probable economic effect that a termination of this rate would have on the industry concerned.

Public hearing ordered.—A public hearing in connection with this investigation will be held at 10:00 a.m. e.s.t. on October 30, 1973, in the hearing room, Tariff Commission Building, 8th and E Streets NW., Washington, D.C. Appearances at the hearing should be entered in accordance with § 201.13 of the Tariff Commission's Rules of Practice and Procedure.

Inspection of petition.—The petition filed in this case is available for inspection at the office of the Secretary, United States Tariff Commission, 8th and E Streets NW., Washington, D.C., and at the New York City office of the Tariff Commission located in room 437 of the Customhouse.

Issued: August 29, 1973.

By order of the Commission.

[SEAL] KENNETH R. MASON,

Secretary.

[FR Doc.73-18701 Filed 9-4-73;8:45 am]

[22-35]

NONFAT DRY MILK

Notice of Investigation and Hearing

At the request of the President (reproduced herein), the United States Tariff Commission, on the 29th day of August 1973, instituted an investigation under subsection (d) of section 22 of the Agricultural Adjustment Act, as amended (7 U.S.C. 624), to determine whether 100,000,000 pounds of nonfat dry milk described in item 115.50 of the Tariff Schedules of the United States (TSUS) may be imported into the United States during the period beginning August 29, 1973, and ending October 31, 1973, in addition to the quota-quantity specified for such article under TSUS item 950.02. without rendering or tending to render ineffective, or materially interfering with, the price support program now conducted by the Department of Agriculture for milk, or reducing substantially the amount of products processed in the United States from domestic

The text of the President's letter of August 28, 1973, to the Commission follows:

Pursuant to Section 22 of the Agricultural Adjustment Act, as amended, I have been advised by the Secretary of Agriculture, and I agree with him, that there is reason to believe that additional supplies of nonfat dried milk may be imported during a temporary period ending October 31, 1973, without rendering or tending to render ineffective, or materially interfering with, the price support program for milk now conducted by the Department of Agriculture, or reducing substantially the amount of products processed in the United States from domestic milk.

Specifically, reference is made to the following article presently subject to Section 22 quantitative limitations under item 950.02 of the Tariff Schedules of the United States:

Dried milk, provided for in part 4 of schedule 1 of the Tariff Schedules of the United States Annotated (1972), described in item 115.50 (Dried milk, other than buttermilk, containing not over 3 percent of butter-

The Secretary has also advised me, pursuant to Section 22(b) of the Agricultural Adjustment Act, as amended, that a condition exists requiring emergency treatment with respect to nonfat dried milk and has, therefore, recommended that I take immediate action under Section 22(b) to authorize the importation of 100,000,000 pounds during a temporary period ending October 31, 1973. I have, therefore, this day issued a proclamation establishing a special temporary quota of 100,000,000 pounds to be effective through October 31, 1973. This quota is in addition to the quantities otherwise authorized to be imported under Section 22 quantitative limitations.

The United States Tariff Commission is, therefore, directed to make an investigation under Section 22 of the Agricultural Adjustment Act, as amended, and to make findings and recommendations as to whether 100,000,000 pounds of the above-described article may be imported during a temporary period ending October 31, 1973, in addition to the quantities otherwise authorized to be imported under Section 22 quantitative limitations, without rendering or tending to render ineffective, or materially interfering with, the price support program now conducted by the Department of Agriculture for milk, or reducing substantially the amount of products processed in the United States from domestic milk.

The Commission is directed to report its findings and recommendations at the earliest practicable date.

Sincerely.

(Signed) RICHARD NIXON.

Hearing .- A public hearing in connection with this investigation will be held in the Tariff Commission's Hearing Room, Tariff Commission Building, 8th and E Streets NW., Washington, D.C., beginning at 9:30 a.m., e.d.t., on September 10, 1973. All parties will be given opportunity to be present, to produce evidence, and to be heard at such hearing. Interested parties desiring to appear at the public hearing should notify the Secretary of the Tariff Commission, in writing, at its offices in Washington, D.C., at least by the close of business on September 7, 1973. The notification should indicate the name, address, telephone number, and organization of the person filing the request, and the name and organization of the witnesses who will

Because of the limited time available, the Commission reserves the right to limit the time assigned to witnesses. Questioning of witnesses will be limited to members of the Commission and officials of the Department of Agriculture.

Written submissions .- Interested parties may submit written statements of information and views, in lieu of their appearance at the public hearing, or they may supplement their oral testimony by written statements of any desired length. In order to be assured of consideration, all written statements should be submitted at the earliest practicable date, but not later than the close of business on September 14, 1973.

With respect to any of the aforementioned written submissions, interested parties should furnish a signed original and nineteen (19) true copies, Business data to be treated as business confidential shall be submitted on separate sheets, each clearly marked at the top "Business Confidential", as provided for in § 201.6 of the Commission's rules of practice and procedure.

Issued: August 29, 1973.

By order of the Commission.

KENNETH R. MASON,

Secretary.

[FR Doc.73-18700 Filed 9-4-73;8:45 am]

VETERANS ADMINISTRATION

MERIT REVIEW BOARDS IN DESIGNATED MEDICAL SPECIALTIES

Establishment of Boards

Pursuant to the Federal Advisory Committee Act (Public Law 92-463), the Veterans Administration has determined that the establishment of the following Merit Review Boards (in designated medical specialties) is in the public interest in connection with the performance of duties imposed on the Veterans Administration by law:

Merit Review Board for Alcoholism and De-

pendence Programs Merit Review Board for Basic Science Programs

Merit Review Board for Behavioral Science

Merit Review Board for Cardiovascular Pro-

Merit Review Board for Endocrinology Programs

Merit Review Board for Gastroenterology Pro-

Merit Review Board for Hematology Programs Merit Review Board for Immunology Programs

Merit Review Board for Infectious Disease Programs

Merit Review Board for Nephrology Programs Merit Review Board for Neurobiology Pro-

Merit Review Board for Oncology Programs Merit Review Board for Oral Biology Pro-

Merit Review Board for Respiration Programs Merit Review Board for Surgery Programs

Signed at Washington, D.C., this 29th day of August 1973.

DONALD E. JOHNSON, Administrator.

[FR Doc.73-18716 Filed 9-4-73;8:45 am]

DEPARTMENT OF LABOR

Wage and Hour Division

CERTIFICATES AUTHORIZING THE EM-PLOYMENT OF FULL-TIME STUDENTS WORKING OUTSIDE OF SCHOOL HOURS AT SPECIAL MINIMUM WAGES IN RE-TAIL OR SERVICE ESTABLISHMENTS OR IN AGRICULTURE

Notice is hereby given that pursuant to section 14 of the Fair Labor Standards Act of 1938 (52 Stat. 1060, as amended, 29 U.S.C. 201 et seq.), the regulation on employment of full-time students (29 CFR, Part 519), and Administrative Order No. 621 (36 FR 12819), the establishments listed in this notice have been issued special certificates authorizthe employment of full-time students working outside of school hours at hourly rates lower than the minimum wage rates otherwise applicable under section 6 of the Act. While effective and expiration dates are shown for those certificates issued for less than a year, only the expiration dates are shown for certificates issued for a year. The minimum certificate rates are not less than 85 percent of the applicable statutory minimum.

The following certificates provide for an allowance not to exceed the proportion of the total hours worked by fulltime students at rates below \$1 an hour to the total number of hours worked by all employees in the establishment during the base period in occupations of the same general classes in which the establishment employed full-time students at wages below \$1 an hour in the base year; or provide the same standards authorized in certificates previously issued to the establishment.

A & W Root Beer Drive Inn, restaurant; 2800 Elizabeth Street, Pueblo, Colo.; 7-5-74. Arrington's Food Market, food store; Front

Street, Taylorsville, Miss.; 7-11-74. Baenziger Model Market, Inc., food store; No. 1, Seguin, Tex.; 1-31-74.

Barones Food Market, food store; 1103 Holland, Saginaw, Mich.; 7-5-74.

Barrett Community Home, Inc., nursing home; Barrett, Minn.; 6-24-74

Bethania Hospital, hospital; 1600 11th Street, Wichita Falls, Tex.; 6-8-74.

Bill Crook's Food Town, food store; No. 1, Nashville, Tenn.; 6-30-74.

W. C. Bradley Co. Farms, agriculture; Columbus, Ga.; 6-24-74.

Burger Chef, restaurant; 1000 West Clairmont Avenue, Eau Claire, Wis.; 7-14-74. Carlie C. McLamb Grocery, food store;

Route #2, Dunn, N.C.: 6-25-74.

Central Market, food store; Third and Lincoln, Hebron, Nebr.; 6-23-74.

Charles Womack Garden & Nursery, agriculture; 1602 Cherokee Road, Florence, S.C.; 7-9-74.

Checkered Apron Restaurant, Inc., restaurant; 717 Riverside Drive, Macon, Ga.; 7-1-

Coborn's Inc., food stores, 6-27-74: Foley, Minn.; 327 South Fifth Avenue, St. Cloud, Minn.; Six North Broadway, Sauk Rapids, Minn.

DeByle's, Inc., apparel stores, 7-2-74; Eagle River, Wis.; Minocqua, Wis.; Rhinelander, Wis.; Wisconsin Rapids, Wis.

Don's Rexall Pharmacy, drug store; 127 North Main Street, Monticello, Ind.; 7-18-

Downtown Drugs, drug store; 110 East Broadway, Mount Pleasant, Mich.; 7-14-74, Eaves Restaurant Co., Inc., restaurant; Allendale, S.C.: 6-18-73 to 6-15-74.

Restaurant, restaurant. Knight Bridge Road Columbia, S.C.; 6-30-74. Ferguson Free Car Wash, service station: 2315 Ferguson Road, Cincinnati, Ohio; 6-30-74

Food Fair, Inc., food store; Burnside, Ky.; 7-14-74

Frank Dill's Bestway Market, food store;

Highway 79, Dover, Tenn.; 6-21-74.
Franks IGA Foodliner, food store; 130
South Grand Avenue, Fowlerville, Mich.; 6-

Greenville Car Wash-East, Inc., car wash: 1522 Laurens Road, Greenville, S.C.; 7-25-74. H. E. B. Food Store, food stores; No. 117, Crystal City, Tex., 6-24-74; No. 119, Gates-ville, Tex., 8-3-74; No. 86, Ingleside, Tex., 7-30-74; No. 114, McAllen, Tex., 7-24-74.

Hansen's Drug Store, drug store; 20 West Eighth Street, Holland, Mich.; 7-2-74.

Hayfield Farm, agriculture; Lehman Township, Wilkes-Barre, Pa.; 6-25-74. Hillside Farms, Inc., agriculture; Jackson

and Kingston Townships, Wilkes-Barre, Pa.; 7-4-74

Holiday Inn, motel; Allendale, S.C.; 6-18-73 to 6-15-74.

Ideal Poultry Breeding Farms, Inc., sgriculture; Cameron, Tex.; 6-16-74.

Lerner Shops, apparel stores: No. 489, Colorado Springs, Colo., 7-23-73 to 3-31-74; Nos. 411 and 462, Denver, Colo.; 7-23-73 to 6-12-74; No. 487, Englewood, Colo., 7-23-73 to 4-16-74; No. 463, Lakewood, Colo., 7-23-73 to 6-12-74; No. 406, Pueblo, Colo., 7-23-73 to 6-12-74; No. 460, Westminster, Colo., 7-23-73 6-12-74; No. 460, Westminster, Colo., 7-23-73 to 6-12-74; No. 186, Chattanooga, Tenn., 7-15-74; No. 113, Memphis, Tenn., 7-15-74; No. 350, Irving, Tex., 8-14-73; No. 33, Lynchburg, Va., 7-15-74; No. 120, Newport News, Va., 7-15-74; No. 32, Portsmouth, Va., 7-15-74; No. 40 and 53, Richmond, Va., 7-15-74; No. 40 and 53, Richmond, Va., 7-15-74; No. 32, Portsmouth, Va., 7-15-74; No

Nos. 40 and 55, Richmond, va., 42, Roanoke, Va., 7-15-74.
Lobel's Youth Center, Inc., apparel store; 100 Broadway, East Paterson, N.J.; 6-30-74.
Luke's Foodliner, food store; One Ardmore

Mall, Ardmore, Okla.; 7-14-74. Masonic Homes Farms, agriculture; Elizabethtown, Pa.; 6-23-74.

McDonald's Hamburgers, restaurant; 2650 West 26th Street, Erie, Pa.: 7-9-74.

McIlhenny Co., agriculture; Avery Island. La.; 5-24-74.

Minimax, food store: 1001 South Broadway, LaPorte, Tex.; 8-25-74.

Minyard Food Stores, Inc., food store; 4315

Lancaster Road, Dallas, Tex.; 7-2-74. Morgan Floral Co., agriculture; 624 West Platte Avenue, Fort Morgan, Colo.; 7-20-74. Mount Carmel Home, nursing home; 18th Street and Fifth Avenue, Kearney, Nebr.;

Noble Street Sure Save, food store; 1710

Noble Street, Anniston, Ala.; 6-30-74. Peoples Wholesale Co., food store; Water Valley, Miss.; 6-27-74.

Pierce's Bargain Center, food store; Highway 51 South, Dyersburg, Tenn.; 7-16-74.
Randall's Food Market, Inc., food store; 9448 Long Point Road, Houston, Tex.; 6-25-74

Red & White Super Market, food store; Nashville, N.C.; 6-19-74.

Reed Drug Co., drug stores, 7-20-74: 7810 Olson Highway, Golden Valley, Minn.; 201 South Main Street, Stillwater, Minn.; 505 South Lake Avenue, White Bear Lake, Minn.

Robie's Food Center, Inc., food stores, 6-11-74: 604 South State Street, Abbeville, La.; 1001 East Main Street, Jeanerette, La. Rohman's Thriftway, food store; 810 Main, Concordia, Mo.; 6-22-74.

St. Vincents' Home for the Aged, nursing 4500 Ames Avenue, Omaha, Nebr.;

6-17-74.

Schensul's Cafeteria, Inc., restaurant; 5606 West Saginaw Street, Lansing, Mich.; 7-9-74. Sheppard's Inn Health Pacility, nursing 300 West Culver Road, Knox, Ind.; 6-21-74

Skinner Nursery, agriculture; 1402 Lower Silver Lake Road, Topeka, Kana; 6-24-74. Smith's Food King, food stores, 6-30-74, except as otherwise indicated: No. 21, Bountiful, Utah (6-20-74); No. 50, Clearfield, Utah; No. 45, Orem, Utah; No. 1, Provo, Utah; No. 18. Salt Lake City, Utah.

Stockmen's Drug Co., drug store; 116 North Main, Gordon, Nebr.; 7-5-74. Sunnyway Foods, Inc., food store; 212

North Antrim Way, Greencastle, Pa.; 6-28-74. Super Drive-Ins, food stores; No. 9, Clarks-ville, Tenn., 7-14-74; No. 2 and 5, Nashville, 7-10-74; No. 11, Nashville, Tenn., 7-14-74.

T. G. & Y. Stores Co., variety-department store; No. 35, Ponca City, Okla.; 6-26-74 Terrill's Super Market, food store; 119 Main

Street, Marcellus, Mich.; 6-30-74.

West Allis Trading Post, Inc., hardware store; 9721 West Greenfield Avenue, West Allis, Wis.; 6-22-74.

West End Market, food store; 1220 Clydesdale, Anniston, Ala.: 6-30-74.

Wheaton Super Valu, food store; Wheaton, Minn.; 6-26-74.

Willbrandt Farms, agriculture; 693 West Wedgewood Drive, North Muskegon, Mich .: 7-10-74

Winky's restaurant; 1140 Wayne Avenue,

Indiana, Pa.; 7-5-74. Wright's Markets, Inc., food store; 745 Shawnee Road, Lima, Ohio; 7-6-74.

The following certificates issued to establishments permitted to rely on the base-year employment experience of others were either the first full-time student certificates issued to the estabment, or provide standards different from those previously authorized. The certificates permit the employment of full-time students at rates of not less than 85 percent of the applicable statutory minimum in the classes of occupations listed, and provide for the indicated monthly limitations on the percentage of full-time student hours of employment at rates below the applicable statutory minimums to total hours of employment of all employees.

Bill Crook's Food Town, food store; No. 5, Hickory, Tenn.; sacker, stock clerk; 10 to 11 percent; 7-14-74.

Country School West, restaurant; 2908 Mount Vernon Avenue, Evansville, Ind.; 35 to 56 percent; 6-30-74.

Gee Bee, variety-department store; Queen City Boulevard, Cumberland, Md.; stock derk, salesclerk, cashier, wrapper; 0.2 to 3 percent; 6-30-74.

Hardee's restaurants, for the occupation of general restaurant worker, 7-14-74; 4240 East Grant Road, Tucson, Ariz., 35 to 50 percent; 1233 West St. Mary's Road, Tucson, Ariz., 25 to 63 percent.

Hudson's Bestway, food store; Water Valley, Miss.; grocery clerk; 10 to 33 percent;

Kentucky Fried Chicken, restaurant; 313 Barana, Aurora, Colo.; general restaurant Worker; 29 to 47 percent; 7-8-74. Kingwood Minimax, Inc., food store; 1153 Kingwood Drive, Humble, Tex.; bagger, carry-

janitorial, checker; 9 to 10 percent; 7-15-74.

Maple Avenue Hospital Association, hospital; Maple Avenue, DuBois, Pa.; dietary aid, custodial assistant; 2 percent; 6-30-74.

Pamplico I.G.A. Super Market, food store; Walnut Street, Pamplico, S.C.; bagger, janitorial; 15 percent; 7-10-74.

Pinkie's Grocery & Market, food store; 901 Bessemer Avenue, Llano, Tex.; carry out, sacker, stock clerk; 5 to 10 percent; 7-15-74.

RDR Discount City, variety-department stores, for the occupations of salescierk, stock clerk, janitorial, 13 to 34 percent; 6-30-74; 315 Main Street, Swainsboro, Ga.; Millen Highway, Waynesboro, Ga.

Sloan's Discount Food, food store; 204 West Main Street, Brady, Tex.; stock clerk, sales-clerk, cashier, janitorial; 8 to 15 percent; 6-26-74.

Smith's Food King, food stores, for the occupations of bagger, carry out; 26 to 33 per-cent; 7-8-74; No. 27, Murray, Utah; No. 28, Salt Lake City, Utah.

Super Drive-Ins, food stores, for the occupations of sacker, bottle clerk 21 to 32 percent; 6-20-74: No. 16, Antioch, Tenn.; No. 14. Memphis, Tenn.

Each certificate has been issued upon the representations of the employer which, among other things, were that employment of full-time students at special minimum rates is necessary to prevent curtailment of opportunities for employment, and the hiring of full-time students at special minimum rates will not create a substantial probability of reducing the full-time employment opportunities of persons other than those employed under a certificate. The certificate may be annulled or withdrawn, as indicated therein, in the manner provided in Part 528 of Title 29 of the Code of Federal Regulations. Any person aggrieved by the issuance of any of these certificates may seek a review or reconsideration thereof on or before October 3, 1973.

Signed at Washington, D.C., this 28th day of August 1973.

> DONALD T. CRUMBACK, Authorized Representative of the Administrator.

[FR Doc.73-18734 Filed 9-4-73;8:45 am]

INTERSTATE COMMERCE COMMISSION

OFFICE OF HEARINGS

[Notice 334]

ASSIGNMENT OF HEARINGS

AUGUST 30, 1973.

Cases assigned for hearing, postponement, cancellation or oral argument appear below and will be published only once. This list contains prospective assignments only and does not include cases previously assigned hearing dates. The hearings will be on the issues as presently reflected in the Official Docket of the Commission. An attempt will be made to publish notices of cancellation of hearings as promptly as possible, but interested parties should take appropriate steps to insure that they are notified of cancellation or postponements of hearings in which they are interested. No amendments will be entertained after the date of this publication.

MC-FC-73486, Delta Bus Co., Saginaw, Michigan, Transferee & Henry A. Crooks, DBA Mio Bus Line, Onaway, Michigan Transferor, now being assigned hearing Octo-ber 10, 1973 (1 day), at Lansing, Mich., in a hearing room to be later designated.

MC 113855 Sub 262, International Transport, Inc., now assigned September 10, 1973, at Kansas City, Mo., is cancelled and the application is dismissed.

MC 61955, Centropolis Transfer Co., Inc., now assigned September 19, 1973, at Jefferson City, Mo., will be held in City Hall Coun-

sel Chambers, 238 East Heights. MC-C-7700, East Texas Motor Freight Lines, Inc .- Investigation and Revocation of Certificates, now being assigned continued hearing October 15, 1973, at the Offices of the Interstate Commerce Commission, Washington, D.C.

MC-19227 Sub 181, Leonard Bros., Trucking Co., Inc., application is dismissed.

MC 10794 Sub 3, Perrow Motor Freight Lines, Inc., now assigned September 12, 1973, at Washington, D.C., postponed to October 16, 1973, at the Offices of the Interstate Com-merce Commission, Washington, D.C.

W-1270, Mascony Transport and Ferry Service, Inc., now being assigned October 29, 1973 (1 week), at New London, Conn., in a hearing room to be later designated. I&S 8875, Increased Fares, Port Authority

Trans-Hudson Corporation, now assigned September 24, 1973, at New York, New York, is cancelled and reassigned to September 24, 1973, at Jersey City, N.J., will be held in Freeholders Chambers, Hudson Administration Building, Newark Avenue.

No. W. 1069 Sub 1, Gulf Atlantic Transport Corp., now assigned October 29, 1973, at Washington, D.C., is postponed to Novem-ber 27, 1973, at the Offices of the Interstate Commerce Commission, Washington,

MC 127669 Sub 5, Cherry Hill Transit, now assigned October 29, 1973, at Trenton, N.J., is cancelled and reassigned November 26, 1973 (1 week), in Room 407, New Jersey Public Utility Commission, 28 W. State Street, Trenton, New Jersey.

ROBERT L. OSWALD, Secretary.

[FR Doc.73-18755 Filed 9-4-73;8:45 am]

CANADIAN RAILROADS

[Rev. S.O. No. 994; ICC Order No. 108: Amdt. No. 3]

Rerouting or Diversion of Traffic

Upon further consideration of LC.C. Order No. 108 (Canadian Railroads) and good cause appearing therefor:

It is ordered, That:

I.C.C. Order No. 108 be, and it is hereby, amended by substituting the following paragraph (g) for paragraph (g) thereof:

(g) Expiration date.—This order shall expire at 11:59 p.m., September 15, 1973. unless otherwise modified, changed, or suspended.

It is further ordered. That this amendment shall become effective at 11:59 p.m.. August 31, 1973, and that this amendment shall be served upon the Association of American Railroads, Car Service Division, as agent of all railroads subscribing to the car service and car hire agreement under the terms of that agreement, and upon the American Short Line Railroad Association; and that it

be filed with the Director, Office of the Federal Register.

Issued at Washington, D.C., August 27,

INTERSTATE COMMERCE COMMISSION, R. D. PFAHLER,

[SEAL]

Agent.

[FR Doc.73-18760 Filed 9-4-73;8:45 am]

FOURTH SECTION APPLICATION FOR RELIEF

AUGUST 30, 1973.

An application, as summarized below, has been filed requesting relief from the requirements of Section 4 of the Interstate Commerce Act to permit common carriers named or described in the application to maintain higher rates and charges at intermediate points than those sought to be established at more distant points.

Protests to the granting of an application must be prepared in accordance with Rule 1100.40 of the General Rules of Practice (49 CFR 1100.40) and filed within 15 days from the date of publication of this notice in the PEDERAL REGISTER.

FSA No. 42739-Iron or Steel Pipe and Related Articles to West Junction, Texas.—Filed by Southwestern Freight Bureau, Agent (No. B-428), for interested rall carriers. Rates on iron or steel pipe and related articles, in carloads, as described in the application, from points in official (including Illinois), southern and western trunk-line territories, to West Junction, Texas. Grounds for relief—Bate relationship.

Tariff-Supplement 15 to Southwestern Freight Bureau, Agent, tariff 259-F, I.C.C. No. 5080. Rates are published to become effective on October 1, 1973.

By the Commission.

ROBERT L. OSWALD, Secretary.

[FR Doc.73-18754 Filed 9-4-73;8:45 am]

[Notice 345]

MOTOR CARRIER BOARD TRANSFER **PROCEEDINGS**

Synopses of orders entered by the Motor Carrier Board of the Commission pursuant to sections 212(b), 206(a), 211, 312(b), and 410(g) of the Interstate Commerce Act, and rules and regulations prescribed thereunder (49 CFR Part 1132), appear below:

Each application (except as otherwise specifically noted) filed after March 27, 1972, contains a statement by applicants that there will be no significant effect on the quality of the human environment resulting from approval of the application. As provided in the Commission's Special Rules of Practice any interested person may file a petition seeking reconsideration of the following numbered proceedings on or before September 24, 1973. Pursuant to section 17(8) of the Interstate Commerce Act, the filing of such a petition will postpone the effective date of the order in that proceeding pending its disposition. The matters relied upon by petitioners must be specified in their petitions with particularity.

No. MC-FC-74356. By order of August 27, 1973, the Motor Carrier Board approved the transfer to Warner-Schuitema Moving & Storage Co., A Corporation, 327 E. Laketon Avenue, Muskegon, Mich. 49442, of the operation rights in Certificate No. MC-88087 issued March 12, 1957, to Henry L. Schuitema, doing business as Warner-Schuitema Moving & Storage Co., 327 E. Laketon Avenue, Muskegon, Mich. 49442, authorizing the transportation of household goods, between Muskegon, Mich., and points in Michigan, Illinois, Indiana, and Ohio: malt beverages, from Chicago, Ill., and Fort Wayne and South Bend, Ind., to Muskegon, Mich., and empty malt beverage containers on return; frozen fruits and frozen juices, from Benton Harbor, Frankfort, Grand Rapids, Hart, Manistee, Muskegon, and Traverse City, Mich., to points in Arkansas, Illinois, Iowa, Indiana, Kansas, Kentucky, Minnesota, Missouri, Nebraska, New York, Ohio, Okiahoma, Pennsylvania, Texas, West Virginia, and Wisconsin; and fruits processed for freezing, from Elk Rapids, Frankfort, Hart, Traverse City, Mich., to Chicago, Ill.

ROBERT L. OSWALD, [SEAL] Secretary.

[FR Doc.73-18756 Filed 9-4-73;8:45 am]

[Notice 118]

MOTOR CARRIER TEMPORARY **AUTHORITY APPLICATIONS**

AUGUST 28, 1973.

The following are notices of filing of application, except as otherwise specifically noted, each applicant states that there will be no significant effect on the quality of the human environment resulting from approval of its application, for temporary authority under section 210a(a) of the Interstate Commerce Act provided for under the new rules of Ex Parte No. MC-67 (49 CFR 1131), published in the Federal Register, issue of April 27, 1965, effective July 1, 1965. These rules provide that protests to the granting of an application must be filed with the field official named in the FED-ERAL REGISTER publication, within 15 calendar days after the date of notice of the filing of the application is published in the FEDERAL REGISTER. One copy of such protests must be served on the applicant, or its authorized representative, if any, and the protests must certify that such service has been made. The protests must be specific as to the service which such protestant can and will offer, and must consist of a signed original and six (6) copies.

A copy of the application is on file, and can be examined at the Office of the Secretary, Interstate Commerce Commission, Washington, D.C., and also in field office to which protests are to be trans-

MOTOR CARRIERS OF PROPERTY

No. MC 5227 (Sub-No. 8 TA), filed August 15, 1973. Applicant: ECONOMY MOVERS, INC., P.O. Box 201, Mead, in the Federal Register issue of August Nebr. 68041. Applicant's representative: 13, 1973, and republished as corrected

Gailyn L. Larsen, 521 So. 14 Street (P.O. Box 81849), Lincoln, Nebr. 68501, Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: (1) Buildings, complete, knocked down, or in sections; (2) building sections and building panels; and (3) metal prefabricated structural components, from the plant site of American Buildings at Atlantic, Iowa, to points in Arizona, California, Colorado, Idaho, Kansas, Minnesota, Montana, Nebraska, Nevada, New Mexico, Wyoming, North Dakota, Oklahoma, Oregon, South Dakota, Wisconsin, Utah, Illinois, Washington, Missouri, and Arkansas, for 180 days. SUPPORTING SHIPPER: American Buildings Co., Inc., H. T. Holley, Traffic Mgr., P.O. Box 476, Atlantic, Iowa 50022. SEND PROTESTS TO: District Supervisor Carroll Russell, Interstate Commerce Commission, Bureau of Operations, 711 Federal Office Bldg., Omaha, Nebr. 68102.

No. MC 5227 (Sub-No. 9 TA), filed August 16, 1973. Applicant: ECONOMY MOVERS, INC., P.O. Box 201, Mead. Nebr. 68041. Applicant's representative: Gailyn L. Larsen, P.O. Box 81849, Lincoln, Nebr. 68501. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: (1) Buildings, complete, knocked down, or in sections; (2) building sections and building panels; and (3) metal prefabricated structural components, from the plant site of American Buildings Co., Inc. at Atlantic, Iowa, to points in Arizona, California, Colorado, Idaho, Kansas, Minnesota, Montana, Nebraska, Nevada, New Mexico, Wyoming, North Dakota, Oklahoma, Oregon, South Dakota, Oklahoma, Oregon, South Dakota, Wisconsin, Utah, Washington, Illinois, Missouri, Arkansas, Indiana, and Michigan, for 180 days, SUPPORTING SHIPPER: H. T. Holley, Traffic Manager, American Buildings Co., Inc., P.O. Box 476, Atlantic, Iowa 50022. SEND PROTESTS TO: Max H. Johnston, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 320 Federal Building & Court House, Lincoln, Nebr. 68508.

No. MC 26396 (Sub-No. 89 TA), filed August 16, 1973. Applicant: POPELKA TRUCKING CO., doing business as THE WAGGONERS, P.O. Box 990, Livingston, Mont. 59047. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Lumber and wood, forest, and lumber products, from points in Montana, to points in Tennessee, Arkansas, Alabama, Georgia, Louisiana, Mississippi, Pennsylvania, Kentucky, South Carolina, North Carolina, and Virginia, for 180 days. Supporting shipper: Rock Van & Storage, Inc., P.O. Box 1504, Missoula, Mont. 59801. Send protests to: Paul J. Labane, District Supervisor, Interstate Commerce Commission, Bureau of Operations, Room 222, U.S. Post Office Building, Billings, Mont. 59101.

No. MC 41706 (Sub-No. 17 TA) (Correction), filed July 30, 1973, published this issue. Applicant: TOSE, INC., 64 West Fourth Street, Bridgeport, Pa. 19405. Applicant's representative: Anthony C. Vance, 1111 E Street NW., Suite 501, Washington, D.C. 20004.

Note.—The purpose of this partial republication is to add some additional supporting shippers, which were omitted in previous publication.

Supporting shippers: There are approximately 14 additional statements of support attached to the application, which may be examined here at the Interstate Commerce Commission in Washington, D.C., or copies thereof which may be examined at the field office named below.

Send protests to: Ross A. Davis, District Supervisor, Interstate Commerce Commission, Bureau of Operations, Wm. J. Green, Jr., Federal Bldg., 600 Arch Street, Room 3238, Philadelphia, Pa. 19106. The rest of the application remains the same.

No. MC 43246 (Sub-No. 17 TA), filed August 20, 1973. Applicant: BUSKE LINES, INC., 123 West Tyler Street, Litchfield, Ill. 62056. Applicant's representative: Harold Buske (same address as above). Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Glass containers, from the plantsite and warehouse facilities of Hillsboro Glass Company at or near Hillsboro, Ill., to Detroit, Mich., for 180 days. SUPPORTING SHIPPER: R. J. LaVigne, Traffic Manager, Hillsboro Glass Company, 8325 Jefferson East, Detroit, Mich. 48214. SEND PROTESTS TO: Harold C. Jolliff, District Supervisor, Bureau of Operations, Interstate Commerce Commission, Le-land Office Bldg., 527 East Capitol Avenue, Room 414, Springfield, Ill. 62701.

No. MC 51146 (Sub-No. 328 TA), filed August 20, 1973. Applicant: SCHNEIDER TRANSPORT, INC., 2661 South Broadway, P.O. Box 2298 (Box zip 54306), Green Bay, Wis. 54304. Applicant's representative: Neil DuJardin (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Metal containers and container parts and accessories, from Racine, Wis., to Danville, Ill., for 180 days. SUPPORT-ING SHIPPER: Continental Can Company, Inc., 150 S. Wacker Drive, Chicago, Ill. 60606 (David G. Kelly, Central Region Traffic Manager). SEND PRO-TESTS TO: District Supervisor John E. Ryden, Interstate Commerce Commission, Bureau of Operations, 135 West Wells Street, Room 807, Milwaukee, Wis. 53203.

No. MC 83539 (Sub-No. 375 TA), filed August 13, 1973. Applicant: C & H TRANSPORTATION CO., INC., 2010 West Commerce Street (P.O. Box 5976) (Box zip 75222), Dallas, Tex. 75208. Applicant's representative: Thomas E. James (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Plastic pipe, conduit, ducts, and tubes and related fit-

tings, attachments, materials and accessories used in the installation thereof, from Nazareth, Pa., to points in Connecticut, Delaware, the District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, North Carolina, Pennsylvania, Rhode Island, Vermont, Virginia, and West Virginia, for 180 days. SUPPORTING SHIPPER: CARLON DIVISION, Indian Head, Inc., 23200 Chagrin Blvd., Cleveland, Ohio 44122. SEND PROTESTS TO: Gerald T. Holland, Transportation Specialist, Interstate Commerce Commission, Bureau of Operations, 1100 Commerce Street, Room 13C12, Dallas, Tex. 75202.

No. MC 110252 (Sub-No. 63 TA). filed August 16, 1973. Applicant: JAMES J. WILLIAMS, INC., Off: 5711 E. Third Avenue Mail: Box 2825, Terminal Annex, Terminal ZIP (99220), Spokane, Wash. 99206. Applicant's representative: John D. Robertson (same address as applicant). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Gasoline and diesel fuel, from Calgary, Alberta, Canada, through the following points of entry on or near the Canadian-United States International Boundary Line: Eastport, Idaho (Yak, B.C.); Porthill, Idaho (Creston, B.C.); Metaline, Wash. (Nelway, B.C.); Northport, Wash. (Wanita, B.C.); Laurier, Wash. (Cascade, B.C.); and Oroville, Wash. (Osoyoos, B.C.), to points in Idaho north of the southern boundary of Idaho County and to points in Washington on and east of Highway 97, for 180 days. SUPPORT-ING SHIPPER: Triangle Oil Company (Owner), Time Oil Company (Dispatcher), 7716 E. Broadway Ave., Spokane, Wash. 99220. SEND PROTESTS TO: L. D. Boone, Transportation Specialist, Interstate Commerce Commission, Bureau of Operations, 6049 Federal Office Bldg., Seattle, Wash. 98104.

No. MC 111045 (Sub-No. 106 TA), filed August 16, 1973. Applicant: REDWING CARRIERS, INC., Post Office Box 426, 7809 Palm River Rd., Tampa, Fla. 33601. Applicant's representative: J. V. McCoy (same address as above). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Molten sulphur, in bulk, in tank vehicles, from Savannah, Ga., to Fernandina Beach, Fla., for 180 days. SUPPORTING SHIPPER: Texasgulf Inc., 311 Rusk Avenue, Room 1704, Houston, Tex. 77002. SEND PROTESTS TO: District Supervisor Joseph B. Teichert, Interstate Commerce Commission, Bureau of Operations, 5720 SW. 17th St., Room 105, Miami, Fla. 33155.

No. MC 113666 (Sub-No. 80 TA), filed August 16, 1973. Applicant: FREE-PORT TRANSPORT, INC., 1200 Butler Road, Freeport, Pa. 16229. Applicant's representative: Daniel R. Smetanick (same address as above). Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Refractory products, except in bulk, from Farber, Mo., to the International Boundary line between the

United States and Canada located in Vermont, Maine, New Hampshire, New York, Michigan, and Minnesota, for 180 days. SUPPORTING SHIPPER: North American Refractories Co., 1012 National City E-6th Building, Cleveland, Ohio 44114. SEND PROTESTS TO: John J. England, District Supervisor, Bureau of Operations, Interstate Commerce Commission, 2111 Federal Bldg., Pittsburgh, Pa., 15222.

No. MC 114604 (Sub-No. 18 TA), filed August 1, 1973. Applicant: CAUDELL TRANSPORT, INC., State Farmers Market, No. 33, Forest Park, Ga. 30050. Applicant's representative: Frank D. Hall, Suite 713, 3384 Peachtree Road NE., Atlanta, Ga. 30326. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Bananas, plantains, and pineapples, from Tampa, Fla., to points in North Carolina, Mississippi, Tennessee, Alabama, Georgia, and South Carolina, for 180 days.

Nore.—Applicant intends to tack authority sought with existing authority where possible.

SUPPORTING SHIPPERS: Parker Banana Company, P.O. Box 1273, Municipal Docks, Tampa, Fla., and Turbana Banana Corporation, P.O. Box 9249, Coral Gables, Fla., 33134. SEND PROTESTS TO: William L. Scroggs, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 1252 West Peachtree Street NW., Room 309, Atlanta, Ga. 30309.

No. MC 115311 (Sub-No. 157 TA), filed August 1, 1973. Applicant: J & M TRANS-PORTATION CO., INC., P.O. Box 488, Milledgeville, Ga. 31061. Applicant's representative: Paul M. Daniell, Suite 1600 First Federal Bldg., Atlanta, Ga. 30303. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Lumber, from the plantsite of Georgia-Pacific Corporation at Bellville, Ga., and Warrenton, Ga., to points in Alabama, Florida, North Carolina, South Carolina, Tennessee, Kentucky and Georgia, for 180 days. SUPPORTING SHIPPER: Georgia-Pacific Corporation, P.O. Box 909, Augusta, Ga. 30903, SEND PRO-TESTS TO: William L. Scroggs, District Supervisor, Interstate Commerce Commission, Bureau of Operations, Room 309, 1252 W. Peachtree Street, NW., Atlanta, Ga. 30309.

No. MC 117439 (Sub-No. 44 TA), filed August 21, 1973. Applicant: BULK TRANSPORT, INC., Mig.: P.O. Box 89, Off.: U.S. Highway 190, Port Allen, La. 70767. Applicant's representative: John Schwab, P.O. Box 3036, Baton Rouge, La. 70821. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Mineral grit and blast-cleaning grit, in bulk, in tank vehicles, from New Orleans, La., to points in Mississippi and Alabama, for 180 days. SUPPORTING SHIPPER: Standard Paint & Varnish Co., P.O. Box \$26, Harvey, La. 70058, Mr. George Malochee, Office Mgr. SEND PROTESTS

TO: Ray C. Armstrong, Jr., District Supervisor, Interstate Commerce Commission, Bureau of Operations, T-9038 U.S. Postal Service Bldg., 701 Loyola Avenue, New Orleans, La. 70113.

No. MC 127577 (Sub-No. 4 TA), filed August 20, 1973. Applicant: D. DON-NELLY, LIMITED, 191 Murray Street, Montreal, Quebec, Canada. Applicant's representative: W. Norman Charles, 80 Bay Street, Glens Falls, N.Y. 12801. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Magnetite, in bulk, in dump vehicles, from Tahawus, N.Y., to Port of Entry on the International Boundary Line between the United States and Canada at or near Champlain, N.Y., for 180 days. SUPPORTING SHIPPER: Quebec Iron and Titanium Corporation, Tracy, Quebec, Canada. SEND PROTESTS TO: District Supervisor Paul D. Collins, Interstate Commerce Commission, Bureau of Operations, 52 State Street, Room 5, Montpelier, Vt. 05602.

No. MC 128375 (Sub-No. 100 TA), filed August 16, 1973. Applicant: CRETE CAR-RIER CORPORATION, 1444 Main, P.O. Box 249, Lincoln, Nebr. 68501. Applicant's representative: Duane W. Acklie (same address as above). Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Rejected, returned, replacement, recalled, and obsolete motor vehicle parts, accessories and related items, from points in the United States, to the facilities of the Maremont Corporation at or near Loudon, Pulaski, and Nashville, Tenn., for 180 days. SUP-PORTING SHIPPER: Anthony T. Santella, The Maremont Corporation, 168 North Michigan Avenue, Chicago, Ill 60601, SEND PROTESTS TO: Max H. Johnston, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 320 Federal Building & Court House, Lincoln, Nebr. 68508.

No. MC 128383 (Sub-No. 37 TA), filed August 13, 1973. Applicant: PINTO TRUCKING SERVICE, INC., 1414 Calcon Hook Road, Sharon Hill, Pa. 19079. Applicant's representative: Gerald K. Gimmel, 666 Eleventh St. NW., Washington, D.C. 20001. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: General commodities (except commodities in bulk, Class A and B explosives, and motor vehicles requiring the use of special equipment), between Chicago O'Hare International Airport, at or near Chicago, Ill.; Weir-Cook Airport at or near Indianapolis, Ind.; the Greater Cincinnati Airport at or near Cincinnati, Ohio; the Hopkins International Airport at or near Cleveland, Ohio; and the Greater Pittsburgh Airport at or near Pittsburgh, Pa., restricted to the transportation of traffic having a prior or subsequent movement by air or moving in a substitute for air service, for 180 days. SUPPORTING SHIPPERS: Skyline Air Freight, 1511 Carmen Dr., Elk Grove, Ill., 60007; Five Star Air Freight, 3rd & Governor Printz Blvd., Lester, Pa. 19118;

U.S. Air Freight, O'Hare International Airport, Chicago, Ill. 60006; Air France, 1350 Avenue of the Americas, New York, N.Y. 10019; Bor-Air Freight, 351 West 38th Street, New York, N.Y. 10018; and Forty-Four Air Freight, 126–30 37th Avenue, Corona, N.Y. 11368. SEND PROTESTS TO: Peter R. Guman, District Supervisor, Interstate Commerce Commission, Bureau of Operations, Federal Bidg., Room 3238, 600 Arch Street, Philadelphia, Pa. 19106.

No. MC 134291 (Sub-No. 2 TA), filed August 16, 1973. Applicant: JOSEPH R. ST. HILAIRE, doing business as ST. HILAIRE'S DELIVERY SERVICE, Bristol, Conn. 06010. Applicant's representative: J. Aiden Connors, 145 East 49th Street, New York, N.Y. 10017. Authority sought to operate as a contract carrier, by motor vehicle, over irregular transporting: Manuscripts. routes, proofs, page proofs, art work, film, magazines, printed matter, between the plant site of American Can Company, Bristol Printing Division, Bristol, Conn., on the one hand, and, on the other, points in Nassau and Suffolk Counties, N.Y.; Newark, N.J.; New York, N.Y., Commercial Zone as defined by the Commission, Trenton, N.J.; Philadelphia, Pa., Commercial Zone, Wilmington, Del., and Baltimore, Md., for 180 days. SUPPORT-ING SHIPPER: American Can Company—Printing Division, Bristol Plant, 50 Emmett Street, Bristol, Conn. 06010. SEND PROTESTS TO: David J. Kiernan, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 135 High Street, Room 324, Hartford, Conn. 06101.

No. MC 134370 (Sub-No. 11 TA), filed August 16, 1973. Applicant: OSBORNE TRUCKING CO., INC., 1008 Sierra Drive, Riverton, Wyo. 82501. Applicant's representative: Robert S. Stauffer, 3539 Boston Road, Cheyenne, Wyo. 82001. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Roofing and building materials (except in bulk, in tank vehicles), from Denver, Colo., to points in Wyoming and that part of Nebraska located on and west of U.S. Highway 83, for 180 days. SUPPORT-ING SHIPPERS: GAF Corporation, 32 Main Street, South Bound Brook, N.J. 4501 08880; Gittings Lumber Co., Inc., Wynkoop Street, Denver, Colo. 80216; BLC Supply, Inc., 60 East Floyd Ave., Englewood, Colo. 80110; and The Denver Reserve Supply Company, 555 West 48th Avenue, Denver, Colo. 80216. SEND PROTESTS TO: District Supervisor Paul A. Naughton, Interstate Commerce Commission, Bureau of Operations, Rm. 1006 Federal Bldg. & Post Office, 100 East B Street, Casper, Wyo. 82601.

No. MC 134631 (Sub-No. 17 TA), filed August 15, 1973. Applicant: SCHULTZ TRANSIT, INC., 323 East Bridge Street, P.O. Box 406, Winona, Minn. 55987. Applicant's representative: Eugene A Schultz (same address as above). Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Radio, phonograph,

television, and stereo cabinets, record changer bases, and speaker boxes, with or without mechanisms, from Red Wing and Minona, Minn., to Seattle, Wash.; points in Massachusetts, Jessup, Md.; and their commercial zones, for 180 days, SUPPORTING SHIPPER: Winona Industrial Sales Corporation, 602 East Front Street, Winona, Minn. 55987. SEND PROTESTS TO: District Supervisor A. N. Spath, Interstate Commerce Commission, Bureau of Operations, 448 Federal Building & U.S. Court House, 110 S. 4th St., Minneapolis, Minn. 55401.

No. MC 135364 (Sub-No. 7 TA), filed August 13, 1973. Applicant: MORWALL TRUCKING, INC., R.D. 3—Box 76-C, Moscow, Pa. 18444. Applicant's representative: Kenneth R. Davis, 999 Union Street, Taylor, Pa. 18517. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: (1) Materials and supplies used in the manufacture and shipping of artificial Christmas trees, (a) from Nicholasville, Ky., to Blakely, Pa. and Coxsackie, N.Y., and (b) from Middlebury, Vt., and Piscataway, N.J., to Lexington, Ky .: (2) artificial Christmas trees, from piers located in the Norfolk. Va., harbor area and the port facilities in New York and in New Jersey within the New York, N.Y., habor area as defined by the Commission in Ex Parte No. 140. Determination of the Limits of New York and New Jersey Harbors contiguous thereto, to Coxsackie, N.Y., and Lexington, Ky.; (3) artificial Christmas trees and materials and supplies used in the manufacture and shipping of the abovenamed commodities, between the facili-ties of American Technical Industries, Inc., at Lexington, Ky., and Blakely, Pa., and from Blakely, Pa., to Coxsackie, N.Y.; and (4) artificial Christmas trees, from Lexington, Ky., to Harrisburg and Pittsburgh, Pa.; the District of Columbia, Wilmington, Del.; New York and Mount Vernon, N.Y.; and Baltimore, Md., for 150 days. RESTRICTION: Transportation to be performed under a continuing contract with American Technical Industries, Inc., or its subsidiaries. SUP-PORTING SHIPPER: American Technical Industries, Inc., 1454 Jingle Bell Lane, Lexington, Ky. 40505. SEND PRO-TESTS TO: Paul J. Kenworthy, District Supervisor, Bureau of Operations, Interstate Commerce Commission, 309 U.S. Post Office Building, Scranton, Pa. 18503.

No. MC 138018 (Sub-No. 2 TA), filed August 14, 1973. Applicant: REFRIG-ERATED FOODS, INC., P.O. Box 1018. 3200 Blake Street, Denver, Colo. 80205. Applicant's representative: Truman A. Stockton, The 1650 Grant Street Bldg., Denver, Colo. 80203. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: (1) meats, meat products, meat byproducts, dairy products and articles distributed by meat packinghouses as described in Sections A, B, and C of Appendix I to the report in Descriptions in Motor Carrier Certificates, 61 M.C.C. 209 and 766 (except hides and commodities in bulk), from Wagner, S. Dak., to points in Arizona, California, Colorado, Idaho, Illinois, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, Oregon, Utah, Washington, Wisconsin, and Wyoming and (2) meats, meat products and meat by-products as described in (1) (except hides and commodities in bulk), and materials, supplies, and equipment used by meatpackers in the conduct of their business, from points in Arizona, California, Colorado, Idaho, Illinois, Iowa, Kansas, Minnesota, Missouri, Montana, Nebraska, Nevada, New Mexico, Oregon, Utah, Washington, Wisconsin, and Wyoming, to Wagner, S. Dak., for 180 days. SUPPORTING SHIPPER: Yankton Sioux Industries, 301 North Fifth Street, Minneapolis, Minn. 55403. SEND PROTESTS TO: District Supervisor Roger L. Buchanan, Interstate Commerce Commission, Bureau of Operations, 2022 Federal Building, Denver, Colo. 80202.

No. MC 138551 (Sub-No. 1 TA), filed August 15, 1973, Applicant: PARCEL DISPATCH, INC., 305 North Senate Avenue, Indianapolis, Ind. 46204. Applicant's representative: Warren C. Moberly, 777 Chamber of Commerce Bldg., Indianapolis, Ind. 46204. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Merchandise, equipment, and supplies, sold, used or distributed by a manufacturer of cosmetics, except (a) glass containers, (b) enclosures for glass containers, (c) fiberboard boxes, and (d) commodities in bulk, between Cincinnati, Ohio, on the one hand, and on the other, points in Indiana, for 180 days. SUPPORTING SHIPPER: Avon Products, Inc., 175 Progress Place, Cincinnati, Ohio 45246. SEND PROTESTS TO: James W. Habermehl, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 802 Century Bldg., 36 S. Penn. St., Indianapolis, Ind. 46204.

No. MC 138571 (Sub-No. 3 TA), filed August 16, 1973. Applicant: PAUL W. MUMFORD, JR., doing business as MUMFORD HORSE TRANSPORTA-TION, Turf Trailer Park, Charles Town, W. Va. 25414. Applicant's representative: Bernard J. Hasson, Jr., 927 Fifteenth Street NW., Suite 306, Washington, D.C. 20005. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Livestock, other than ordinary, for breeding, racking, show, and other special purposes, and in the same vehicle with such livestock, personal effects of attendants, trainers, and exhibitors, and supplies and equipment used in the care and exhibition of such animals, between Charles Town, W. Va., on the one hand, and, on the other, points in Pennsylvania and return, for 180 days. SUPPORTING SHIPPERS: There are approximately 37 statements of support attached to the application, which may be examined here at the Interstate Commerce Commission in Washington, D.C., or copies thereof which may be examined at the field office named below. SEND PROTESTS TO: Robert D. Caldwell, District Supervisor, Bureau of Operations, Interstate

Constitution Avenue NW., Washington, D.C. 20423.

No. MC 138752 (Sub-No. 1 TA), filed August 21, 1973. Applicant: BEAUFERD SCHMIDT, Rte 2, Box 26, Canton, Kans. 67428. Applicant's representative: Eugene W. Hiatt, 308 Casson Bldg., Topeka, Kans, 66603. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Polyurethane foam, from Newton, Kans., to Springfield, Mo.; Kansas City, Mo.; Monette, Mo.; Chillocothe, Mo.; St. Louis, Mo.; Oklahoma City, Okla. Mc-Gregor, Tex.; Dallas, Tex.; Fort Worth, Tex.; Mr. Vernon, Tex.; and Denver, Colo., for 180 days. SUPPORTING SHIPPER: Future Foam, Inc., P.O. Box 1017, Downtown Station, Omaha, Nebr. 68101. SEND PROTESTS TO: M. E. Taylor, District Supervisor, Interstate Commerce Commission, Bureau of Operations, 501 Petroleum Building, Wichita, Kans. 67202.

No. MC 138993 TA, filed August 14, 1973. Applicant: EVERGREEN LUMBER SALES, INC., 100 River Avenue, Eugene, Oreg. 97402, and Mail: P.O. Box 2351, Eugene, Oreg. 97402. Applicant's representative: R. B. Taylor (same address as above). Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Lumber, plywood, particle board, sheet rock wallboard, between points in Oregon, on the one hand, and, on the other, points in California, Nevada, Arizona, and Utah, for 180 days. SUPPORTING SHIPPERS: A & R Lumber Sales, Inc., P.O. Box 2803, Eugene, Oreg. 97402, and Hobin Lumber Co., P.O. Box 709, Philomath, Oreg. 97370. SEND PROTESTS TO: District Supervisor A. E. Odoms, Interstate Commerce Commission, Bureau of Operations, 450 Multnomah Bldg., 319 SW. Pine Street, Portland, Oreg. 97204.

No. MC 138994 TA, filed August 16, 1973, Applicant: MELVIN'S WRECKER SERVICE, Route 5, Box 81, Mooresville, N.C. 28115. Applicant's representative: John McLain Massey, 114 Court Street, P.O. Box 1227, Statesville, N.C. 28677. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Wrecked or disabled trucks, tractors, and semitrailers, and replacement vehicles, for the abovenamed vehicles, (1) from points in Alabama, Louisiana, Mississippi, Florida, Georgia, Tennessee, South Carolina, Virginia, West Virginia, Maryland, Delaware, New York, Pennsylvania, New Jersey, Connecticut, Massachusetts, Rhode Island, Ohio, Kentucky, and the District of Columbia, to points in Mecklenburg County, N.C., and (2) from points in Mecklenburg County, N.C., to points in said states; and (3) from points in South Carolina, Georgia, Virginia and Tennessee, to Iredell County, N.C.; and (4) from points in Iredell County, N.C., to points in said states, for 180 days. SUPPORT-ING SHIPPERS: Bay State Milling Company, 448 N. Main Street, P.O. Box 358, Mooresville, N.C. 28115, and Johnson Motor Lines, Inc., P.O. Box 10877, Charlotte, N.C. 28201. SEND PROTESTS TO: District Supervisor Terrell Price, Interstate Commerce Commission, Bureau of Operations, 800 Briar Creek Road, Room CC516, Charlotte, N.C. 28205.

No. MC 138997 TA, filed August 15, 1973. Applicant: WILLIAMS MACHIN-ERY MOVERS, INC., 248-47 Jamaica Avenue, Bellerose, N.Y. 11426. Applicant's representative: Arthur J. Piken, One Lefrak City Plaza, Flushing, N.Y. 11368. Authority sought to operate as a contract carrier, by motor vehicle, over irregular routes, transporting: Printing, bindery and box making machinery. equipment, and parts, (a) between points in the New York, N.Y., commercial zone as defined in the fifth supplemental report in Commercial Zones and Terminal Areas, 53 MCC 451, within which local operations may be conducted pursuant to the partial exemption of section 203(b) (8) of the Interstate Commerce Act (the "exempt" zone) points in Hudson and Essex Counties, N.J., on the one hand, and, on the other, points in New York, New Jersey, Pennsylvania, Delaware, Maryland, Rhode Island, Virginia, Connecticut, Massachusetts, Ohio, and the District of Columbia, and (b) between points in New York, New Jersey, Pennsylvania, Delaware, Maryland, Virginia, Connecticut, Rhode Island, Massachusetts, Ohio, and the District of Columbia, under continuing contract with Heidelberg Eastern, Inc., for 180 days. SUP-PORTING SHIPPER: Heidelberg Eastern, Inc., 73-45 Woodhaven Boulevard, Glendale, N.Y. 11227, SEND PROTESTS TO: Paul W. Assenza, District Supervisor, Interstate Commerce Commission. Bureau of Operations, 26 Federal Plaza, New York, N.Y. 10007.

No. MC 139002 TA, filed August 20, 1973. Applicant: JOSEPH GEORGIANA. 26 Lafayette Street, Somerset, N.J. 08873. Applicant's representative: George A. Olsen, 69 Tonnele Avenue, Jersey City, N.J. 07306. Authority sought to operate as a common carrier, by motor vehicle, over irregular routes, transporting: Record album and book slip cases, from New Brunswick, N.J., to New Berlin, Wis., for 180 days, SUPPORTING SHIPPER: Alexander Ungar, Inc., 15 Industrial Drive, New Brunswick, N.J. 08903. SEND PROTESTS TO: District Supervisor Robert S. H. Vance, Bureau of Operations, Interstate Commerce Commission. 9 Clinton St., Newark, N.J. 07102.

By the Commission.

[SEAL] ROBERT L. OSWALD, Secretary.

[FR Doc.73-18757 Filed 9-4-73;8:45 am]

[Ex Parte No. 299 (Sub-No. 1)]

LONG ISLAND RAIL ROAD CO. Freight Rates and Charges—1973

August 29, 1973.

By petition filed on August 24, 1973, The Long Island Rail Road Company, in accordance with the amendments to the Interstate Commerce Act effected by the Railroad Rate Adjustment Act of 1973, and the requirements and procedures

promulgated thereunder in Ex Parte No. 298 (49 CFR 1107), requests the Commission to permit the filing of a proposed tariff and the establishment of interim increases in freight rates and charges to offset increases in taxes under the Railroad Retirement Act, as amended. The increases in taxes become effective on October 1, 1973, and on January 1, 1974. The increases in rates and charges sought to offset those tax increases are 3.5 and 5.5 percent, respectively, to be-come effective on the same dates, the latter to be applied in lieu of the former beginning January 1, 1974. The petition is accompanied by a verified statement, containing statistical data, which is intended to constitute the data and information required pursuant to Ex Parte No. 298, Also, in accordance with the requirements of Ex Parte No. 298, petitioner points out that it forsees that it will be able to absorb and offset \$1,770,-000 of increased costs from new traffic revenues and on account of reduced eximproved penses from operating procedures.

Furthermore, the petition indicates that petitioner intends to recover the balance of the increased costs by publication of a proposed tariff which sets forth the sought rate increases in the form of a terminal surcharge. Petitioner represents that this method of recovering its increased costs is necessary because it receives only about 14 percent of the through freight charges assessed on traffic moving to and from points on its lines. In order to recover 5.5 percent of total freight revenues for retirement tax purposes solely from petitioner's divisional share of line-haul rates and charges, all rates to and from points on petitioner's lines would allegedly have to be increased by 37.5 percent. Finally, application of the indicated surcharges would still allegedly leave petitioner's rates on a lower level than those of other eastern railroads, specifically, 1.5 percent lower as of October 1, 1973 and 0.2 percent lower on January 1, 1974.

In accordance with the provisions of section 15a(4) (a) and (b) of the Interstate Commerce Act, recent amendments, the order required to be issued in this proceeding within 30 days will be based solely on the Commission's analysis and verification of the data and information submitted by the railroad in accordance with Ex Parte No. 298. However, that order will be published in the Federal

REGISTER and will provide for notification to the Commission by all persons who are interested in participating in the subsequent hearings to be held under the provisions of section 15a(4) (c).

> ROBERT L. OSWALD, Secretary.

[FR Doc.73-18759 Filed 9-4-73;8:45 am]

COST OF LIVING COUNCIL FOOD INDUSTRY ADVISORY COMMITTEE Notice of Closed Meeting

Pursuant to the provisions of the Federal Advisory Committee Act (Public Law 92–463, 86 Stat. 770), notice is hereby given that the meeting of the Food Industry Advisory Committee, created by section 7(b) of Executive Order 11695, will be held on September 10, 1973, at 9 a.m., at 2000 M Street, NW., Room 7206, Washington D.C.

Since the meeting will consider sensitive policy issues and possible governmental actions in connection therewith, I have determined that the meetings would fall within exemption (5) of 5 U.S.C. 552(b) and that it is essential to close the meeting to protect the free exchange of internal views and to avoid interference with the operation of the Committee.

Issued in Washington, D.C., September 4, 1973.

HENRY H. PERRITT, Jr., Executive Secretary, Cost of Living Council.

[FR Doc.73-19019 Filed 9-4-73;12:40 pm]

POSTAL SERVICE

SCHEDULED INCREASES IN CERTAIN POSTAGE RATES

Notice of Effective Date

Notice is hereby given that the second step of phased postage rate increases, scheduled to become effective July 6, 1973 (38 FR 13697-98, May 24, 1973), and suspended until further notice (38 FR 17886, July 5, 1973), will be placed in effect on September 9, 1973, at 12:01 a.m. As announced in the Pederal Register of May 24, 1973, this action represents the next step of scheduled rate increases for the following classes of mail: second-class; controlled circulation; third-class bulk for qualified nonprofit organizations; special fourth-class and library fourth-class. Rate increases for these

classes are being phased in over periods of 5 years for some and 10 years for others, as specified in 39 U.S.C. 3626. The phased increases, the period of phasing, the rates which are not affected by the September 9, 1973, increase, as well as a summary of the applicable authority and procedures, were set forth in a notice in part II of the FEDERAL REGISTER of July 1, 1972 (37 FR 13148-50). The rates which will be placed in effect on September 9, 1973, are shown under Year "2" in schedules 1 through 7, except that the rates for regular rate third-class mail shall remain as provided in schedule "D" of said notice, pending congressional action on appropriations for fiscal year 1974

Concurrently, surface postage rates and fees on international mail, consisting of books and sheet music, will be put in effect as follows:

(a) Argentina, Bolivia, Brazil, Canada, Chile, Colombia, Costa Rica, Cuba, Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Republic of Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, and Venezuela

Pounds	Rate
1	200000
4	. 24
6	
0	0.000
10	. 90
111	1.08
12	1.08
Each additional 2 pounds or frac-	
tion *	60.18

(b) All other countries

Pour	ida									Rate
1	2012	-		1833	227	1000	-	 	HUD.	80.17
2	3000	200	324		000	9589				. 28
4										. 48
6	1007									. 72
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1-1-1					_			 		1000
										1,20
11 .			-					 		1,44

¹ Eleven pounds is maximum weight limit to Canada.

*Weight limits in section 223.2, Publica-

tion 42, apply.

Charge 24 cents for each additional 2 pounds or fraction on packages weighing over 10 and up to 22 pounds, destined for Spain and Spanish possession.

(39 U.S.C. 101(d), 401, 403, 404, 3621, 3628, 3627.)

ROGER P. CRAIG, Deputy General Counsel.

AUGUST 31, 1973.

[FR Doc.73-18934 Filed 9-4-73;10:35 am]

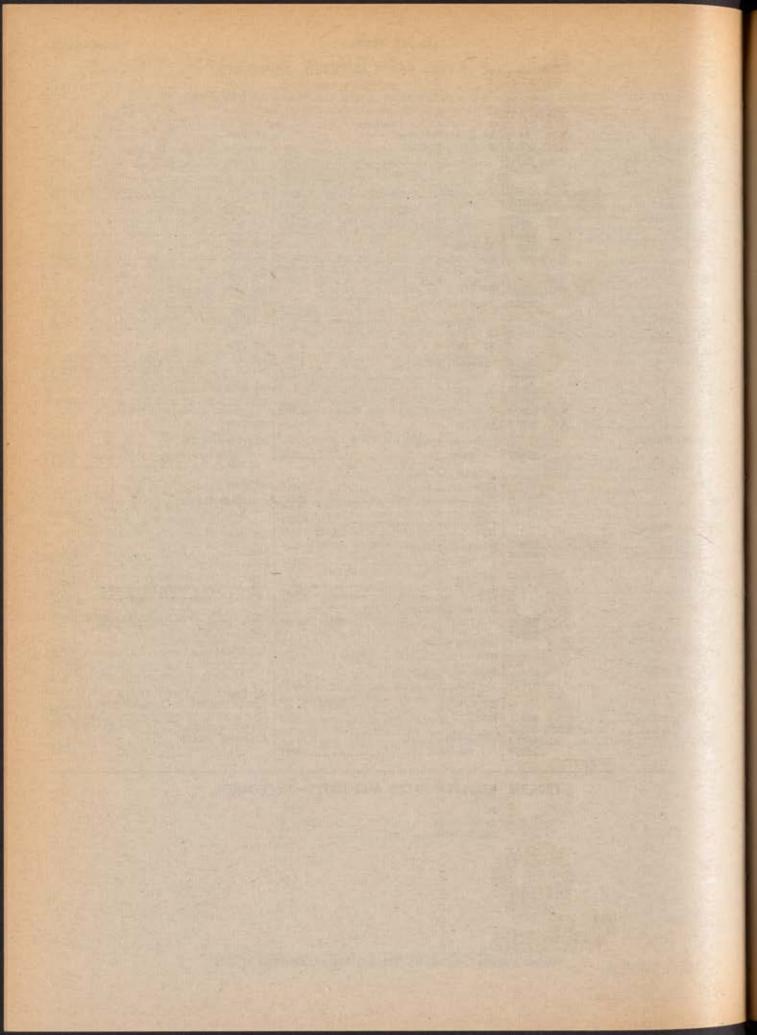
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WEDNESDAY, SEPTEMBER 5, 1973 WASHINGTON, D.C.

Volume 38 ■ Number 171

PART II



INTERIM
COMPLIANCE
PANEL (COAL
MINE HEALTH
AND SAFETY)

STANDARD NONCOMPLIANCE
PERMITS

Nongassy Underground Coal Mines
Above Watertable

INTERIM COMPLIANCE PANEL (COAL MINE HEALTH AND SAFETY) [30 CFR Part 504]

ELECTRIC FACE EQUIPMENT STANDARD NONCOMPLIANCE PERMITS

Nongassy Underground Coal Mines Above the Watertable

Notice is hereby given that the Interim Compliance Panel, established by section 5 of the Federal Coal Mine Health and Safety Act of 1969 (30 U.S.C. 804), proposes to issue regulations as a part of Chapter V in Title 30, Code of Federal Regulations. Such proposed regulations are identified as Part 504, and they set forth the procedure for obtaining permits for noncompliance with the electric face equipment standard as prescribed in the Act.

The Federal Coal Mine Health and Safety Act of 1969, at 30 U.S.C. 865(a) (2), provides that, commencing March 1974, the electric face equipment standard shall apply to those underground coal mines which: (1) are operated entirely in coal seams located above the watertable; (2) were not classified as a gassy mine prior to March 30, 1970; and (3) were opened prior to December 30, 1969,

The Act also provides that the Interim Compliance Panel, on application filed no later than December 30, 1973, which application meets the requirements set forth in the Act, at 30 U.S.C. 865(a) (10) and in this Part 504 may issue a permit for noncompliance which will allow a coal mine operator to use nonpermissible electric face equipment in by the last open crosscut of a nongassy mine located above the watertable.

Procedures for requesting hearings on applications for noncompliance with the electric face equipment standard are specified in 30 CFR Part 505, as amended.

Interested persons may submit written comments, suggestions, or objections regarding the proposed regulations to the Interim Compliance Panel, Room 800, 1730 K Street NW., Washington, D.C. 20006, on or before Oct. 5, 1973.

Title 30 CFR Part 504 would read as

PART 504—PERMITS FOR NONCOMPLI-ANCE WITH THE ELECTRIC FACE EQUIPMENT STANDARD—NONGASSY UNDERGROUND COAL MINES ABOVE THE WATERTABLE

Sec. 504.1

Application of this Part 504

504.2 Definitions

504.3 Submitting Applications for Permits

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Processing of Applications 504.6 Issuance of Initial Permits

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504.8 Renewal of Permits

Additional Evidence

504.10 Public Hearings

AUTHORITY: Sec. 508, Public Law 91-173, 83 Stat, 803, 30 U.S.C. 957.

§ 504.1 Application of this Part 504.

This part applies to applications for permits for noncompliance submitted

in accordance with the provisions of section 305 of the Federal Coal Mine Health and Safety Act of 1969 (30 U.S.C. 865(a) (2) and (10)) and to requests for public hearings with respect to such applications. A permit for noncompliance may be issued to an operator only for electric face equipment used in an underground coal mine which: (1) is operated entirely in coal seams located above the watertable; (2) was not classified as a gassy mine prior to March 30, 1970; and was opened prior to December 30, 1969. However, no permit for noncompliance will be issued for any nonpermissible electric face equipment unless such equipment was being used by an operator in connection with the mining operations in the coal mine on March 30,

§ 504.2 Definitions.

As used in this part:

(a) "Act" means the Federal Coal Mine Health and Safety Act of 1969 (Public Law 91-173, 30 U.S.C. 801 through 960);

(b) "Panel" means the Interim Compliance Panel, an independent agency established by section 5 of the Act (30

U.S.C. 804); (c) "Application" means a request for a permit for noncompliance filed with the Panel in accordance with this Part

(d) "Operator" means any owner, lessee, or other person who operates, controls, or supervises a coal mine and who files an application with the Panel for a permit for noncompliance with the electrical equipment standard as set forth in section 305(a)(2) of the Act;

(e) "M.E.S.A." means the Mining Enforcement and Safety Administration, U.S. Department of the Interior;

(f) "Permissible" equipment means equipment which has been approved as permissible by the M.E.S.A.;

(g) "Electric face equipment" means: (1) Electrical equipment with an electrical rating exceeding 2,250 watts (3 horsepower) which is taken into or used inby the last open crosscut, and

(2) All electrical rock dusting equipment which is taken into or used inby

the last open crosscut;

(h) "Above the watertable," as it applies to a coal mine means that all of the coal seams of such a mine are located above the elevation of the surface of a river or a tributary of a river into which a local surface water system naturally drains: and

(i) "Permit" means an initial permit for noncompliance, or a rehewal thereof, issued by the Panel to an operator to use an item of nonpermissible electric face equipment inby the last open crosscut in connection with mining operations in the designated mine located above the watertable for the period of time specified in the permit.

§ 504.3 Submitting applications for permits.

(a) Application forms may be obtained upon request to the Interim Compliance Panel, Room 800, 1730 K Street NW., Washington, D.C. 20006.

(b) Each application shall contain the information specified herein and should be submitted on the form provided by the Panel. The original and one copy of each application shall be filed by mail or by personal delivery to the Interim Compliance Panel, Room 800, 1730 K Street NW., Washington, D.C. 20006. In order to meet the filing deadline established by the Act, applications must be received by the Panel no later than December 30. 1973, or bear a postmark date no later than December 30, 1973. Postage meter dates will not be accepted as verification of date of mailing.

(c) The accuracy of the information set forth in each application submitted shall be attested by the operator as evi-

denced by his signature.

(d) Prior to the time an application is mailed or delivered to the Panel, the operator or his agent shall post on the mine bulletin board a notice that an application is being filed and that a copy of the application is available at the mine office for inspection by any interested person during regular working hours. The notice shall remain posted until the operator is informed of the Panel's action on the application.

(e) A copy of each application re-ceived by the Panel will be available at the office of the Panel in Washington, D.C., for inspection by any person dur-

ing official working hours.

§ 504.4 Information required.

The operator shall include in his application each of the following items of information:

address, telephone (a) The name, number, and M.E.S.A. identification number of the mine in which the electric face equipment for which a permit is requested is being used;

(b) The name, address, and telephone

number of the operator;

(c) The name and address of a representative of the miners of such mine;

(d) A statement that notice of the application has been posted on the bulletin board of such mine;

(e) A statement that the mine has never been classified as gassy under any provision of Federal or State law;

(f) A statement that the mine is above the watertable:

(g) A statement that the mine was opened prior to December 30, 1969;

(h) A statement that the operator is unable to comply with the electric face equipment standard required by paragraph (2) of section 305(a) of the Act (30 U.S.C. 865(a)(2));

(i) A list of the nonpermissible electric face equipment for which a permit is requested, identified by type and manufacturer's serial number or other permanently marked identification number;

(j) A statement as to whether the item of equipment had ever been rated

as permissible; (k) A statement that the item of equipment was nonpermissible and was being used in connection with mining operations in the mine on March 30, 1970;

(1) A statement that this item of equipment is being used in connection with mining operations in the mine on the necessary to its determination, including,

date of this application;

(m) A statement that the electric rating of the equipment exceeds 2,250 watts (3 horsepower) or a statement that it is rock dusting equipment;

(n) A statement of the specific actions taken to achieve compliance with the electrical equipment requirement of the

Act since March 30, 1970; and

(o) A plan setting forth a schedule for achieving compliance for the item of equipment for which the permit is sought and describing the means and measures to be employed. This plan must contain information regarding one of the following:

(1) If the operator plans to replace the item of equipment for which a permit is requested with permissible equipment, he must furnish the name of the firm from which the replacement equipment will be obtained and the scheduled date of delivery. A copy of the contract or order must be submitted to satisfy

this requirement:

(2) If the operator plans to have the item of equipment for which a permit is requested converted to permissible condition, he must furnish the name of the firm which will perform the conversion and the scheduled completion date. A copy of the contract order must be submitted to satisfy this requirement; or

(3) If the operator plans to use his own employees to convert this item of equipment to permissible status, he must furnish a copy of each contract or order for component parts and materials, the scheduled dates when these materials will be delivered, and an estimated date when the conversion to permissible status will be completed.

§ 504.5 Processing of applications.

(a) All applications timely filed in accordance with the provisions of this part will be processed by the Panel in the order in which completed applications are received.

(b) When an application for a permit for noncompliance is received, the Panel shall cause to be published in the Federal Register a notice giving any interested person an opportunity to file with the Panel a request for a public hearing.

(c) On or before the 15th day after publication of notice in the Federal Register that an application has been accepted for consideration, any interested person may file pursuant to provisions of 30 CFR Part 505, as amended, a request for a public hearing.

(d) After public hearing, or after the expiration of the aforementioned 15-day period if no hearing has been requested, the Panel shall make its determination on the merits of the application and such additional evidence as the Panel deems

necessary to its determination, including, but not limited to, evidence in support of representations made in the application.

§ 504.6 Issuance of initial permits.

(a) If the Panel determines, after notice to all interested persons and an opportunity for a public hearing, that an application satisfies the provisions of §§ 504.3 and 504.4 of this part and that the applicant-operator, despite his diligent efforts, will be unable to comply with the electric face equipment standards of the Act, the Panel may issue to such an operator an initial permit for noncompliance.

(b) Each initial permit will be issued for the period specified by the Panel. Each permit will specify the individual item of equipment which the operator will be entitled to use in nonpermissible

status

(c) The initial permit and one copy will be mailed to the operator at the address specified in the application. A copy of the permit shall immediately be posted on the bulletin board of the affected mine by the operator or his agent.

(d) The Panel shall immediately mail a copy of any initial permit granted under this section to a representative of the miners of the mine to which it pertains, and to the public official or agency of the State charged with administering State laws relating to coal mine health and safety in such mine.

§ 504.7 Applications for renewal of permits.

- (a) To be considered by the Panel, every application for renewal of a permit
- (1) Be filed with the Panel not more than 90 days nor less than 30 days prior to the expiration date of the permit in effect;
- (2) Be submitted on the form and in the manner prescribed in §§ 504.3 and 504.4;
- (3) Specifically set forth the actions which have been taken to achieve compliance since the date of filing the previous application; and

(4) Include a detailed schedule for achieving compliance by replacement of such nonpermissible equipment with permissible equipment or by conversion of such nonperimssible equipment to permissible status.

(b) When an application for renewal of a permit for noncompliance is received, the Panel shall cause to be published in the Federal Register a notice giving any interested person an opportunity to file with the Panel a request for a public hearing. (c) On or before the 15th day after publication of notice in the Federal Register that an application for renewal has been accepted for consideration, any interested person may file a request for a public hearing.

(d) After public hearing, or after the expiration of the 15-day period if no hearing has been requested, the Panel shall make its determination on the merits of the application for a renewal.

§ 504.8 Renewal of permits.

(a) If the Panel determines after notice to all interested persons and an opportunity for a public hearing that the renewal application satisfies the provisions of § 504.7 of this part and that the applicant-operator, despite his diligent efforts, will be unable to comply with the electric face equipment standard of the Act, the Panel may issue to such an operator a renewal permit for noncompliance.

(b) Each renewal permit will be issued for the period specified by the Panel. The period of noncompliance authorized by the permit shall not extend beyond March 30, 1976. Each permit will specify the individual item of equipment which the operator will be entitled to use in a

nonpermissible status.

(c) The renewal permit and one copy will be mailed to the operator at the address specified in the application. A copy of the permit shall immediately be posted on the bulletin board of the affected mine by the operator or his agent.

(d) The Panel shall immediately mall a copy of any renewal permit granted under this section to a representative of the miners of the mine to which it pertains, and to the public official or agency of the State charged with administering State laws relating to coal mine health and safety in such mine.

§ 504.9 Additional evidence.

Each operator shall, upon request by the Panel, submit such additional information as the Panel considers necessary to make its determination, including, but not limited to, evidence in support of representations made in connection with the application.

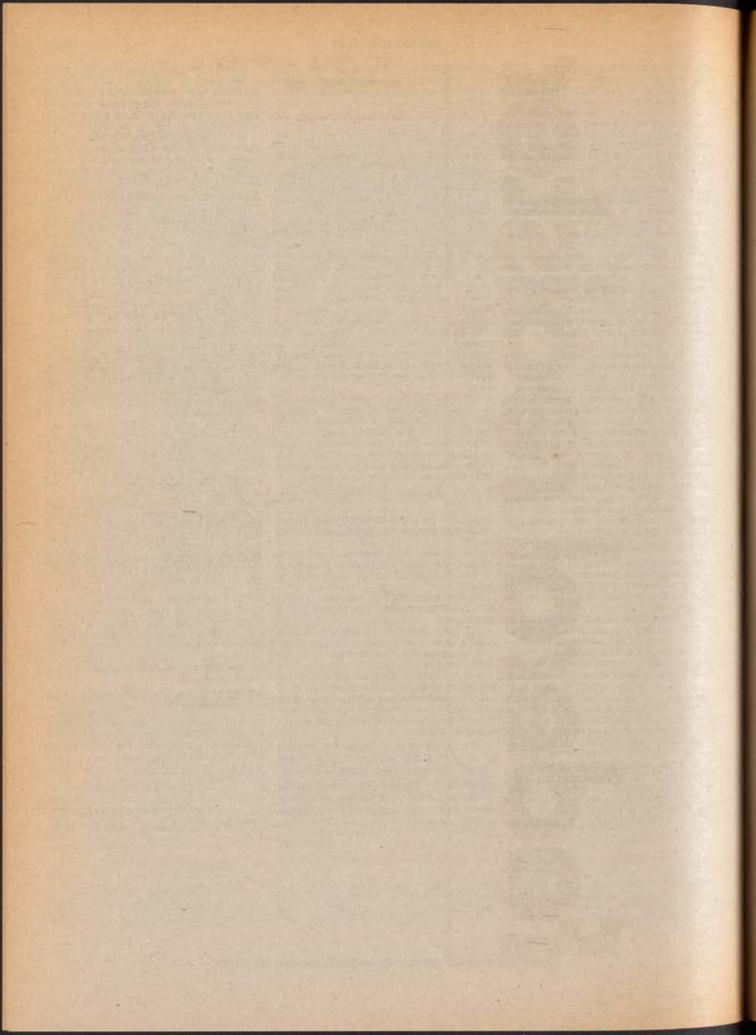
§ 504.10 Public hearings—practice and procedure.

Public hearings will be conducted pursuant to the Panel's regulation governing practice and procedure for hearings, 30 CFR Part 505, as amended.

Dated August 28, 1973.

GEORGE A. HORNBECK, Chairman, Interim Compliance Panel,

[FR Doc.73-18539 Filed 9-4-73;8:45 am]



WEDNESDAY, SEPTEMBER 5, 1973 WASHINGTON, D.C.

Volume 38 ■ Number 171

PART III



SMALL BUSINESS ADMINISTRATION

SMALL BUSINESS
INVESTMENT
COMPANIES

Proposed Rulemaking

SMALL BUSINESS ADMINISTRATION [13 CFR Part 107]

SMALL BUSINESS INVESTMENT COMPANIES

Notice of Proposed Rulemaking

Notice is hereby given that pursuant to authority contained in section 308 of the Small Business Investment Act of 1958 (SBI Act), Public Law 85-699, 72 Stat. 694, as amended, it is proposed to revise, as set forth below, Part 107 of Chapter 1, Title 13, of the Code of Federal Regulations (revised as of January 1, 1973).

Prior to final adoption of such revision, consideration will be given to any comments, with certain exceptions outlined below under the caption "1972 Amendments." Such comments should be submitted in writing, in triplicate, to the Investment Division, Small Business Administration (SBA), Washington, D.C. 20416, on or before October 5, 1973.

Information.—In addition to restating the subject matter of Revision 4, Part 107, of Chapter 1, Title 13, of the Code of Federal Regulations, revised as of January 1, 1973, and amended in 38 FR 17827 (July 5, 1973), the proposed Revision 5 would (1) relax or repeal certain provisions no longer found necessary and (2) abridge and extensively revise the

remaining provisions.

1972 amendments .- Regulations to implement the Small Business Investment Act Amendments of 1972 (Public Law 92-595, approved October 27, 1972, 86 Stat. 1314), hereafter called the "1972 Amendments" insofar as they deal with investments in Disadvantaged Concerns, were promulgated on July 5, 1973, as Amendment 12 to Revision 4 presently in force, 38 FR 17827. These regulations added to or amended § 107.3 [Definitions of the terms "Debtor Licensee", "Leverage", "Minority Enterprise Small Business Investment Company (MESBIC)" "Section 301(d) Licensee"1: and § 107.101(d) (2) [Nonprivate Funds for section 301(d) Licensees]; § 107.202(a) and (c) [Leverage in Excess of 200 Percent]; § 107.203(a) [SBA Purchase, Sale, or Guaranty of Securities Evidencing Leverage; Events of Default]; § 107.204 [Collection or Compromise of SBA Claims]; § 107.205 [Leverage for Section 301(d) Licensees1; § 107.702 [Common Controll; § 107.805 [Consideration for Issuance of Licensee Securities1; § 107.813 [Section 301(d) Licensee Wholly or Partly Owned by Licensee Companies]; and § 107.1001(b) [Financing Licensees). An explanation of these regulations was contained in the notice of proposed rulemaking preceding promulgation, published on February 15, 1973, 38 FR 4518, and in the information part of the promulgation itself, 38 FR 17827. In the proposed revision, these same regulations (except for the definition of "MESBIC") appear in modified form, but it is not intended to change their substance. Accordingly, and since these regulations were recently adopted after an extended comment period, 38 FR 7577, no comments are invited con-

cerning such substance, but comments on possible inadvertent changes of substance from the text recently promulgated are invited, as are comments on all regulations not specified above.

General summary of proposed amendments.—Proposed Revision 5 is entirely rewritten, except that the numbering system of Revision 4 has been substantially retained. Changes in captions and text, unless otherwise noted, are not intended to affect the thrust of the regulations, but have been made for clarity and brevity. It would be impractical to list all changes; however, the following changes of substance are noted.

(1) The Audit and Examination Guide for Small Business Investment Com-panies, Instructions for Preparation of the Financial Report (SBA Form 468), and SBA's System of Account Classifications, heretofore published as Appendixes 1 and 2 of Part 107 and as Part 111 of SBA Rules and Regulations, respectively, would hereafter be separately printed and distributed by SBA to all Licensees. Copies may also be obtained from SBA. Sections 107.1 (Scope of Part 107): 107.2 (Information, Forms, and Instructions); 107.1102(a) (Records); (Documents Filed With 107 1102(d) SEC); 107.1102(e) (Financial Reports to SBA); and 107.1104 (Fidelity Insurance), which refer to SBA's Audit Guide, etc., would be amended to conform to this procedural change.

(2) Liberalizing changes.—Section 107.101(c) would be amended to eliminate the "one-third rule," which requires no more than one-third of a Licensee's Portfolio to consist of investments in concerns classified under any single Major Group of the SIC Manual except for Real Estate Investments.

Section 107.102 would be amended so that the required \$500 Licensee fee need not accompany the license application.

The proposed amendment to § 107.103 deletes the requirement that public notice of a license application include "Agent for Correspondence." Section 107.1002, which made "capital impairment" a regulatory violation, would be repealed. Instead, the description of capital impairment would be shifted to new § 107.203(d), and failure to notify SBA promptly and to cure such impairment within ninety days would become an event of default under debentures held or guaranteed by SBA. Under § 107.1008(a), "nonperformance of any of the requirements of any debenture * * or of any written agreement with SBA * * " will still constitute a violation of Part 107.

Under a new proviso to § 107.301(e), purchases from an underwriter in a public offering would be exempted from the requirement that Licensee keep on file a completed Size Status Declaration and a nondiscrimination certificate of the portfolio concern. Instead, a prospectus showing its size status may be retained on file.

Section 107.301(f) would be repealed, thereby eliminating the requirement that Licensees furnish Portfolio Con-

cerns with a closing statement and retain a copy for SBA examination.

Section 107.303 would permit the acquisition of options in a Small Concern

Under proposed § 107.501, guaranties may be issued to any creditor of a Small Concern, instead of only to banks and other lending institutions, as now. This broadened authority would be subject to certain conditions, which include a limitation of such guaranties to one hundred percent of Private Capital and a ten percent funded reserve. With the broadening of the SBICs' guaranty authority to encompass all lenders, the definition of "institutional lender" in § 107.3 would be deleted.

Proposed § 107.504 would govern all investments for less than five years, except for investments in Disadvantaged Concerns pursuant to § 107.301(a) which will continue to be permitted for a minimum period of thirty months, not to exceed half of the Portfolio. Such shortterm Financing would be permitted up to twenty percent of Private Capital (instead of "total adjusted assets") as a reasonable part of overall Financing, to protect an existing investment or finance an ownership change, and the same percentage limitation would also include purchases from a seller other than the issuer, including the underwriter of a primary public offering.

Section 107.601 Management Service provides for operating services to be per-

formed by SBICs.

Section 107.703, which requires any pledge of ten percent or more of a Licensee's capital stock to be reported to SBA within five days, would be amended to extend the filing period to

thirty days.

Section 107.809, dealing with the Investment Adviser of a Licensee, would be amended to permit Investment Advisers to perform certain management functions of an SBIC. The definition of Investment Adviser, centained in § 107.3, would also be expanded so that a Licensee may employ technical experts, either on a regular or occasional basis, to render advice or assistance on technical problems not necessarily related to the management of portfolio securities, such as feasibility, marketing, and other technical studies.

Revised § 107.812 would liberalize SBIC authority to finance changes of ownership of Small Concerns. At present, Licensees are allowed to furnish Financing for that purpose only where necessary to the growth or preservation of a Small Concern, or when it would facilitate business ownership by Disadvantaged Persons. New \$ 107.812 would follow the pattern of § 120.2(c)(2) governing direct SBA loans to facilitate changes of ownership, broaden the Licensee's latitude so that it may henceforth finance ownership changes that inure generally to the benefit of the Small Concern, assist in the creation of a Small Concern through corporate divestiture, or facilitate business ownership by Disadvantaged Persons. Section 107.504(b) (1) makes clear that short-term Financing for ownership change is also permitted within stated limits.

Section 107.901 has been amended to include an interpretation that options and warrants not as yet exercised will not be exclusively considered in determining presumption of Control.

Section 107.1001(a) would prohibit reinvestment financing only where the primary business activity of the Small Concern involves reinvestment. At present such Financing—except for Venture Capital Financing of certain Disadvantaged Concerns—is barred where any part of the Small Concern's activities involves reinvestment.

Section 107.1001(c) would be amended to consolidate present § 107.1001 (c) and (h), and would prohibit Financing of real estate concerns classified under SIC Manual Major Group 65 (with three exceptions-the fourth, for operative builders, is no longer needed as the current issue of the SIC Manual has reclassified that industry under Major Group 15), but would permit, as exceptional transactions, real estate acquisitions to be held without prompt and substantial improvement where an unforeseen adverse change makes such improvement impractical. The burden would be on the SBIC to demonstrate such adverse change.

Section 107.1001(e) would be amended to permit foreign investment to facilitate domestic, or foreign branch, operations.

Section 107.1001(h) would replace present § 107.1001(i) and conform to to § 120.2(d) (10), governing SBA's own financing of Agricultural enterprises.

Section 107.1004(c) would eliminate the prior approval requirement for joint Financing between a Licensee and its Associates. Instead, the SBIC would have to demonstrate that the terms of its investment are at least as favorable as those of the Associate's. Absent such equivalence, joint Financing would remain barred under § 107.1004(a) which prohibits self dealing in general.

The so-called "watch dog provision" of \$107.1004(f), permitting a Licensee to appoint a director or other representative to serve on the management of a Portfolio Concern in order to protect its investment, would be amended to change the introductory words "Nothing herein contained", to read, "Nothing contained in these regulations". A "watch dog" representative may be selected to protect an existing investment, notwithstanding the provisions of \$107.1004 (Conflicts of Interest) or other provisions of the SBIC regulations.

Existing § 107.1102(f), which requires Licensees to file Program Evaluation Reports, based on data obtained from Portfolio Concerns, is to be repealed.

Proposed § 107.1102(f) (Litigation Reports, formerly § 107.1102(g)) would exempt ordinary collection actions from the present reporting requirement of all litigation by or against Licensees.

Section 107.1102(g) [formerly § 107.-1102(f)], as amended, would provide that Licensees may be required by SBA

in writing to file, in addition to annual Financial Reports, other special reports. For example, a written directive may be issued in the form of a Policy and Procedural Release calling upon Licensees to endeavor to submit to SBA, data similar to those formerly included in the Program Evaluation Reports.

Section 107.1103, as amended, would (1) delete the provisions with respect to imprest checking accounts and (2) authorize one bonded officer to sign checks up to \$1,000 each.

Section 107.1104, as amended, would simplify existing fidelity insurance requirements so that surety bond coverage in an amount of \$25,000 would suffice.

Section 107.1105(a), amended, would (1) reduce the number of postlicensing reports (change of corporate name, address, telephone number, officers and directors, or a capital increase. Capital decreases require prior SBA approval under § 107.902) and (2) permit such report to be made within ninety days after the close of the fiscal year, instead of thirty days after the event, as now.

(3) Other changes.—Extensive textual changes have been made to clarify and simplify the regulations, and cross-references between related sections have been added.

The term "MESBICs" (Minority Enterprise Small Business Investment Companies) will no longer be used, and "section 301(d) Licensee" will be substituted to denote special-purpose Licensees with an investment policy limited to the Assistance of Disadvantaged Concerns. References to MESBICs throughout the SBIC Regulations would be changed to "section 301(d) Licensees." Sections of particular interest to section 301(d) Licensees include §§ 107.3, the definition "Associate" paragraph (h); the definition of section 301(d) Licensee: 107.101(c) relating to diversification and real estate in subparagraphs (2) and (3); 107.101(d)(2) relating to nonprivate funds; 107.201(a)(2) relating to applications for Leverage; 107.202(a) relating to third-dollar Leverage; 107.203(c) relating to default on a debenture: 107 .-203(d) relating to capital impairment; 107.205 relating to leverage for section 301(d) Licensees; 107.301(d) relating to the investment limit, the proviso to 107.805(a) relating to consideration for section 301(d) stock; 107.813 relating to section 301(d) Licensee ownership by other SBICs; 107.1001(g) relating to an associated supplier; and 107.1101(a) relating to examination fees.

The term "Financing" has been defined to include guaranties and commitments pursuant to §§ 107.501 and 107.503, and thus subjects such deferred Financings to the same general rules as apply to immediate Financings, except for the rules governing options (§ 107.303).

With the expiration of the transitional period prescribed by the 1967 Amendments during which old section 302 debentures were treated as part of paid-in capital and paid-in surplus, paragraph (c) (2) of § 107.301 can be deleted as moot.

Section 107.1005, which prohibits the sale of Portfolio securities to Associate of a Licensee or competitors of the Small Concern, unless an SBA exemption is granted, would be extended to the disposal of other SBIC assets (including assets in liquidation), better to achieve the purpose of the present regulations.

Section 107.1102 would be amended to provide that SBIC books of account and other records are to be maintained in accordance with the guidelines set forth in SBA's System of Account Classifications. The System of Account Classifications has heretofore been published as Part 111 of SBA's Regulations, but henceforth would be separately printed and distributed by SBA to all Licensees. This would make it possible for textual changes to be made and distributed more expeditiously to all Licensees, without formal rule making procedures. Section 107,1102(b)(4), which authorizes the microfilming of SBIC records is being revised along the lines of Regulation 270.31a-2(f) recently adopted by the Securities and Exchange Commission (38 FR 7796, March 26, 1973), to permit microfilming without retention of the original hard cover record. Also, minor amendments are being made to paragraphs (d) and (é) of § 107.1102 to provide for annual financial reports to be filed on SBA Form 468, in accordance with the guidelines in SBA's Audit Guide for Small Business Investment Companies, and Instructions for Preparation of the Financial Report, SBA Form 468. The Audit Guide (heretofore called "Audit and Examination Guide") and the Instructions were published as Appendixes 1 and 2 of Part 107, Revision 4. They will henceforth be separately printed and distributed by SBA to all Licensees

The savings clause in § 107.1302 would be restated, to provide that the legality of transactions executed in accordance with existing provisions shall be governed thereby, and shall not be adversely affected by subsequent regulatory changes or amendments.

Interpretations.—The interpretations set forth in §§ 107.1401 to 107.1411 are not being carried over into Revision 5. SBA will discontinue publishing interpretations as part of the SBIC Regulations but will henceforth publish from time to time interpretations and policy statements of general interest as notices in the Federal Register.

Dated August 29, 1973.

THOMAS S. KLEPPE, Administrator.

PART 107—SMALL BUSINESS INVESTMENT COMPANIES

REGULATIONS

Sec. 107.1 Scope of Part 107. 107.2 Information, form

107.3

Information, forms, and instructions.

DEFINITIONS
Defintion of terms,

OPERATIONAL REQUIREMENTS
107.101 Operation requirements.

PROPOSED RULES

	License	Sec.	(e) Any close relative of any person
Sec.	LIVENDS	107.1007 No Government sponsorship.	described in paragraphs (a) and (b) of
107.102	License application.	107.1008 Violations based on false filings	this section; or
107.103	Public notice.	and nonperformance of agree-	(f) Any person in which (1) any per-
107.104	Transferability of license. Surrender of license.	ments with SBA.	son described in paragraphs (a) through
107.105		Examinations, Accounts, Records and Reports	(e) of this section is an officer or director
	BORROWING BY LICENSEE		or (2) any such person (or group of two
107.201	Funds to Licensee.	107.1101 Examination fees. 107.1102 Records and reports.	or more such persons acting in concert)
107.202	Leverage in excess of two hundred	107.1103 Internal control.	owns or Controls, directly or indirectly,
*07.000	percent.	107.1104 Pidelity insurance.	a ten or more percent equity interest
107.203	SBA purchase, sale or guaranty of securities evidencing Leverage;	107.1105 Reporting changes not subject to	(exclusive of any interest attributable
	events of default.	SBA approval.	solely to ownership of equity interest in the Licensee).
107.204	Collection or compromise of SBA	COMPLIANCE	(g) For the purposes of this definition,
SERVICE S	claims.	107.1201 [Reserved]	any person in any of the relationships de-
107.205	Leverage for section 301(d) Li-	107.1202 [Reserved]	scribed in paragraphs (a) through (f)
	censee.	107.1203 Exemption from civil penalty.	of this section within six months before
	NANCING OF SMALL CONCERNS	EXEMPTIONS	or after the date on which the Licensee
	Y CAPITAL FINANCING, LONG-TERM GUARANTIES, AND COMMITMENTS)	107.1301 Exemptions.	provided Assistance, shall be deemed to
200000000		107.1302 Savings clause.	have been in such relationship as of the
107,301	General.	§ 107.1 Scope of Part 107.	date of the Licensee's Assistance.
	EQUITY CAPITAL	The regulations in this part implement	(h) A section 301(d) Licensee and a
107.302	Equity capital.	the Small Business Investment Act of	participant Licensee owning stock
107.303	Stock options and conversion	1958, as amended. All Licensees, including	thereof pursuant to § 107.813, as well as
- NEW STREET	rights.	section 301(d) Licensees, must comply	Associates of such section 301(d) Licen-
107.304	Refinancing; first refusal on new indebtedness.	with all applicable regulations, SBA's	see and such participant Licensee, shall
	4	Audit Guide for Small Business Invest-	be deemed Associates of each other.
	LONG-TERM LOANS	ment Companies, and System of Ac-	Close relative.—"Close relative" means
107.401	Provisions applicable to long-term	count Classifications, set forth guidelines	ancestor, lineal descendant, brother or
	loans,	to be followed by all Licensees.1	sister and lineal descendants of either, spouse, father-in-law, mother-in-law,
0	UARANTIES AND COMMITMENTS	§ 107.2 Information, forms, and in-	son-in-law, brother-in-law, daughter-in-
107.501	SBIC guaranty of loans.	structions.	law, or sister-in-law.
107.502	[Reserved]	All references in this Part to SBA	Control.—"Control" means the posses-
107.503	Commitments.	forms, and instructions for their prepara-	sion, direct or indirect, of the power to
107.504	Other permissible Financing.	tion, are to the current issue of such	direct or cause the direction of the man-
	MANAGEMENT SERVICES	forms. The forms have been filed with the	agement and policies of a Licensee or a
107.601	Management services.	Office of the Federal Register with the	Small Concern whether through the own-
	CONTROL OF LICENSEE	original document. Copies may be ob-	ership of voting securities, by contract,
*******		tained from SBA.	or otherwise.
107.701	Changes in ownership or control of Licensee.	DEFINITIONS	Debtor Licensee.—"Debtor Licensee"
107.702	Common control.	§ 107.3 Definition of terms.	means a Licensee which has leverage from SBA.
107.703	Pledge of Licensee's shares.	Act "Act" means the Small Business	Disadvantaged concern.—"Disadvan-
	LAWFUL OPERATIONS	Investment Act of 1958, as amended.	taged Concern" means a Small Concern
107.801	Amendments to Act and regula-	Assistance "Assistance" or "As-	owned by a person or persons whose par-
107.001	tions.	sisted" means financing of or manage-	ticipation in the free enterprise system
107.802	Other laws.	ment services rendered to a Small Con-	is hampered because of social or eco-
107.803	Operations under Act.	cern by a Licensee pursuant to the Act	nomic disadvantages,
107.804	[Reserved] Consideration for issuance of Li-	and these regulations.	Financing.—"Financing" or "Fi-
107.805	censee's securities.	Associate of a Licensee.—"Associate of	nanced" means outstanding financial as-
107.806	Retention of investments.	a Licensee" means:	sistance provided to a Small Concern
107.807	Purchases of securities from an-	(a) An officer, director, manager,	by a Licensee, whether through loans,
107 000	other Licensee.	agent, or Investment Advisor of such Licensee, or any person regularly serving	guaranties, equity investments or com-
107.808	Idle funds. Investment Adviser/Manager.	such Licensee in the capacity of at-	Investment Adviser/Manager.—"In-
107.810	Assets in liquidation.	torney at law; or	vestment Adviser/Manager" of a Licensee
107.811	Additional investment by bank.	(b) Any person owning or controlling,	means, non-licensee person who pur-
107.812	Pinancing changes of ownership.	directly or indirectly, ten or more per-	suant to written contract executed in ac-
107,813	Section 301(d) Licensee wholly or	cent of any class of stock of such	cordance with the provisions of § 107.809,
	partly owned by Licensee com-	Licensee; or	on a continuing basis furnishes advice
	panies.	(c) Any officer, director, partner, man-	and/or assistance with respect to the
	RESTRICTED ACTIVITIES	ager, agent, employer, or employee of	portfolio operations of a Licensee.
107.901	Control of small concern.	any person described in paragraphs (a)	Leverage.—'Leverage' means financial
107.902	Voluntary capital decrease.	and (b) of this section; or (d) Any person which directly or indi-	assistance provided to a Licensee by SBA, either through the purchase or guaranty
107.903	Mergers, consolidations, and reor-	rectly controls or is controlled by, or is	of debentures, or through the purchase of
	ganizations.	under common control with, a Licensee	preferred securities (see §§ 107.201 to
	PROHIBITIONS	or any person described in paragraphs	107.205).
107,1001	Prohibited uses of funds.	(a) and (b) of this section; or	1940 Act Company "1940 Act Com-
107.1002	[Reserved]	The state of the s	pany" means a Licensee which is reg-
	Inactive Licensees.	SBA's Audit Guide, System of Account	istered under the Investment Company
	Conflicts of interest.	Classification, and Instructions for Prepara-	Act of 1940.
	Disposition of assets to Licensee's	tion of the Financial Report, SBA Form 468, are separately printed, and distributed by	Person.—"Person" means a natural
	Associates or to competitors of	SBA to all Licensees. Copies may be obtained	person or legal entity.
THE STREET	portfolio concern.	from SBA.	Portfolio.—"Portfolio" means the se-
107.1006	[Reserved]	Defined terms are capitalized hereafter.	curities representing a Licensee's total

outstanding Financings of Small Concerns. It does not include idle funds or assets in liquidation.

Portfolio concern,-"Portfolio concern" means a Small Concern Assisted

by a Licensee.

Private capital,-"Private Capital" means the combined private paid-in capital and paid-in surplus of a Licensee. and does not include preferred capital provided by SBA, or borrowed funds.

Real estate investment .- "Real Estate Investment" means a Licensee's financing of a Small Concern which is classified as a real estate concern under Industry numbers 6531, 6541 and 6552 of the SIC Manual, For restrictions governing Real Estate Investments, see §§ 107.101(c)

and 107.1001(c).

SBA.—"SBA" means the Small Business Administration, 1441 L Street NW.,

Washington, D.C. 20416.

Section 301(d) Licensee .- "Section 301 (d) Licensee" means a Licensee organized under a State business or nonprofit corporation statute, and licensed pursuant to section 301(d) of the Act, the investment policy of which is limited to making investments solely in Small Concerns which will contribute to a wellbalanced national economy by facilitating ownership in such concerns by persons whose participation in the free enterprise system is hampered because of social or economic disadvantages.

"Short-term financing .- "Short-term financing" means Financing for a term of less than five years in accordance with

the regulations.

SIC Manual.—"SIC Manual" means the latest issue of the Standard Industrial Classification Manual, prepared by the Office of Management and Budget, and available from the U.S. Government Printing Office."

Small concern.—"Small Concern" means a small-business concern as defined in section 103(5) of the Act (including affiliates as defined in § 121.3-2 of this chapter), which for purposes of size eligibility, meets the applicable criteria set forth in § 121.3-11 of Part 121 of this chapter.

OPERATIONAL REQUIREMENTS

§ 107.101 Operational requirements.

All Licensees shall comply with the following requirements:

- (a) Management.—Each Licensee shall have and maintain (including through contractual arrangements) qualified management in charge of its operations who will be available at its office to the public. A manager of a Licensee shall be deemed an officer.
- (b) Office.—The Licensee shall maintain a reasonably accessible office, which will display the license and the name of the Licensee and be open to the public during regular business hours.
- (c) Diversified investment policy-real estate.—Unless specifically authorized in writing by SBA:
- (1) General rules-No Licensee shall maintain more than one-third of its port-

folio, as of the close of any full fiscal year, in permitted Real Estate Investments. For further provisions governing Real Estate Investments, see § 107.1001(c).

- (2) Licensees other than real estate specialist.-Where a Licensee does not operate as an approved real estate specialist subject to paragraph (c) (3) of this section, its investments in Small Concerns classified under Major Groups 15, 65 and/or 70 of the SIC Manual shall not exceed one-third of its Portfolio in any one such Major Group nor twothirds for any combination of such Major Groups, as of the close of any full fiscal year: Provided, however, That subject to paragraph (c) (1) of this Section, the foregoing shall not apply to a section 301(d) Licensee.
- (3) Real estate specialists.-Where a Licensee maintains more than one-third of its Portfolio in Real Estate Investments pursuant to an investment policy approved by SBA, the total of its investments in Small Concerns classified under Major Group 15 (Building Construc-tion—General Contractors) and Major Group 70 (Hotels, Rooming Houses, Camps and Other Lodging Places) of the SIC Manual shall not exceed twenty percent of its Portfolio as of the close of any full fiscal year: Provided, however, That this limitation shall not apply to a section 301(d) Licensee.
- (4) Prepayments.-Prepayments of outstanding Financing or similar events occurring beyond the control of the Licensee, within the fiscal year, shall be disregarded in determining whether the Licensee meets the foregoing requirements as of the close of its fiscal year.

(d) Minimum capital.—(1) General.— Every Licensee shall have:

(i) Private Capital of at least \$150,000;

- (ii) Taking additional resources into account, adequate to assure a reasonable prospect that it will be operated soundly and profitably, and managed actively and prudently in accordance with the Act and regulations.
- (2) Nonprivate funds for section 301 (d) Licensees .- (i) A section 301(d) Licensee may include nonprivate funds (e.g. funds granted under Title VII of the Economic Opportunity Act of 1964, as amended) in its Private Capital for purposes of sections 302(a), 303(c) and 306 of the Act: Provided, however, That the minimum capital of \$150,000 specified by section 302(a)(1) of the Act may not include nonprivate funds, and that for leverage purposes nonprivate funds will be included in Private Capital only to the extent that private funds totaling at least ten percent of the nonprivate funds are also included. The limitation of the foregoing proviso shall not apply to nonprivate funds received by or irrevocably committed to a section 301(d) Licensee before July 5, 1973.
- (ii) For purposes of this paragraph (d) (2), "nonprivate funds" shall mean funds obtained, directly or indirectly, from another agency or department of the Federal Government or from any State, or subdivision thereof, except as limited by P.L. 92-512 (commonly known

as the General Revenue Sharing Act) and regulations of the Treasury Department, 31 CFR Part 51, 38 FR 9132 (1973). As used herein, "State" shall mean the several states, the territories and possessions of the United States, the Commonwealth of Puerto Rico and the District of Columbia.

Borrowed funds.-Shareholders (e) owning ten or more percent of any class of Licensee's stock may not use borrowed funds in purchasing said stock, unless the net worth of such shareholders is at least twice the amount borrowed.

LICENSE

§ 107.102 License application.

The license application shall be submitted on SBA Form 415 in accordance with accompanying instructions. A li-censee fee of \$500 shall be paid to SBA.

§ 107.103 Public notice.

SBA shall publish notice of the license application in the FEDERAL REGISTER. It shall include such appropriate information as the name and location of the proposed Licensee, its areas of operation, the names and addresses of its officers, directors, and owners of ten or more percent of its voting stock; and shall provide an opportunity for the submission of written comments. The proposed Licensee shall publish a similar notice in a newspaper of general circulation in the city or proposed areas of operation, and a certified copy shall be furnished to SBA within ten days.

§ 107.104 Transferability of license.

A license shall not be transferred in any manner without SBA's prior written approval.

§ 107.105 Surrender of license.

A Licensee shall not surrender its license without SBA's prior written approval. Request for approval shall be accompanied by an offer of immediate payment of all moneys owing to SBA, or by a plan satisfactory to SBA for the orderly liquidation thereof. Upon receipt of Licensee's request, SBA may remove Licensee's name from published lists of Licensees, and conduct an examination of its affairs.

BORROWING BY LICENSEE

§ 107.201 Funds to licensee.

- (a) Application procedure.—(1) Licensees other than section 301(d) licensees .- A Licensee (other than a section 301(d) Licensee) may apply for Leverage pursuant to Section 303(b) of the Act on SBA Form 416 (for purchase) or SBA Form 1022 (for guaranty), in accordance with accompanying instructions.
- (2) Section 301(d) Licensees .- A section 301(d) Licensee may apply for Leverage pursuant to section 303(c) of the Act on SBA Form 1022A (for purchase

As of the effective date of this Revision 5, the latest issue of the SBIC Manual was 1972.

^{*}Section 303(c) of the Act authorizes SBA to purchase nonvoting preferred securities, and to purchase or guarantee debentures issued by section 301(d) Licensees, which may be subordinated in accordance with section . 303(b) of the Act.

of preferred securities and debentures) on SBA Form 1022B (for exchange of debentures for preferred securities), or on SBA Form 1022 (for guaranty of debentures) in accordance with accompanying instructions. Before providing Leverage in excess of one hundred percent of Private Capital, SBA may require the section 301(d) Licensee to demonstrate the need therefore to SBA's satisfaction.

(b) SBA Guaranty.-(1) SBA may in its discretion agree to guarantee a Licensee's debentures unconditionally, irrespective of the validity, regularity or enforceability of such debentures or any other circumstances which might constitute a legal or equitable discharge or defense of a guarantor and, pursuant to its guaranty, to make timely payments of principal and interest, irrespective of any default by the issuing Licensee or acceleration of the maturity thereof by SBA

(2) Persons interested in providing funds to Licensees under such guaranty may notify SBA by letter, certifying whether such lender has direct or indirect beneficial interest of ten or more percent of the actual or potential voting rights in any Licensee, or in any person directly or indirectly controlling, controlled by or under common control with, any Licensee. Such certification will not be required from lenders whose borrowers will be selected or approved by SBA or its agents. SBA will endeavor to match such offers with applications pursuant to paragraph (a) of this section but cannot assure that such offers will be accepted. SBA in its discretion may also arrange for public or private financings under its guaranty authority.

(3) No SBA guaranty shall be extended to a lender:

(i) Having a direct or indirect beneficial interest of ten or more percent of the actual or potential voting rights in the Licensee to be guaranteed, or in any person directly or indirectly controlling, controlled by, or under common control with, such Licensee; or

(ii) Having such interest involving another Licensee which has received or is about to receive pursuant to any understanding, agreement cross-dealing, reciprocal or circular arrangement any direct or indirect financing (or a commitment for financing) from another lender with SBA's guaranty. SBA may void any guaranty obtained in violation of this paragraph (b) (3), but the foregoing shall not apply to lenders whose borrowers are selected or approved by SBA or its agents.

§ 107.202 Leverage in excess of two hundred percent.

(a) In order to qualify for Leverage exceeding two hundred percent of Private Capital, at least sixty-five percent of the Licensee's total funds available for investment must be invested (or committed) in venture capital Financing of Small Concerns: Provided, however, That section 301(d) Licensees shall have thirty percent so invested.

(b) "Venture Capital Financing" shall mean:

(1) Common and preferred stock and equity securities as defined in § 107.302 (b) with no repurchase requirement for five years, except as may be specifically approved by SBA under § 107.901 for purposes of relinquishing Control over a Small Concern.

(2) Any right to purchase such stock

or equity securities.

(3) Debentures on loans (whether or not convertible or having stock purchase rights) which are subordinated (together with security interests against the assets of the Small Concern) by their terms to all borrowings of the Small Concern, and having no part amortized during the first three years.

(c) The term "total funds available for investment" shall mean ninety percent of the sum of total short-term assets and total loans and investments of a Licensee to be set forth (in accordance with the Instructions for Preparation of the Financial Report, SBA Form 468) as Items 8 and 15, respectively, on page 1 of such Financial Report, submitted by such Licensee. Venture capital investments shall be valued on the same basis as Licensee's assets comprising its "total funds available for investment." Any financing carried as "Assets Acquired in Liquidation of Loans and Debt Securities" (Item 13) or "Amounts Due from Debtors on Sale of Assets Acquired in Liquidation of Loans and Debt Secu-

venture capital qualification. (d) The ratio prescribed by paragraph (a) of this section shall be maintained as of the end of each fiscal year: Provided, however, That, subject to SBA approval, a Licensee may temporarily maintain a lesser ratio. Approval may be granted in appropriate cases, such as prepayment of venture capital investments, raising of additional Private Capital, and Leverage recently provided.

rities" (Item 14) which originally quali-

fied as venture capital shall retain the

§ 107.203 SBA purchase, sale, or guaranty of securities evidencing leverage; events of default.

SBA may, upon such conditions and for such consideration as it deems reasonable, sell, assign, transfer, or otherwise dispose of any preferred security, debenture, or other security held in connection with Leverage. In such event and upon notice thereof by SBA, Licensee will make all payments of principal and of dividends or interest as shall be directed by SBA. Licensee shall hold SBA harmless from all damage or loss which SBA may sustain by reason of such disposal, limited, however, to the extent of Licensee's liability under such security, plus court costs and reasonable attorney's fees incurred by SBA.

(b) A Licensee issuing debentures pursuant to section 303(b) of the Act after the effective date of this regulation."

shall be deemed to have agreed to the following terms and conditions, as in effect at the time of such issuance and as if fully set forth in such debentures;

(1) Upon written notice by SBA, the entire indebtedness of the Licensee issued to, held or guaranteed by SBA may be declared immediately due and payable to SBA upon the happening of any one or more of the following events:

(i) Default in the payment of the principal or interest under any debenture, note or obligation of the Licensee, issued to, held or guarateed by SBA;

(ii) Nonperformance or violation by the Licensee, as determined by SBA, or any one or more of the terms and conditions of any loan or obligation of the Licensee, issued to, held or guaranteed by SBA, or of any agreement with or conditions imposed by SBA;

(iii) Failure of the Licensee, as determined by SBA, to comply with any one or more of the provisions of the Act or regulations promulgated thereunder, as they may be amended from time to time;

(iv) Failure of the Licensee to notify SBA within twenty days from the date of an event of default or nonperformance by the Licensee under any debenture, note or indebtedness of the Licensee issued to or held by anyone other than SBA

(2) The entire indebtedness of the Licensee issued to, held or guaranteed by SBA shall immediately become due and payable to SBA without notice, presentation or demand, whenever:

(i) Licensee is insolvent; or

(ii) Not having sufficient property to pay all of its debts, Licensee makes a voluntary assignment thereof; or

(iii) Licensee commits an act of bankruptcy as defined in 11 U.S.C. Section 21: or

(iv) A petition is filed in commencement of any bankruptcy or reorganization proceeding, receivership, dissolution or other similar creditors' rights proceeding, by or against the Licensee, whichever event shall first occur.

(3) Except with the prior written consent of SBA, Licensee will not:

(i) Repurchase or retire any of its capital stock; or

(ii) Make any distribution to its shareholders other than dividends out of retained earnings; or

(iii) Increase the salaries or other compensation of any officer, director, or employee beyond the amounts approved by SBA. In applying this provision, compensation to an officer, director or employee of a wholly owned corporation shall be deemed paid by Licensee.

(4) Except with the prior written consent of SBA, Licensee will not employ or tender any officer of employment to, or retain for professional services, for a period of two years after the date of the latest debenture issued by Licensee pursuant to section 303(b) of the Act, any person who on or within one year prior to said date:

(i) Shall have served as an officer, attorney, agent, or employee of SBA; and

(ii) As such, shall have occupied a

position or engaged in activities which

^{* § 107.203(}b) became effective as Amendment 9 to Revision 4 on May 2, 1972 (37 FR 8866).

SBA shall have determined involved discretion with respect to the granting of

Assistance under the Act.

(5) Any failure on the part of SBA at any time require the performance by Licensee of any one or more of the terms or provisions of any debt instrument of Licensee issued to, held, or guaranteed by SBA shall in no way affect SBA's right thereafter to enforce the same, nor shall the waiver by SBA of any term or provision of any debt instrument of Licensee issued to, held, or guar-anteed by SBA be taken or held to be a waiver of any succeeding breach of any such term or provision.

(6) If the Licensee fails to maintain either the capital requirement or the investment ratio requirement under section 303(b) (2) of the Act, and the regulations promulgated thereunder from time to time, then the aggregate amount of the outstanding indebtedness evi-denced by any debt instruments issued to, held, or guaranteed by SBA which exceeds the maximum amount permitted under section 303(b)(1) shall, upon written notice by SBA, be immediately due and payable to SBA. In the event of such acceleration of payment, SBA in its sole discretion shall determine which debenture instrument or instruments, or parts thereof, shall be subject

(7) The debentures hereafter issued by a Licensee pursuant to section 303(b) of the Act, and SBA's claims relating thereto, shall be subordinate to all other debts of the Licensee, but shall have priority over all classes of stock of the Licensee upon any dissolution, windingup, liquidation or reorganization of the Licensee, unless such debentures provide otherwise.

(c) Paragraph (b) of this section shall be applicable to section 301(d) Licensees obtaining Leverage pursuant to section 303(c) of the Act: Provided, however, That the capital and investment ratio requirements referred to in paragraph (b) (6) of this section shall be those prescribed by section 303(c) of the Act and § 107.202(a) thereunder.

(d) In addition to the events of default set forth in paragraph (b) (6), capital impairment occurring after [the effective date of Revision 51, shall also constitute an event of default if Licensee falls to give SBA prompt written notice as soon as it knows or should reasonably have known thereof, and if thereafter Licensee fails to cure the impairment within ninety days. In such event, SBA may, in its discretion, by written notice declare the entire indebtedness of the Licensee, issued to, held or guaranteed by SBA, immediately due and payable. Capital impairment shall be presumed when the retained earnings deficit of a section 301(d) Licensee exceeds one hundred percent, or that of any other Licensee exceeds fifty percent of Private Capital. Treasury stock shall not be considered as part of such Private Capital. The presumption of impairment may be rebutted by evidence satisfactory to SBA.

SBA may, upon such conditions and for such consideration as it deems reasonable, collect or compromise all claims relating to preferred securities or obligations held or guaranteed by SBA, and all legal or equitable rights accruing to it.

§ 107.205 Leverage for section 301(d) Licensees.

(a) Charter requirements.—SBA may, subject to the conditions prescribed in this paragraph, provide Leverage to a section 301(d) Licensee pursuant to application filed under § 107.201(a) (2). The following matters shall be appropriately provided for in the charter:

(1) Investment policy.-Statement of investment policy in conformity with section 301(d) of the Act. A section 301 (d) Licensee licensed before July 5, 1973, shall comply with this requirement no later than ninety days from such date.

(2) SBA's rights.—(i) Payment of dividends to SBA .- Subject to the sound discretion of the board of directors, SBA shall be paid from retained earnings an annual three percent dividend on the par value of its preferred securities. Such dividends shall be payable before any amount shall be set aside or paid to any other class of stock, and shall be preferred and cumulative so that, in the event that SBA has received less than three percent in any fiscal year, such dividends shall be payable on a preferred basis from subsequent retained earnings without interest thereon. Before a declaration of dividends or any other kind of distribution (other than to SBA), SBA in its discretion may also require the preferred payment of the difference (irrespective of retained earnings) between dividends paid on its preferred securities, and cumulative dividends payable at a rate equal to the interest rate determined at the time of SBA's purchase of such preferred securities pursuant to section 303(b) of the Act for debentures with a term of fifteen years, without interest on such difference, such rate to be inscribed on the certificates offered to SBA.

(ii) Redemption rights.-A section 301 (d) Licensee shall be entitled at its option to redeem in whole or in part preferred securities purchased by SBA on any dividend rate (after giving at least thirty days written notice), by paying SBA the par value of such securities, but not less than \$50,000 par value in any one transaction, and giving SBA an undertaking to pay the additional amounts pursuant to paragraph (a) (2) (i) of this section,

(iii) Redemption, liquidation, or distribution of assets .- Before any redemption of stock not purchased by SBA, or liquidation in whole or in part, or any distribution of assets to other stockholders, SBA shall be paid any amounts due pursuant to paragraphs (a) (2) (i) and (iv) of this section, and the par value of its preferred stock: Provided, however, That such par value need not

§ 107.204 Collection or compromise of be paid SBA before the distribution of ordinary dividends from retained earn-

> (iv) Interest subsidy before dividends.—Debentures of a section 301(d) Licensee shall be entitled to a reduced interest rate according to section 317 of the Act. Such debentures shall specify the interest rates prescribed by sections 317 and 303(b) of the Act, together with the dates between which each applies. The interest rate as reduced by section 317 of the Act applies only to debentures purchased by SBA and not to debentures guaranteed under section 303(c) of the Act. A Licensee which has received the benefit of the rate computed pursuant to section 317 shall not pay dividends or make any distribution to stockholders other than SBA, unless it has first paid SBA the difference between the two rates for the relevant period, without interest on such difference. With respect to payment of interest, SBA shall have the same priority as applies to debentures purchased or guaranteed under section 303 (b) of the Act.

(3) Prior SBA approval required to amend charter.-The charter shall not be amended without SBA's prior writ-

ten approval.

(i) SBA approval required to increase salaries .- Without prior written SBA approval, a Debtor section 301(d) Licensee may not increase the salaries or other compensation of any officer, director, or employee beyond amounts previously

approved by SBA.

(ii) Exchange of outstanding debentures for preferred stock .- A section 301 (d) Licensee meeting the requirements of paragraph (iii) of this section may, in SBA's discretion, retire debentures outstanding pursuant to section 303(b) of the Act simultaneously with the issuance to SBA of preferred securities, in order to remain within the Leverage limits of section 303(c) (2) (iii) of the Act, but not otherwise.

(iii) Preferred securities other than stock.—A section 301(d) Licensee may issue to SBA preferred securities other than stock only if applicable law precludes the issuance of preferred stock.

(iv) State law.—SBA does not intend that provisions of this section not mandated by the Act shall supersede existing State law. Whenever a party claims that a conflict exists, it shall submit an opinion of independent counsel, citing authorities, for SBA's resolution of the issues involved.

FINANCING OF SMALL CONCERNS (EQUITY CAPITAL FINANCING: LONG-TERM LOANS: GUARANTIES: AND COMMITMENTS)

§ 107.301 General.

(a) Minimum period of financing .-Except as otherwise provided for in these regulations, Financings of Disadvantaged Concerns may be made for a minimum period of thirty months, the aggregate of such Financings for less than five years not to exceed fifty percent of the Licensee's Portfolio at the end of any fiscal year, determined without regard to prepayments (or similar events beyond the Licensee's control) which occur during that fiscal year," but all other Financings shall be for a minimum period of five years. Voluntary prepayment without penalty shall be permitted, unless SBA's prior written approval is obtained.

(b) Maximum amortization.—Amortization during the first five years (or during the first thirty months of an authorized Financing for at least thirty months) shall not be required at a rate exceeding an accumulated average based on the straight-line method of amortization.

tion."

(c) Maximum annual cost of money.—
Subject to lower rates prescribed by local law, the maximum annual cost for Financing shall not exceed fifteen percent of the average amount outstanding. Cost shall include all interest, discount and all fees, commissions and similar charges imposed, directly or indirectly, by the Licensee on the Small Concern; only charges for Advisory or Management Services pursuant to \$\$107.601 and 107.602 and charges pursuant to \$107.1004(c) shall not be included.

(d) Overline limitation. — Without written SBA approval, the aggregate amount of funds disbursed for securities acquired (exclusive of write-down), and of commitments and guarantees issued for a Small Concern (including affiliated concerns as defined in § 121.3–2(a) of this chapter) shall not exceed twenty percent of Licensee's Private Capital: Provided, however, That for section 301 (d) Licensees the limitation shall be thirty percent.

(e) Size status and nondiscrimination.—No assistance shall be provided

(1) The Licensee and the Small Concern have executed SBA Form 480, Size Status Declaration, including Licensee's determination that applicable size standards have been met, or SBA has determined at the request of the Licensee or such concern that the latter is a Small Concern; and

(2) The Small Concern has certified on SBA Form 652-D that it will not illegally discriminate in its operations, employment practices or facilities, as set forth in Part 113 of this chapter. Such forms shall be kept available for SBA's examination: Provided, however, That the foregoing shall not apply when the Licensee acquires the securities from an underwriter in a public offering pursuant to § 107.504(b) (3), in which event the Licensee shall keep the prospectus showing the small size status of the issuer, if available, as part of its records for SBA's examination.

EQUITY CAPITAL

§ 107.302 Equity capital.

(a) "Equity Capital" means funds supplied to a Small Concern as consideration for equity securities: Provided, how-

*For other short-term financing and amortization, see § 107.504(b) (1) and (2).

ever, That a Licensee shall not become a general partner in any partnership, or otherwise become jointly or severally liable for the general obligations of an unincorporated Portfolio Concern, except guaranties pursuant to § 107.501.

(b) "Equity Securities" means:

 Stock of any class, or any rights to purchase such stock in a Small Concern or its affiliate(s), as defined in § 121.3-2 of this chapter;

(2) Limited partnership interests, shares in a syndicate, business trust, joint stock company or association, mutual corporation, cooperative or other joint venture;

(3) Debt instruments which provide either or both of the following:

(i) A right to convert all or any portion of the debt into securities listed in paragraphs
 (b) (1) and (2) of this section, or

(ii) A right to acquire the securities listed in paragraphs (b) (1) and (2) of this section.

§ 107.303 Stock options and conversion rights.

The total cost of all shares of stock which may be acquired by a Licensee and a creditor guaranteed by it, through the exercise of options or conversion rights, may exceed the amount of funds supplied to the Small Concern, if agreed to by such concern. Subject thereto, a Licensee issuing a commitment pursuant to § 107.503, or guaranty pursuant to § 107.501, may also acquire options to purchase stock at cost agreed to by the Small Concern. Such options or conversion rights shall expire ten years from the date of such Financing, guaranty or commitment.

§ 107.304 Refinancing: First refusal on new indebtedness.

Whenever a Licensee provides Equity Capital to a Small Concern, it may require it to:

(a) Refinance its outstanding indebtedness so that the Licensee is the only holder of any evidence of indebtedness of such concern, and:

(b) Agree not to incur any new indebtedness without Licensee's approval and affording it an opportunity to finance such new indebtedness: Provided, however, That the Licensee shall allow appropriate exceptions for open account or other short-term credit.

LONG-TERM LOANS

§ 107.401 Provisions applicable to longterm loans.

See section 305 of the Act and § 107.301.

GUARANTY AND COMMITMENTS

§ 107.501 SBIC guaranty of loans.

Subject to \$107.301(a) (Minimum Period of Financing), a Licensee may guarantee to any non-associate creditor up to ninety percent of the monetary obligation of a Small Concern: Provided, however, That:

(a) No such guaranty shall be issued where Licensee would become subject to

State regulation as an insurance, guaranty or surety business;

(b) No such guaranty may be issued except at the request of the Small Concern or where necessary to protect Licensee's existing investment;

(c) Any direct Financing plus the amount of the guaranties does not exceed the overline limits under § 107.301(d);

(d) The total financing cost to the Small Concern may not exceed the limits set by § 107.301(c);

(e) The total guaranties issued and outstanding for all Small Concerns shall not exceed one hundred percent of Private Capital; and

(f) Licensee shall maintain a funded reserve of ten percent against all such guaranties. For options in connection with guaranties, see § 107.303.

§ 107.502 [Reserved]

§ 107.503 Commitments.

(a) General.—A Licensee is authorized to enter into a commitment to furnish Financing to a Small Concern. A reasonable commitment fee may be charged.

(b) Repayment period as to funds advances pursuant to Licensee's commitment.—(1) Where a Licensee enters into a commitment to finance a Small Concern, disbursement to be made at the latter's request, it shall be lawful (not withstanding the maturity provisions of § 107.301(a)) to provide for repayment as follows:

(i) Funds advanced during the first two years of the commitment period shall become payable not less than five years after date of the commitment;

(ii) Funds subsequently advanced shall become payable not less than three years from the respective disbursement dates.

(2) Amortization of each disbursement shall not be required at an annual average rate in excess of the principal amount thereof divided by the number of years of the respective repayment period.

(c) Options.—For options in connection with commitments, see § 107.303.

§ 107.504 Other permissible financing.

(a) Authorization.—A Licensee may furnish Financing pursuant to paragraph (b) of this section, within the overline limits of § 107.301(d), but the aggregate of all such Financing to any one or all Small Concerns shall not at any time exceed twenty percent of the Licensee's Private Capital.

(b) Investments permitted.—Notwithstanding §§ 107.301(a) and (b) and 107.302, a Licensee may make the following investments in Small Concerns:

(1) Short-term financing.—Financing with a term of less than five years when it constitutes a reasonably necessary part of the overall sound Financing of a Small Concern pursuant to the Act, the protection of investments, or financing ownership change pursuant to § 107.812. Paragraph (b) (1) of this section supplements the authority to make short-term

I Ibid.

investments in Disadvantaged Concerns under § 107.301(a).

(2) Amortization rate of forty percent per annum.—Financing with a minimum term of five years amortized at a rate not exceeding forty percent per annum of the declining principal balance outstanding, except for the final year of the term.

(3) Securities purchased from non-issuer.—Securities of a Small Concern purchased from a seller other than the issuer, when such acquisition constitutes a reasonably necessary part of the overall sound financing of such concern pursuant to the Act, and securities from or through an underwriter thereof within ninety days after a public offering is first lawfully made: Provided, however, That at least half the amount of such offering must be on behalf of the issuer. See also § 107.301(e) regarding size status and nondiscrimination certification.

MANAGEMENT SERVICES

§ 107.601 Management services.

- (a) General.-Management services may be advisory or may include per-formance of any financial, management or operating, activity of the Small Concern. An agreement to perform operating services shall be approved annually by the principals of the Small Concern (including, if a corporation, a majority of the shareholders and the Board of Directors) and shall be subject to SBA's prior annual written approval. A Licensee shall maintain a record for examination by SBA of the time spent and charges made for such services, which shall not exceed comparable charges by established professional non-Licensee consultants.
- (b) Services through contractors.— Management services may be performed through an associated or independent consultant under contract with the Licensee, whether or not such consultant has similar contracts with other Licensees. Such contracts must receive SBA's prior written approval before being consummated
- (c) Management services subsidiary .-A Licensee may organize a corporation solely to provide management services. All of its stock shall be owned and held by such Licensee, and the Licensee shall be responsible for compliance by its subsidiary with the Act and regulations. The remuneration paid to officers, directors and employees of the subsidiary of a Debtor Licensee, and any changes therein, shall be subject to SBA written approval. Reports submitted to SBA by the Licensee shall reflect consolidated figures for both corporations. The subsidiary shall maintain adequate records and make any separate reports required by SBA and it shall submit to SBA examination, Failure to do so shall be deemed non-compliance by the Licensee.
- (d) Associates.—With prior SBA written approval, an Associate of a Licensee, or person under such Associate's control, their agent or employee may directly or indirectly perform management services for a Small Concern, with compensation, therefore, payable to or for the benefit of such person, whether or

not such services are a condition of the Licensee's Financing such concern.

CONTROL OF LICENSEE

§ 107.701 Changes in ownership or control of licensee.

- (a) General.—Transfer of Control over a Licensee by any means whatsoever shall be subject to prior written approval of SBA.
- (b) Prior approval requirements.— Prior written approval of SBA shall be acquired in case of:
- A proposed transfer of ten or more percent of any class of Licensee's stock;
- (2) A proposed transfer which would result in the beneficial ownership by any Person, or group of Persons acting in concert, of ten or more percent of any class of its stock; or
- (3) Any proposed transfer which results in a change in Control over a Licensee.
- (c) Acts prohibited.—Without prior written approval of SBA, no such transaction shall be consummated and no officer, director, employee or other Person acting on the Licensee's behalf shall:
- Register on its books any transfer of shares to the proposed new owner (or owners); or
- (2) Permit the proposed new owner (or owners) to exercise voting rights with respect to said shares or participate in any manner in the conduct of Licensee's affairs.
- (d) Terms used.—(1) "Transfer," "stock transfer," or "transfer of shares" refers to the aggregate amount of shares which any Person or group of Persons acting in concert transfers or undertakes to transfer during any six month period.
- (2) "Exercise of voting rights" with respect to shares of Licensee's capital stock shall include directly or indirectly procuring or voting any proxy, consent or authorization as to such voting rights at any shareholders' meeting.
- (3) "Participation in the conduct of Licensee's affairs" shall include access to, custody of, or control over Licensee's corporate books, records, funds, or other assets; participation directly or indirectly in any disposition thereof; or serving as an officer, director, employee or agent of such Licensee.
- (e) Transferors' liability.—SBA may in its discretion, as a condition of a Licensee's Leverage, require the controlling shareholder(s) to assume in writing personal liability for such Licensee's Leverage, effective only in the event of their direct or indirect participation in any violation of the requirements of this section, and terminable if SBA subsequently approves the transfer of Control and so notifies the transferor(s) in writing.
- (f) Application for approval.—Written application for prior SBA approval shall be promptly made by the Licensee and by other parties in interest, accompanied by a processing fee of \$100 for each officer, director, owner of ten or more percent of Licensee's stock, or other party involved in a proposed change of Control: Provided, however, That the proc-

essing fee shall not exceed \$400 for any one transaction.

- (g) Public notice.—SBA shall publish notice in the FEDERAL REGISTER concerning the application for approval of a proposed transfer of Control, including such appropriate information as the name and location of the Licensee and of the proposed transferees who will own ten or more percent of any class of its stock. The notice shall provide an opportunity to submit written comments. A similar notice shall also be published in a newspaper of general circulation in the city or locality where the Licensee is or will be located (or conduct operations), and a certified copy shall be furnished to SBA within ten days.
- (h) Standards governing SBA approval.—(1) SBA may, as a condition of approving a proposed transfer of Control, require an increase in Licensee's Private Capital.
- (2) SBA may condition its approval on the assumption in writing by the new owners of contractual liability pursuant to paragraph (e) of this section, and on such other requirements as SBA deems necessary.
- (3) SBA approval shall be contingent upon full disclosure of the real parties in interest, the source of funds used, and data requested by SBA.
- (i) Reporting transactions involving possible transfer of control.—The Licensee shall, upon obtaining knowledge thereof, promptly report to SBA the facts pertaining to any transaction or event which affords reasonable grounds for belief that a transfer of Control over such Licensee is likely to occur. If there is any doubt as to whether a particular transaction or event will result in a change of Control, such doubt shall be resolved in favor of reporting the facts to SBA.

§ 107.702 Common control.

Without prior written SBA approval, a Licensee shall not have an officer, director, manager, or stockholder owning or controlling directly or indirectly ten or more percent of its stock who at the same time is:

- (a) An officer, director, manager or such stockholder of another Licensee; or
- (b) An officer or director of any Person which directly or indirectly controls, or is controlled by, or is under common Control with, another Licensee: Provided, however, That officerships or directorships in, and management, ownership or Control of stock of, a section 301(d) Licensee shall be excepted from the foregoing provisions.

§ 107.703 Pledge of Licensee's shares.

Whenever ten or more percent of a Licensee's stock is pledged by any Person (or group of Persons acting in concert) as collateral for indebtedness, and such pledge does not involve any transfer for which prior approval is required under § 107.701, written notice of the terms of such transaction shall be furnished to SBA by the pledgor within thirty calendar days from the date of the pledge.

LAWFUL OPERATIONS

§ 107.801 Amendments to act and regulations.

A Licensee shall be subject to all existing and future provisions of the Act and these regulations.

§ 107.802 Other laws.

Each Licensee shall comply with all applicable State or Federal laws.

§ 107.803 Operations under Act.

A Licensee shall engage only in the activities contemplated by the Act and in no other activities.

§ 107.804 [Reserved]

§ 107.805 Consideration for issuance of licensee securities.

- (a) General.—A Licensee may issue its securities, including stock options to management and employees, for:
 - (1) Cash;
- (2) Direct obligations of, or obligations guaranteed as to principal and interest by, the United States;
- Securities of which it is the issuer, in connection with a reclassification approved by SBA;
- (4) Services previously rendered to the Licensee not to exceed the fair value thereof;
- (5) Services to be rendered, on the terms and within the limits set forth in paragraph (b) (1) of this section;
- (6) Physical assets to be currently employed in Licensee's operation at the fair market value thereof;
 - (7) As a dividend; and
- (8) In connection with a merger, consolidation, or reorganization approved by SBA: Provided, hewever, That any stock issued as a part of Licensee's minimum capital pursuant to § 107.101(d) must be paid for in cash or securities permitted by the last sentence of section 308(b) of the Act: And provided, further, That a section 301(d) Licensee which has received Portfolio securities from a participant Licensee pursuant to § 107.813(d), may issue stock for such securities at their cost or fair market value, whichever is lower.
- (b) Stock options.—(1) Authorized for 1940 Act companies; terms and conditions. A Licensee which is registered as an investment company under the Investment Company Act of 1940 may issue stock options, provided each such option is a "qualified stock option" as defined in section 422 of the Internal Revenue Code and is granted pursuant to a plan which provides that:
- (i) The option by its terms shall provide that it is exercisable by the individual to whom it is granted only if, at all times during the period beginning with the date of the granting of the option and ending three months before the date of such exercise, such individual was an employee or officer of either the Licensee which granted such option or a wholly owned subsidiary thereof, or a successor Licensee or a wholly owned subsidiary thereof;
 - (ii) The aggregate number of shares

of any class of stock which may be issued under options pursuant to the terms of the plan shall not exceed seven and one-half percent of the total number of outstanding shares of such class (less shares reacquired and held in the treasury) at the time the plan is adopted;

(iii) The individuals who are officers or employees of the Licensee or of a wholly owned subsidiary thereof at the time the plan is adopted may not receive options to acquire more than an aggregate of sixty-six and two-thirds percent of the total number of shares of each class of stock which may be issued under options pursuant to the terms of the plan; and

(iv) No individual may receive an option or options to purchase more than thirty-five percent of the aggregate number of shares of each class which may be issued under options pursuant to the terms of the plan.

(2) Stock options not deemed compensation.—Stock options issued by any Licensee including a 1940 Act company, which comply with the requirements of foregoing paragraph (b)(1) of this section shall be deemed not to constitute "compensation" for purposes of any requirement of prior written consent of SBA with respect to increases of salaries or other compensation behind the amounts approved by SBA.

(3) Licensees other than 1940 Act companies remain authorized to issue stock options which do not meet the requirements of paragraph (b) (1) of this section.

§ 107.806 Retention of investments.

A Licensee may retain its investment in a concern which qualified as small at the time of initial Financing, but which subsequently became large. Securities received in connection with a Portfolio Concern's merger, consolidation, or affiliation with a large business may be retained until Licensee has recovered its original investment plus a reasonable return thereon, and thereafter, so long as continued ownership does not interfere with the Financing of Small Concerns. Additional Financing may be provided only to the extent necessary to honor a commitment made while the concern was small or to protect Licensee's original investment.

§ 107.807 Purchases of securities from another licensee.

A Licensee may exchange with or purchase for cash from another Licensee Portfolio securities (or any interest therein):

 (a) Without recourse against the seller (except for liability resulting from false representations as to matters of fact);

(b) In the case of evidences of indebtedness, with recourse against the seller not to exceed ninety percent of the debt outstanding at the time of default by the obligor: Provided, however, that:

 Licensee shall not have at any time more than one-third of its total assets invested in such securities; and

(2) The amount for which the selling Licensee may be contingently liable shall

be included in its twenty percent overline limit under § 107,301(d).

§ 107.808 Idle funds.

Funds of a Licensee not invested in Small Concerns or in accordance with the last sentence of section 308(b) of the Act shall be deposited without delay, or may be invested in Time Certificates of Deposit maturing within one year, issued by any bank which is a member of the Federal Deposit Insurance Corporation: Provided, however, That a Licensee may maintain a petty cash fund up to \$500.

§ 107.809 Investment adviser/manager.

(a) General.—A Licensee may employ an Investment Manager or Adviser, as defined in § 107.3, and shall furnish SBA with a copy of the contract before its effective date. Services performed may include the actual performance of certain of Licensee's management or operating activities. However, the responsibility for the Licensee's actions shall vest with its Board of Directors. Compensation paid by a Debtor Licensee is subject to prior written SBA approval.

(b) Two or more Licensees may, with prior SBA approval, employ the same Investment Adviser or Manager.

§ 107.810 Assets in liquidation.

A Licensee shall dispose of property acquired in total or partial liquidation of a Portfolio asset, within a reasonable period of time. It may incur reasonably necessary expenditures for maintenance and preservation: Provided, however, That except as specifically approved in writing by SBA, such expenditures plus Licensee's total investment attributable to such asset shall not exceed its overline limit under § 107.301(d). Application for SBA approval shall specify all expenses estimated to be necessary pending disposal of the property.

§ 107.811 Additional investment by bank.

A federally regulated bank which on January 9, 1968, held fifty percent or more of any class of equity securities of a Licensee, having actual or potential voting rights, may make further investments in such Licensee only if they would not increase its percentage holding of such securities. Capital increases shall be subject to SBA postapproval under § 107.1105.

§ 107.812 Financing changes of ownership.

A Licensee may finance a change of ownership in a Small Concern when it will promote the sound development or preserve the existence of a Small Concern; or will assist in the creation of a Small Concern as a result of a corporate divestiture; or will facilitate ownership in a Disadvantaged Concern. For restrictions governing purchases from non-issuer, see § 107.504(b) (3).

§ 107.813 Section 301(d) licensee wholly or partly owned by licensee companies.

(a) General.—A section 301(d) Licensee may be licensed to operate as the subsidiary of one or more Licensee companies ("participant Licensee"), with or without non-Licensee participation, subject to the following conditions:

(1) Application,-In reviewing a license application, SBA will consider the effect on the participant Licensees of their capital contribution to the proposed

section 301(d) Licensee.

(2) Participant licensees.-Each participant Licensee shall own at least twenty percent of the voting securities of the proposed section 301(d) Licensee. and such ownership shall constitute a presumption of active participation. Licensees proposing to own less than twenty percent of such voting securities may demonstrate to SBA's satisfaction that they will be active participants.

(3) Capital contribution.—The capital contribution of a participant Licensee which is no part of the statutory minimum capital of \$150,000 of the section 301(d) Licensee, may be represented by securities of Small Concerns eligible for investment by a section 301(d) Licensee. at cost or fair market value, whichever is lower, Assumption by the proposed section 301(d) Licensee of any part of such participant Licensee's indebtedness held or guaranteed by SBA will not be permitted. A capital contribution shall, for purposes of the participant Licensee's Leverage, be treated as a reduction of its capital, and shall not result in excess Leverage for such participant Licensee.

RESTRICTED ACTIVITIES

§ 107.901 Control of small concern.

(a) General.-The Act does not contemplate that Licensees shall operate business enterprises or function as holding companies exercising control over such enterprises. Accordingly, neither a Licensee, nor a Licensee and its Associates, nor two or more Licensees may, except as hereinafter set forth, assume Control over a Small Concern pursuant to management agreements, voting trusts, majority representation on the board of directors, or otherwise.

(b) Presumption of control.-Control over a Small Concern will be presumed to exist whenever a Licensee or Licensee and its Associates, or two or more Licensees, own or Control, directly or indirectly, voting securities equivalent to:

(1) Fifty percent or more of the outstanding voting securities, if held by

less than fifty shareholders; or

(2) More than twenty-five percent or a block of twenty or more percent which is as large as or larger than the largest other outstanding block of such securities, if held by fifty or more shareholders. Potential ownership of voting securities through options, warrants and other conversion privileges shall not be considered in counting the amount of actual outstanding voting securities owned when determining whether a presumption of Control exists. This presumption may be rebutted by evidence satisfactory to SBA.

(c) Temporary control permitted.-A Licensee may acquire temporary Control only where reasonably necessary for the

protection of its investment.

(d) Plan to relinquish control.-A Licensee may assume Control pursuant to paragraph (c) of this section only if it has entered into a written plan, enforceable by the Small Concern or its shareholders, providing for relinquishment of Control within a reasonable period not exceeding seven years. Such plan shall expressly state that it is subject to SBA approval, that the parties consider the plan fair, and shall be filed with SBA within thirty days after Control is acquired, subject to SBA's post approval as a condition for the continuance of the license and shall be deemed approved unless Licensee is otherwise notified within ninety days after its receipt by SBA. Where an approved plan later becomes inadequate, a revised plan shall be submitted for SBA's approval. SBA approval shall be contingent upon disclosure of all relevant facts and be subject to such conditions as SBA may prescribe.

(e) Annual reporting.-The Licensee shall furnish to SBA with its Financial Report, SBA Form 468, a statement (in triplicate) setting forth current prospects for the implementation of the divestiture plan, and additional factors, if any, affecting the status of Control.

(f) Enforcement actions .- A divestiture plan shall not interfere with Licensee's enforcement of its legal rights against a Portfolio Concern. If the Licensee retains or acquires Control through enforcement action, it shall immediately notify SBA and submit within thirty days a divestiture plan for SBA approval. Subject to § 107.1005, such plan may be negotiated with parties other than the Small Concern or its shareholders.

(g) Additional financing.-A Licensee which has assumed Control of a Small Concern may later provide additional Financing, without an exception under § 107.1004(b)(1), but shall within thirty days resubmit its divestiture plan with appropriate amendments for SBA's approval.

§ 107.902 Voluntary capital decrease.

Without prior written SBA approval. a Licensee shall neither voluntarily reduce its Private Capital, nor purchase and hold more than two percent of any class of its stock.

§ 107.903 Mergers; consolidations, and reorganizations.

Subject to the prior written SBA approval, a Licensee may participate in a merger, consolidation or reorganization where the resultant company will qualify as a Licensee.

PROHIBITIONS

§ 107.1001 Prohibited uses of funds.

No funds may be provided to a Small Concern:

(a) Relending, reinvesting, etc.-For relending or reinvesting or if its primary business activity involves, directly or indirectly, providing funds to others, the purchase of debt obligations, factoring, or long-term leasing of equipment with no provision for maintenance or repair:

Provided, however, That, except for commercial banks, savings banks, agricultural credit companies, and savings and loan associations not insured by the Federal Savings and Loan Insurance Corporation, the foregoing prohibition shall not apply to venture capital Financing (as defined in § 107.202(b)) of any Disadvantaged Concern, organized less than five years. Without SBA's prior written approval, all Financings pursuant to this proviso shall not exceed the Licensee's Private Capital as of the close of any full fiscal year."

(b) Financing licensees.-Directly or indirectly, for purchasing stock in or otherwise providing capital for a Licensee, or to repay an indebtedness to

accomplish such purpose.

(c) Real estate.—(1) If the Small Concern is classified under Major Group 65 (Real Estate) of the SIC Manual except for:

(i) Subdividers and developers (other than cemetery subdividers and develop-

(ii) Title abstract companies; and

(iii) Agents, brokers and managers, or (2) If the Financing will be used to acquire, or discharge an obligation relating to the prior acquisition of, realty to be held without prompt and substantial improvement, for leasing by a Small Concern which is neither an eligible real estate concern (Industry Numbers 6531, 6541 and 6552 of the SIC Manual) nor an operative builder (Industry Number 1531), or for sale to others: Provided, however, That prompt improvement shall not be required where an adverse change of circumstances beyond the Small Concern's control makes leasing necessary, pending improvement or sale at the earliest feasible date. Realty acquired for sale which is promptly and substantially improved, may be leased pending sale at the earliest feasible date, where such adverse change makes immediate sale impracticable. Evidence of such adverse change shall be kept for SBA's examination. Improvement shall, for the purposes of this paragraph, be deemed prompt and substantial if:

(i) An amount equal to fifty or more percent of the Financing is used for im-

provements; and

(ii) Such improvements are undertaken within one year from date of acquisition or date of Financing, whichever is later.

(d) Public interest.-For purposes contrary to the public interest, including but not limited to gambling activities, or inconsistent with free competitive enter-

- (e) Foreign investment.-For use outside the United States: Provided, however, that a Licensee may provide funds to a domestic Small Concern:
- (1) To acquire abroad materials and industrial property rights for a domestic operation; or

^{*1940} Act companies are reminded that sections 12(d) (2) and (3) of that Act impose additional restrictions on certain investments otherwise permitted by this § 107.1001

(2) For foreign branch operations or for transfer to a controlled foreign subsidiary, so long as the major portion of the assets and activities of such concern will remain within the United States.

(f) Passive businesses. If that concern is not engaged in a regular and continu-

ous business operation.

(g) Associated supplier.—If fifty or more percent of the funds (or funds of the Small Concern released by such Financing) are used to purchase goods or services from a supplier which is an Associate of the Licensee: Provided, however, That in the case of a Section 301(d) Licensee, such limit shall be seventy-five percent.*

(h) Agriculture.—For use primarily in agricultural activities, agricultural activities include, but are not limited to, the production of food and fiber. However, where the Small Concern is engaged in an agricultural activity, but financial Assistance has been formally refused by an Agency of the Federal Government or an agricultural credit service supervised by the Farm Credit Administration, such concern shall be eligible for Licensee Assistance (and the Licensee shall retain in its files evidence of such refusal) unless it:

(1) Produces (or in the last growing season produced) one or more crops currently eligible for a U.S. Department of Agriculture support payment or pro-

duction loan;

- (2) Produces livestock otherwise than by operating a commercial feed yard for cattle or hogs which derives its income from housing and feeding animals owned by others or purchased from others solely for fattening and resale;
- (3) Produces baby chicks for resale and purchases less than fifty percent of its eggs from others;
- (4) Operates a poultry feed yard where any part of its income, except income from egg production, is derived from sources other than the housing and feeding of poultry owned by others; or
- (5) Produces fish, and neither the production process nor the fish is novel, innovative or experimental.
- § 107.1002 [Reserved]
- § 107.1003 Inactive licensees.
- (a) The Act contemplates that a Licensee shall conduct active operations to meet the needs of Small Concerns. Accordingly, inactivity constitutes a violation of these regulations.
- (b) A Licensee which on the close of any full fiscal year has more than twenty-five percent of its assets in idle funds (§ 107.808) shall be presumed in active if it has not, during the past year, provided Financing aggregating at least twenty-five percent of the average amount of its said idle funds during such fiscal year. It shall promptly file written reasons for its inactivity. The foregoing presumption may be rebutted by written evidence satisfactory to SBA.

§ 107.1004 Conflicts of interest.

(a) General.—Self-dealing to the prejudice of Small Concern, or of a Licensee or its shareholders, or of SBA, is prohibited.

(b) Prohibitions.—Except where a written exemption may be granted by SBA in special instances in furtherance

of the purposes of the Act:

 A Licensee shall not, directly or indirectly, provide Financing to any of its Associates.

- (2) A Licensee shall not, directly or indirectly, provide Financing to an Associate of another Licensee if an Associate of the first Licensee receives, has received, or is about to receive (including receipt pursuant to any understanding, agreement, or cross-dealing, reciprocal or circular arrangement) any direct or indirect Financing or a commitment for Financing from such other Licensee or a third Licensee.
- (3) No Licensee or any of its Associates shall directly or indirectly borrow money from:
- (i) A concern Financed by such Licensee, or
- (ii) An officer, director, or owner of ten or more percent equity interest in such concern; or

(iii) A close relative of such officer, di-

rector, or equity owner.

(4) No Licensee shall directly or indirectly provide Financing to discharge or to free other funds for use in discharging an obligation to an Associate of the Licensee: Provided, however. That the foregoing shall not apply to transactions by Associates in the normal course of business involving lines of credit.

(5) No Licensee shall directly or indirectly Finance, except as permitted by § 107.1001(g), the purchase of property from an Associate of the Licensee.

- (c) A Licensee may provide Financing to a non-Associate also Financed by an Associate of such Licensee contemporaneously or within one year before or after the Licensee's Financing, but only on terms not less favorable to the Licensee than to the Associate. Licensee shall retain written evidence of the entire transaction. Where the Associate's Financing is of a different kind, the burden shall be on the Licensee to show that the terms of its Financing were at least as favorable as those of its Associate's Financing: Provided, however, That the foregoing shall not apply to transactions by Associates in the normal course of business involving lines of credit or shortterm Financing.
- (d) Compensation to associates.—Without the prior written approval of SBA, no Associate of a Licensee shall receive from a Small Concern, directly or indirectly, any compensation in connection with Assistance rendered by such Licensee or anything of value for procuring, attempting to procure, or influencing Licensee's action with respect thereto, except only reasonable sums for bona fide closing expenses and services performed by an Associate designated by the Licensee with the consent of such concern. "Closing Services" shall include,

for example, title examination, appraisal, credit report, survey, but shall not include postclosing services, such as management consulting services. Compensation for closing services must be approved as reasonable and collected by the Licensee on the Associate's behalf; written evidence of the transaction shall be retained for SBA's examination.

(e) Public notice.—Before SBA grants an exemption under this section, the Licensee shall publish in a newspaper of general circulation in the locality most directly affected by the transaction, a notice prescribed by SBA, and furnish a certified copy to SBA within ten days; SBA shall publish a similar notice in the

Federal Register.

(f) Protection of investment.—Nothing contained in these regulations shall preclude a Licensee from designating an Associate to serve as an officer, director or in any other capacity in the management of a Portfolio Concern to protect its investment: Provided, however, That such Associate has not other direct or indirect financial interest in the Portfolio Concern and has not served as an officer or director or in any other capacity in the management of such concern for more than thirty days prior to such Financing.

(g) 1940 Act companies.—A 1940 Act company which has been granted an exemption by the Securities and Exchange Commission with regard to a transaction described in this section shall be exempt therefrom: Provided, however, That the Licensee shall promptly notify SBA and publish notice thereof pursuant to para-

graph (e) of this section.

§ 107.1005 Disposition of assets to licenser's associates or to competitors of portfolio concern.

(a) Except with a written exemption from SBA in special instances, a Licensee shall not dispose of assets (including assets in liquidation) to any Associate. As a prerequisite to such exemption, the Licensee must demonstrate that the proposed terms of disposal are no less favorable to it than are obtainable elsewhere.

(b) Except with written approval of the Portfolio Concern which is not controlled by the Licensee, or of SBA, a Licensee shall not dispose of Portfolio securities to a competitor of such concern. The particulars of any such disposal shall be promptly reported to SBA.

§ 107.1006 [Reserved]

§ 107.1007 No Government sponsorship.

No Licensee shall represent or imply in any manner that any stock issued or obligation incurred by it has been approved by the United States, or any agency or officer thereof, and a statement to such effect shall be included in any solicitations to investors.

§ 107.1008 Violations based on false filings and nonperformance of agreements with SBA.

The following shall constitute a violation of these regulations:

(a) Nonperformance of any of the requirements of any debenture, preferred

^{*}See 1 107,1004(b) (5).

security, note issued to or guaranteed by SBA, or of any written agreement with

SBA.

(b) Any false statement knowingly made, or misrepresentation or failure to state a material fact necessary in order to make a statement not misleading in the light of the circumstances under which the statement was made, in any document submitted to SBA.

EXAMINATIONS, ACCOUNTS, RECORDS AND REPORTS

§ 107.1101 Examinations fees.

(a) General.-Examination fees will be assessed for annual examinations made in accordance with the Act, except for the first examination of section 301 (d) Licensees. As a general rule, SBA will not assess examination fees for special examinations to obtain specific information.

(b) Rates.-The fee structure provides rates based on the Licensee's assets as of the date of the latest certified financial statement submitted to SBA before the examination. The rate table is as follows:

Total assets of licenses	Base rate	+	Percent of assets
\$500,000 or less	\$400	++++	0
\$500,001 \$1,000,000	400		0.05 over \$500,000.
\$1,000,001-83,000,000	700		0.015 over \$1,000,000.
\$3,000,001-85,000,000	1,000		0.008 over \$3,000,000.
Over \$5,000,001	1,160		0.003 over \$5,000,000.

For example, a Licensee with total assets of \$2,000,000 would pay an examination fee of \$850 (\$700+0.015% of \$1,000,000).

(c) Additional fee.—SBA may assess an additional fee of \$100 per day if the examination is delayed or prolonged, in the judgment of SBA, by a Licensee's failure to act with reasonable business prudence in the conduct of its affairs. For example, if its records are not kept current, the resulting delay could be deemed cause for such assessment.

§ 107.1102 Records and reports.

(a) Records.—Current financial records including books of account are to be maintained in all material respects in accordance with SBA's System of Account Classifications. All financial rec-ords, and minutes of meetings of stockholders, directors, executive committees, or other officials, and all documents and supporting material relating to Licensee's transactions shall be kept at its principal office: Provided, however, That Portfolio items held by a custodian pursuant to written agreement shall be excepted from this requirement. All financlal reports furnished to SBA shall make complete disclosure of all matters relevant to the Act and regulations.

(b) Preservation of records.-Each Licensee shall preserve, for the periods hereinafter specified and in a manner that permits the immediate location of any record, such documents which are the basis for financial statements required by paragraph (e) of this section, and of the accompanying independent public accountant's certificate. Each Licensee shall:

(1) Preserve permanently:

(i) All general and subsidiary ledgers (or other records) reflecting assets and valuation, liability, capital stock and surplus, income, and expense accounts;

(ii) All general and special journals (or other records forming the basis for

entries in such ledgers); and

(iii) The corporate charter, bylaws, license application, and all minute books, capital stock certificates or stubs, stock ledgers, and stock transfer registers, such documents to be kept readily accessible for the first two years.

(2) Preserve for a period of at least six years following final disposition of the related loan or investment, all applications for Financing; size status declarations; lending, participation, and escrow agreements; Financing instruments; capital stock certificates and warrants of Small Concerns not surrendered or exercised; and all other documents and supporting material relating to such loan or investment, including correspondence, such documents to be kept readily accessible for the first two years.

(3) Preserve for a period of at least six years all vouchers, checkbooks, bank statements, canceled checks, cash reconciliations, ledger trial balances, memoranda, correspondence, and other documents forming the initial accounting data for entry in, or underlying records in support of, the records enumerated in

paragraph (b) (1) of this section.

(4) Notwithstanding the provisions of paragraphs (b)(1) through (3) of this section, a microfilm reproduction of any records may be substituted for the original and preserved for the required time in the required manner: Provided. however, That Licensee shall:

(i) Cause a duplicate microfilm to be made on a current basis and stored separately from the original microfilm for the time required;

(ii) At all times have available facilities for easily readable projection and the production of easily readable facsimile enlargements

(c) Reports to stockholders.-At the time any report (including any prospectus, letter, or other publication concerning the financial operations of the Licensee or any of its Portfolio Concerns) is furnished to investors, the Licensee shall file three copies with the Investment Division, SBA,

(d) Documents filed with SEC .-Whenever a Licensee files any report, application or document with the Securities and Exchange Commission, it shall concurrently provide SBA with a copy thereof.

(e) Financial reports to SBA .- (1) Each Licensee shall submit to SBA, at the end of each fiscal year, a report containing financial statements for the fiscal year; and, when requested by SBA, interim financial reports, such reports to present fairly the financial position and the results of the Licensee's operations as of the close of the reporting period. The reports are to be prepared in accordance with SBA's Instructions therefor and shall be filed on SBA Form 468 in triplicate with the Investment Division, SBA, on or before the last day of the month immediately following the end of the reporting period (in the case of an unaudited report), and on or before the last day of the third month following the end of the reporting period (in the case of an audited report). The 1940 Act companies should refer to the rules of the Securities and Exchange Commission for the reports to be filed

(2) The report as of the end of each fiscal year shall be accompanied by the opinion of an SBA-approved independent certified public accountant or licensed public accountant, certified or licensed by the appropriate regulatory authority of a State or political subdivision thereof. Such opinion shall be based on an audit of the Licensee's accounts in accordance with generally accepted auditing standards. Guidelines to be followed are set forth in SBA's Audit Guide for Small Business Investment Companies. Copies may be obtained from SBA. Effective December 31, 1975, only certified public accountants and licensed public accountants who have received their licenses on or before December 31, 1971. will be considered qualified to render such opinions.

(f) Litigation reports.-When a Licensee becomes a party to litigation or other proceedings, including any action by the Licensee, or by a security holder thereof in an individual personal or derivative capacity, against an officer, director, Investment Adviser or other Associate of such Licensee for alleged breach of official duty, it shall within ten days file a report with SBA describing the proceedings, identity of and Licensee's relationship to other parties involved and, upon request, submit copies of the pleadings and other documents specified by SBA. Where such proceedings have been terminated by settlement or final judgment, the Licensee shall promptly advise SBA of the terms thereof. This paragraph shall not apply to collection actions or proceedings in enforcement of Licensee's ordinary creditors' rights.

(g) Other reports.-Each Licensee shall file with the Investment Division. SBA, such other reports as SBA shall re-

quire by written directive.

\$ 107,1103 Internal control.

(a) General.—Each Licensee shall adopt a plan designed to safeguard its assets and monitor the reliability of its financial data, personnel, Portfolio,

funds, and equipment.

(b) Dual control.-Licensees shall maintain dual control over disbursement of funds and withdrawal of securities. Disbursements shall be made only by means of checks requiring the signatures of two or more officers, covered by the Licensee's fidelity bond, except that checks in amounts of \$1,000 or less may be signed by one bonded officer. Two or more bonded officers, or one bonded officer and one bonded employee, shall be required to open safe deposit boxes or withdraw securities from safekeeping. Licensees shall furnish to each depository bank, custodian, and entity providing safe deposit boxes, a certified copy of its resolution implementing the foregoing control procedures.

§ 107.1104 Fidelity insurance.

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Each Licensee shall maintain a Brokers Blanket Bond, Standard Form No. 14, or such other form of coverage as SBA may approve, in a minimum amount of \$25,000, executed by a surety holding a certificate of authority from the Secretary of the Treasury pursuant to 6 U.S.C. sections 6-13. For additional details, see SBA's Audit Guide for Small Business Investment Companies.

§ 107.1105 Reporting changes not subject to SBA approval.

(a) Changes to be reported.—Any change of Licensee's name, address, telephone number, officers or directors, charter, operating area, investment policy, or increase in capitalization not otherwise required to be reported (see, for example, § 107.701) shall be reported to SBA not later than thirty days after these events. All changes shall be subject to SBA postapproval as a condition for the continuance of the license.

(b) SBA approval.—Reports and requests filed pursuant hereto shall be deemed approved unless Licensee is notified to the contrary by SBA within

ninety days after receipt thereof. Approval shall be contingent upon full disclosure of all relevant facts, subject to any conditions SBA may prescribe.

COMPLIANCE

§ 107.1201 [Reserved]

§ 107.1202 [Reserved]

§ 107.1203 Exemption from civil penalty.

Where it is impracticable to submit any required report within the prescribed time, the Licensee may, before such time has expired, promptly file an application which:

(a) Identifies such report;

(b) Certifies to an extraordinary occurrence not within the Licensee's control which makes timely submission of such report impracticable; and

(c) Is accompanied by written

SBA may thereupon exempt the Licensee, from the civil penalty provision of section 315(a) of the Act, in such manner and upon such conditions as SBA determines.

EXEMPTIONS

§ 107.1301 Exemptions.

A Licensee may file an application in writing with SBA to have a proposed

action, which is subject to any procedural or substantive requirements, restriction, or prohibition specified under this Part, exempted from applicable provisions thereof. SBA may approve such application and grant an exemption, conditionally or unconditionally, to the extent that such exemption, from the requirement, restriction, or prohibition would not be contrary to the intents and purposes of the Act. Such application must be accompanied by supporting evidence which demonstrates to SBA's satisfaction that:

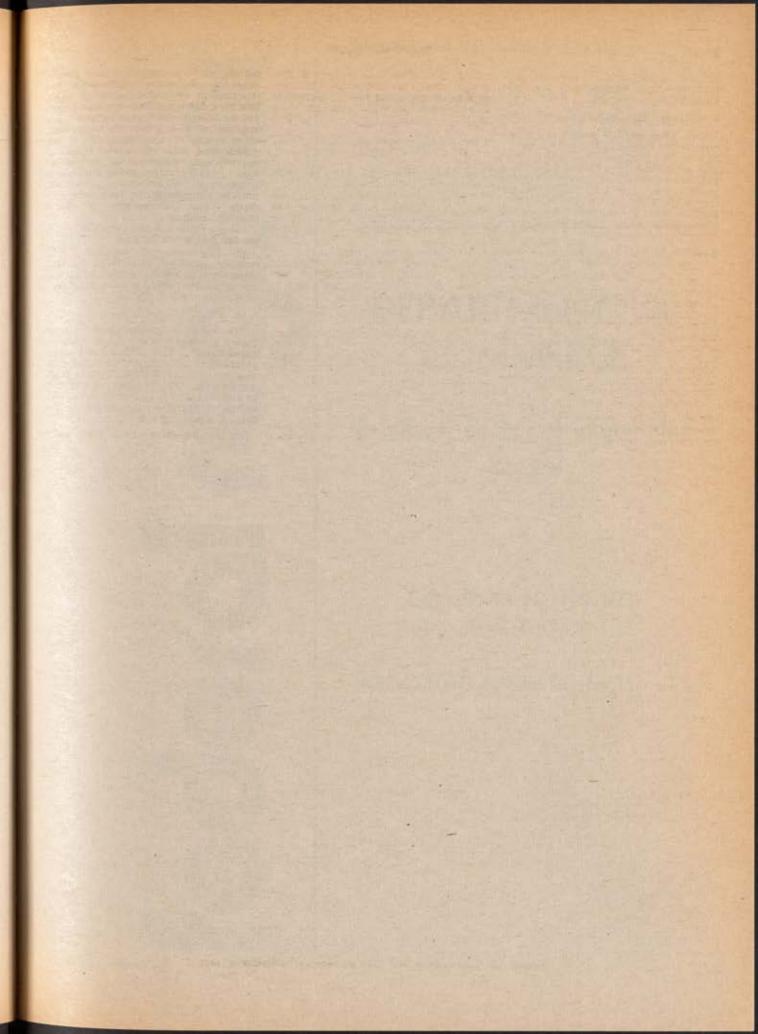
(a) The terms of the proposed action are fair and equitable; and

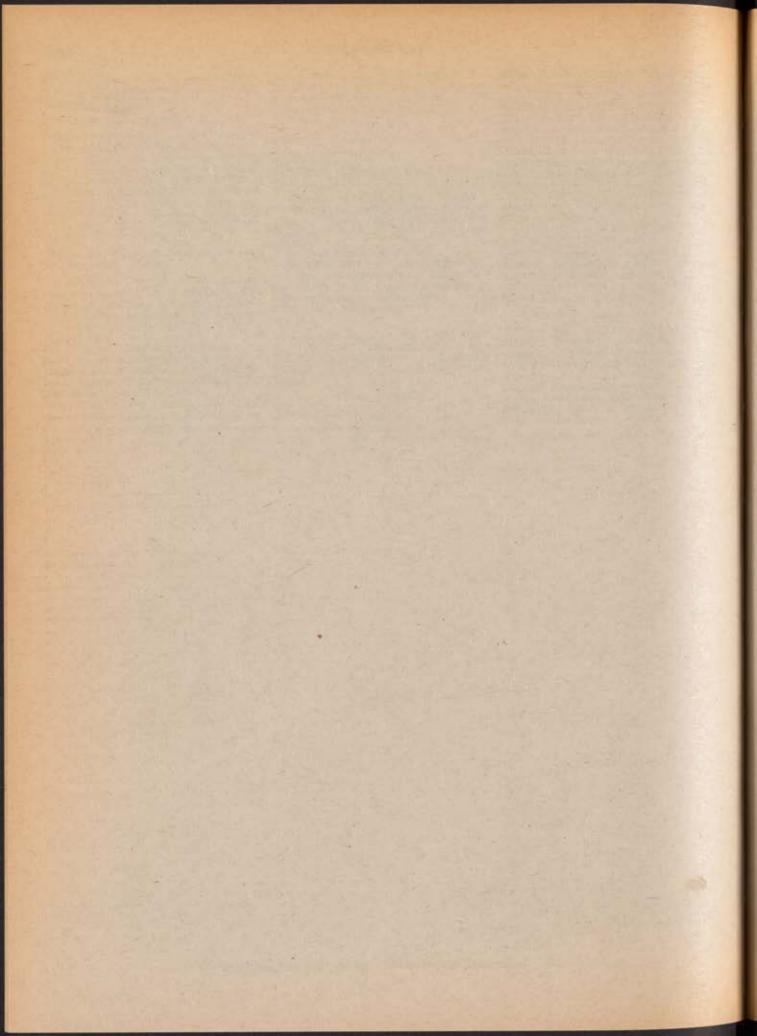
(b) The exemption requested is reasonably calculated to advance the best interests of the SBIC program in a manner consonant with the policy objectives of the Act and regulations.

§ 107.1302 Savings clause.

The legality of transactions consummated pursuant to provisions of these regulations in effect at that time shall be governed thereby, notwithstanding subsequent changes. Nothing herein shall bar SBA enforcement action with respect to any transaction consummated in violation of provisions applicable at the time, but no longer in effect.

[FR Doc.73-18639 Filed 9-4-73;8:45 am]





WEDNESDAY, SEPTEMBER 5, 1973 WASHINGTON, D.C.

Volume 38 ■ Number 171

PART IV



DEPARTMENT OF COMMERCE

National Technical Information
Service

GOVERNMENT OWNED INVENTIONS

AEC Patents; Availability for Licensing

J. J. Stone, Jr. A. A. Sindsor R. W. Schede

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2,739,237 2,739,285 2,739,286 Apparatus for the Production of Costings 2. M. Shapiro, J. McDonald of Purified Metals

Alpha Survey Meter Circuit Current Measuring Device Amplifier Circuit

R. F. Barnes, H. Dismond, P. R. Ffelds

Preparation of Boric Acid Esters Electrolytic Cutting of Metals

S. B. Smith H. C. Urey

Process for the Production of Deuterium Oxide

Production of Cranium Sulfate

2,741,541 2, 25, 253

G. L. Kehl, I. Roch

F. T. Sagemenn, L. I. Katzin, N. N. Hellman

Re-extraction of Dranium from Organic

Solvents

2,743,157

National Technical Information Service DEPARTMENT OF COMMERCE GOVERNMENT-OWNED INVENTIONS Availability for Licensing

2,739,935 2,739,566 2,739,979 The Patents listed below have been issued to the U.S. Atomic Energy Commission and are available for licensing in accordance with GSA Patent Licensing Regulations. Paper copies of the patents are available from the Commissioner of Patents, Washington, D.C. 20231, at \$0.50 each.
Requests for licensing information should be directed to:

U.S. Atomic Energy Commission, Assistant General Counsel for Patents, Washington, D.C.

Patent Program Coordinator, National Technical Information Service. DOUGLAS J. CAMPION.

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L. S. Borst, E. W. Newson	H. E. Metcalf, H. W. Johnson, R. S. Chisboln	S. G. Thompson, B. B. Cundigham, A. Chiorso	rs W. K. Plucknett	A. E. Bennett, J. C. H. Ceisow	R. Spence, H. J. W. Streeton	R. A. Dendl	R. P. Benderson	W. J. Armstrong, P. I. Corbell, K. H. McPhee	70. P. V. Senton :	n D. Rucfman, C. W. Lower	lide " 5. 2, Cardon	N. C. Metriger, A. Long, E. M. Stoltz, Jr.
Neutronic Reactor Measuring and Safety Rod Operating Apparatus	Fluid Cooled Neutronic Reactor	Production of Curium 243	Separation of Rafmium and Zirconium Salts W. K. Plucknett	Timing Apparatus	Fluid Contactor Apparatus	Portable Scintillation Survey Heter	Quartz Fiber Electroscopes	Demountable Filament Assembly	Sever Sapler	- Method of Recovery of Utanium by a Resin D. Enthum. C. W. Lower-in-pulp Process	Method of Preparing the Double Halide 5. 2. Cardon Salts of Thorium and Alkali Metals	Dranium Recovery Process
2,741,592	2,741,593	2,741,627	2,741,628	2,742,085	2,742,348	2,742,576	2,742,577	2,742,587	2,742,788	2,743,154	2,743,155	2,743,156
	INVENTOR	E. O. Lawrence	A. Thunses, E. A. Brown, H. W. Smith, J. Brannen	K H Wonder, C. H. Toe		W. M. Hurst	D & Moland, C. Marsano					
	TITIE	Condensable Vapor Extraction Apparatus	Uranium Separation Process	A second Company of the second	Rethod for the Separation of clavomord Compounds	Isoutd Monitoring Device	a production to the second	Metal Production of America,				

2,738,426

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F. F. Oppenheimer	W. R. Baker, R. Del.Iban	P. E. Collins, G. M. Inman	W. H. Bruggeman, B. G. Woorhees	R. DeLiben	2 J. Loferson	Bulletin in in	I. A. Darroch Lewis Wantage	L. A. Chlinger	W. Chubb, Jr., L. L. Marsh, Jr.	D. J. H155	R. B. Houser	R. Krohn	L. B. Vandenberg	B. J. Bittmer	P. A. Mate		A. S. Lanssdorf. Jr.	A. B. Schultz		3. 4. Rankin	C. A. Etemberger, R. E.	H. L. Anderson		B. T. Place	A. H. Emons, P. A. Landerdale	
Ion Producing Sechanian	Beim Current Regulator	Pressure Testing Device and Method	Filter with Fractional Crystallization Means	Arc Regulator for Calutron los Source	Calutron Receivers	The second second second	tures amplitude Amelysers	Valve Means for Charging Containers with Fluid	Ternary Zirconium Base Alloy Containing Sn and Ti	fower or Voltage Measuring Means	Pressure Chamber Closure Apparatus	Charge Boat for Volatilisation	Best-Exchanger Pump	Directional Coupling Means for Trans-	Process of Recovering Desaiss from its	Ores Linear Police Teterantee	Electrostatic Measuring Device	Releasable Gripper for Holding an	Article Suspended	Particle Trajectory Plotter	Electropolisher	Heutronic Reactor Device	Merhod of Melylan on Plantments Coats	Leafence Tearing Apparatus	Process for Water Decontamination	
2,745,017	2,745,018	2,745,279	2,745,552	2,745,964	2,745,965	2 765 985	CDC (CD) (2	2,746,473	2,746,861	2,747,126	2,747,762	2,747,972	2,748,710	2,749,520	2,750,254	2.750.500	2,750,520	2,751,229		2,751,273	2,751,34	2,751,305	2,751,662	2,751,780	2,752,309	
A. D. Webb, H. P. Kyle	G. A. Lutts	The state of the state of	D. E. Carpenter, C. P. Johnston, H. P. House, K. O. Johnston	P	R. Krohn, R. J. Schmidt	J. C. Becker	L. L. Burger	G. Derge, G. P. Monet	J. R. Keeler, H. A.	The state of the s	talling of the control of the contro	a designation of a	Garrison, M. Burton	L. A. Chlinger	L. A. Chlinger, E. P. Wigner, G. J. Young, A. M. Weinberg		R. Q. Boyer	E. S. Bettis, E. R. Mann	Q. A. Lorras	E. J. Browne, N. B. Garden	The state of the s	J. M. Kelly, Jr.	T. V. Moore	S. H. Wender, T. B. Richmond, C. H. Ice, Q. L. Morris	J. C. Chu, D. E. Jacobsohn	
Process for Producing Branius Penta- chioride	Recovery of Uranium from Aquecus Solu-	tions	Preparation of Anhydrous Vansdian Trifluoride		Sublimation Apparatus	Horizontal Sublimation Apparatus	Solvent Extraction Equipment	Method of Preparing Metal and Apparatus Therefor	Uramium-Titanium Alloys	Ribetrolutic Process for Bacouseins	Uranium Compounds from Carbonate Leach	America Comments and Security and	organia Companies from Supracting Horsess	Submerged Reactor	Resctor	Apparatus for the Bonhardsent of Samples with Past Neutrons	Electrolytic Cells	Hagnetic Arc-Welder	Electrodic Analyzer	Low Weight Container for Radioactive	Materials	Magnetic Field Measuring Device	Re-entrant Cooling Reactor	Separation of Plavonoid Compounds	2,745,006 Binary Counter	
2,743,158	2,743,159		2,743,161		2,743,168	2,743,169	2,743,170	2,743,173	2,743,174	2, 763, 222		2 762 591	profession in	2,743,224	2,743,225	2,743,226	2,743,228	2,743,342	2,743,371	2,743,372		2,743,416	2,744,064	2,744,893	2,745,006	

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D. W. Bareis	H. M. Peder, R. P. Larson, H. B. Evans	B. Peters	W. E. Glenn, Jr.	F. B. Quinem	J. F. Laimer		N. Ealm	T. R. Spalding	L. Spiegler		L. Spiegler	L. Spiegler	L. Spiegler	B. A. J. Lister, J. P. Duncan	B, A. J. Lister, J. P. Duncan	J. H. Yanger, K. S. Eckberg	E. P. Priest	P. E. Bell	J. T. Dalton, R. H. Stevens	2	Q. A. Eerus	E. E. Fosichi		G. S. Burst		
Method of Purifying Liquid Fuels of Nuclear Reactors	Mathod of Dissolving Stnary Alloys	Calutros Receiver	Time-of-Flight Mass Spectrometer	Inspection Conveying Apparatus	Process for Producing Steel by Electro-	forming and Carburization	Electrodeposition of Plutonium Pluoride	Leak Detector for Pipe Joint	Purification of Materials Containing	Chlorides	Dranium Products and Nethods of Using	Purification of Materials Containing Fluorides	Purification of Materials Containing Chiprides	Separating Bainium from Ilrondium	Separating Bainium from 21rconium	Solvent Extraction Apparatus Using Jet Mixers	Process of Tresting Steel	Pulse Analyzer	Arrangement for Minimising Begative	Signals	Hethod and Apparatus for Hessuring Electrical Current	Remote Bandifing Apparatus	Electrostatic Nemory System	Fast Neutron Dosimeter	Process for Production of Branks B. F. Priest Parallisoride	
2,758,023	2,758,024	2,758,213	2,755,214	2,758,706	2,758,950		2,758,963	2,759,175	2,759,788		2,759,789	2,759,790	2,759,791	2,759,792	2,759,793	2,759,801	2,759,886	2,760,064	2,760,076		2,760,158	2,760,655	2,761,063	2,761,071	2,761,756	
G. V. Zito	H. A. Wilhelm, K. A. Walsh, J. V. Kerrigan	J. W. Moyer, H. Burwitt, Jr.	D. A. Watt	M. E. Watley	E. J. Lofgren, W. W. Bukel	E. O. Lawrence	C. O. Moelhause, G. Z.		C. C. Wangh	J. J. Keyes, Jr.	E. D. Culnac	R. S. Edgett, A. O. Olson	D. Chalmers McLean	R. E. Bailes, R. S. Long	J. L. Patterson, A. Bell	G. Meister	E. E. Morris	W. E. McCorkie	K. Ensechau	R. H. Selkirk	G. T. Pelsor, H. S. Sack	N. M. Kapp, W. W.	C. F. Ritchie	J. M. Carter, M. D. Kanen	A. E. Ballard	
Counting-Rate Nater	Solvent Extraction of Eirocolum Values	Seutron Flux Messuring Device	Current Transfer Systems	Mixer-Settler	Source of Eighly Stripped lons	Calutrons of the Multiple Ion Sem Type	Newtron Scintillation Detector		Ground Indicator for Calutrons	Ionization Chamber	Counting Eate Meter	Denitration Apparatus	Process for Recovering Uranium and Vanadium from Ores	Dranium-Vanadium Recovery of Purifica- tion Process	Dranium Chlorication Process	Process of Vecum Refining Uranium	Metal Alloy	Positioning Device	Puel Charging Machine	Centrifuge Systems	Computing Device	Recovery of Pree and Combined Mitric Acid from Metal Mitrate Liquors	Automatic Piltration Equipment	Isotope Enrichment Process	Ether Extraction of Utanium Salt from Solutions	
2,752,508	2,733,250	2,753,462	2,753,476	2,754,179	2,754,422	2,754,423	2,755,253		2,755,387	2,755,391	2,755,441	2,755,853	2,756,122	2,756,123	2,756,124	2,756,138	2,756,489	2,756,857	2,756,858	2,756,925 -	2,756,930	2,757,072	2,757,799	2,758,006	2,758,007	

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D. E. Klein, H. B. Care	N. C. Bonse	W. I. Linlor, B. Bagent	A. F. Reid	W. E. Clifford, R. E. Burns	G. D. Pauson H. Moses	D. A. Set.:	R. S. Long, R. H. Bailes	L. Spiegler	R. H. Sailes, R. R. Orinstead	J. T. Serduke	E. P. Wigner, L. A. Ohlinger, A. M. Weinberg, G. J. Young	R. E. Thomas	M. L. Good	R. J. Klein	R. B. Robertson-Shereby-Bervie, J. Dain	A. V. Becker, A. V. Boker	D. G. Jeletis	L. Spiegler	R. Q. Boyer	M. D. Esmen, A. DeSnan, Jr.,		D. Wroughton
Messifacture of Oranium Tetrafluoride	Mothod of Purifying Uranism	Time-of-Flight Beutron Spectrometer	Method of Making a Product Containing Branium 137	Precipitation Process	Electronic Pressure Differential Wind	Direction Indicator Electromagnetic Interaction Pump	Recovery of Uranium from Phosphoric Acid and Phosphate Solutions by Ion Exchange	Separation of Uranium from Mixtures	Method of Purifying and Recovering Vanadium from Phosphate Containing Solutions	Reactor Circulating System	Beavy Unter Moderated Neutronic Reactor	Limited Amplifier	Linear Accelerator	Automatic Beam Stabilization	Wave Delaying Structure for Rectangular Wave Guides	Crucible and Stopper Therefor	Remote Control Manipulator	Manufacture of Uranium Peroxide	Processes for the Purification and Recovery of Dreadum	Improved Utenium Recovery and Purifit-		Method of Melting Netal Powder in Vacuo
2,768,872	2,768,873	2,769,094	2,769,776	2,769,780	2,770,128	2,770,196	2,770,520	2,770,521	2,770,522	2,770,590	2,770,591 ,7	2,770,684	2,770,775	2,770,736	2,770,781	2,770,856	2,771,159	2,771,338	2,771,339	2,777,340	4 400 000	4,1114,337
N. D. Kones, A. Dellass, Jr.		E. S. Delaven		C. R. Breden	W. E. Baker	P. C. Coertz, R. G. Schmitt, R. A. Olsen	C. L. Richardson, S. 3. Swith, G. S. Robbins	G. W. Kinzer, R. D. Morin	W. C. Struwen	R. S. Crewford, J. D. Gow, W. G. Pon, L. Ruby	G. Neister	C. S. Lows		W. E. Moyer, Jr., W. Miffilm	C. F. Eill, S. G. Thompson		R. E. Sailes, R. O. Lindblom, R. R. Crimstand		E. Fermi (Decessed), E. L. Anderson	T. J. O'Donnell	R. Q. Boyer	E. S. Brown, O. P. Hill, A. H.
Processes of Secovering Utentim	Process for Becovery of Utanium	Phistorical and Clarification has a section	Wetting of Reat Transfer Surfaces with Licosfied Netal Reat Transfer Media	Method of Preventing Corresion of Iron Metals	Spark Cap	Namote Control Manipulator	Purification of Uranium Oxida	Recovery of Uranium from Dilute Solu- tions by a Precipitation Method	Pulsed Oscillator	Ion Source	Impregnated Crucible	Method for Decontamination of Radio-	actively Contaminated Aqueous Solution	Leak Detection Apparatus	Plutonium Recovery Process Process of Constables and	Hickium Values from each Other	Process for Recovery of Ursaium and the Untrading of Alkali-Dranium Fluorida	Frecipitates	Testing Material in a Neutronic Reactor	Metallic Bond and Nethod	Heat Exchangers	Process Using Carbonate Precipitation
2,761,757	2,761,758	2,762,943	2,763,570	2,763,611	2,763,816	2,764,301	2,764,470	2,764,471	2,764,689	2,764,707	2,766,032	2,766,204		2,766,442	2,767,044	,	2,768,059		2,768,134	2,768,433	2,768,813	2,768,871

C. F. Hiskey, D. T. Vier		D. R. Branch, V. L. Smite,	H. O. Anger	M. Eplodney	R. W. Powell, P. E. Lee	8 P. H. Spedding, T. A. Butler	L. Srilard	H. D. Brown, P. J. Walter		G. 3. Rosai	C. J. Bockryski, F. M. Porter	A. S. Ballard	W. H. Zinn, T. Brill	C. J. Berkowski, F. M. Porter	C. A. Tobias, H. O. Anger	G. A. Kuipers	J. N. Toung	H. F. Devaney	na G. A. Lutz	A. J. Hiller, S. M. Pitt, P. P. Crieser	J. C. Nevenzel		B. J. Fontana	J. W. Gates, Jr., L. J.	Achieves
Corrosion Inhibitors for Deuterium	Exchings Process	Coexial Tube Coupling	In Vive Radiation Scenner	Preparation of Urasium	Lesk Detection System	Plutonium Alloy and Method of Separating It from Plutonium	Method for Unloading Reactors	Uranium Chelates of Df (Salicylal) Alkylenedifaint and Process for Taeir	Preparation	Cyclotron Square Wave RF System	Electrostatic Pulse Analyzer System	Recovery of Brankum from Wash Liquids	Control Device for a Meutronic Reactor	Calvanometer Pulse Analyzer System	Radiosctivity-Distribution Detector	Vacuum Gauge	Two Roller Anti-Priction Latch	Combination of Acceleration Sensing and Integrating Means	Method of Recovering Uranium from Aqueous G. A. Lutz	Solutions Method for Improved Precipitation of Meanium Describes	Chemical Purification of Dranium	Compounds	Separation of Uranium from Foreign Substances	Process for Secovery of Dranium from	Aqueous Solutions
2,776,263		2,776,368	2,776,377	2,777,809	2,777,812	2,778,730	2,778,792	2,778,843		2,778,937	2,778,949	2,779,657	2,779,728	2,779,875	2,779,876	2,780,099	2,780,112	2,780,455	2,780,514	2,780,515	2,780,516		2,780,517	2,780,518	
C. N. Vieningstad, Q. A. Kerns	R. Q. Boyer	R. Cumings		E. O. Lawrence, O. A. Kerns .	E. O. Swickerd, Jr.	2. Q. Boyer, S. B. Eliner	J. J. Coett (Deceased)	R. Q. Boyer, S. B. Kilner F. A. Newcombe	N. C. Beese, J. W. Marden,	E. Orange	2. Cumings	R. C. Courtz, R. A. Olsen,	M. S. Wehrle, E. G. Schmiff, Jr.	G. J. Young	H. E. Datey	E. S. Robinson, A. C. Briesmeister, 3. B. McInteer	R. Q. Boyer	1. 7. Thesis	R. Badey	P. R. Bell, G. 6. Kelley, C. G. Goss	P. I. Corbell	M. D. Kasen	L. B. Werner, B. A. Pries,	G. T. Seaborg	F. V. Winn
Phase Noter	Piltering Apparatus	ng Uranium from	Solutions	Beam Regulator	Liquid Level Indicator	Electrolytic Process of Salvaging Dramium	Safety Device for a Meutronic Reactor	Electrolytic Cells Flactrolytic Cells	for the Recovery		Filtering Apparatus	Remote-Control Manipulator		Meutronic Reactor Baying a Flattened Activity Curve	Method of Messuring Q	Mercury Bellows Pump	ses for	Reducing Uranium in Solution	Crystal Diode Coincidence Circuit	Maltichannel Pulse Analyzer	Phase Shifting Davice	Processes for Recovering and Purifying	Method of Concentrating Fissionable	Material	Nitric Acid Recovery and Putification
2,771,582	2,771,999	2,772,142		2,773,195	2,773,386	2,773,820	2,773,623	2,773,826	2.773.826	analogy to	2,774,479	2,774,488		2,774,730	2,774,937	2,775,399	2,775,552 .	3 774 606	2.775.697	2,775,698	2,775,741	2,776,184	2,776,185		2,776,189

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	J. E. Carter, T. A. Butler		L. L. Marsh, Jr., W. Chubb	J. Ise, Jr., G. P. Hillburn	A. Chiorso, A. E. Larsh, Jr.	T. A. Butler	H. S. Brown, Q. P. Sill	H. A. Wilhelm		F. H. Spedding, H. A. Wilhelm, W. H. Keller	E. O. Lawrence	S. G. Thompron, G. I.	C. E. Prescott, Jr.,	(wecomed), J. A. Bolines	L. Ruby, R. B. Crawford, W. G. Pon	S. H. Wender, D. W. Fox	J. S. Speweck	W. A. Winsten, I.	F. E. Spedding, H. A. Wilhelm	W. A. Bilbeln	F. E. Spedding, H. A. Wilhelm,	N. H. Keller		A. S. Michie	K. G. Bacleish
	Separation of Dramium from Other Metals J. E. Carter, T. A. Butler By Hydriding and Extracting with	Oxidizing	Lirconium Ternary Alloys	Gas Recovery System	Pulse Height Analyzer	Separation of Branium from Other Metals by Eydriding	Method of Separating Flutonium from Contaminants	Method of Forming Crucibles and Resetton H. A. Wilhelm	High Purity	Nethod of Producing Metals from Their Balides	Low Voltage Jon Source	Bismuth Phosphate Process for the Sepa- ration of Plutonium from Aqueous Solutions	Preparation of Uranium Metal	Course that he washed a second	source wate for Fromscing Johnson Cass	Properation of Flavonoid Glucosides	Method of Isotope Concentration	Method for Determining Boron Fluoride Ether Complex in a Composition	Process for Melting and Refining Ursaius	Mathod of Producing Metal	Production of Uranium	Taothea Technics Process	Marked and Mann of Production Cross to	Neutronic Restrors	Electromagnet Regulator
- 100 000	2, 704, 024		2,784,084	2,784,799	72,784,910	2,785,046	2,785,047	2,785,064		2,785,065	2,785,311	2,785,951	2,785,972	2 786 143	Charleson in	2,786,832	2,787,526	2,787,529	2,787,536	2,787,537	2,787,538	2.787.587	2,787,593		2,787,737
	D. Kaufman, S. E. Bailey	R. M Bainer, S. C. Evers	A. K. Brewer, I. Ivan Taylor	E. Ferni (Deceased)	G. A. Anderson	R. Q. Boyer, S. B. Kilner	E. A. Wilhelm, D. H. Absum	5. P. Wigner	E. C. Creutz, W. H. Zinn	J. S. Levinger, M. B. Sampson, A. H. Snell, R. G. Wilkinson	W. C. Struven	E. J. Lofgran, P. Fairbrother, Jr.	J. Entwistle	J. J. Brunner	D. X. Elein, W. V. Wirth	F. H. Spedding, H. A. Wilhelm, W. H. Keller	E. A. Wilbelm, C. P. Gray	J. A. Wheeler E. A. Wilhelm, C. F. Gray	E. V. Lichtenberger, L. J.	Foch	W. E. Appleton, G. M. Ferly	A. T. Pink	W. A. Sene	W. P. Jaker	
	Recovery of Drantum from Ores	Uranium Separation Process	Still Column with Concentric Condenser	Test Exponential Pile	Neutronic Reactor	Process of Recovering Uranium from Solution.	Electrodeposition of Branium	Apparatus for the Measurement of Seutron Absorption	Neutronic Resetor Control	Radiation System	Gating Circuit	Ion besm Receiver	Pump Cylinder Assembly	Uranium Recovery Process	Recovery of Metal Salts from Mixtures	Method of Preparing Metals	Hethod of Reclaiming Uranium	Neutronic Reactor. Apparatus for Vacuum	Follow-Up Mechanism		Automatic Control System with Remote Adjustment	Pressure Switch	Righ Speed Positive Pulse Generator	Regulated Fower Supply	三世 日本の主
	2,780,519	2,780,532	2,780,589	2,780,595	2,780,596	2,781,303.	2,781,304	2,781,307	2,781,308	2,781,309	2,781,448	2,781,452	2,782,081	2,782,091 .	2,782,092	2,782,116	2,782,117	2,782,475	2,782,941		2,782,993	2,783,320	2,783,376	2,783,433	

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2,783,656	Means for Investigating Gases	H. H. Sander	2,792,634	Tolerance Inspection wage	de La Courty Co December 1000
2,709,072	Heat Treated Dranium Alloy and Method	D. W. White, Jr.	2,793,309	Neutron Proportional Counter	J. A. Simpson, Jr.
	of Preparing Same		2,793,753	Removal of Naterial from Processing Tanks D. S. Webster	D. S. Webster
2,789,221	Method and Apparatus for Nuclear Particle C. W. Toble: Acceleration	C. W. Tobies	2,794,562	Fuel Element Loading Apparatus for Neutronic Reactors	G. A. Anderson
2,769,222	Frequency Modulation System	M. D. Martin, K. R. MacKenzie, W. W. Palisades, W. W. Saisig	2,794,670	Releasable Holder for Rod	R. L. Menegus, R. L. Akers
2,789,229	Ion Producing Mechanism	E. O. Lawrence	2,794,923	Electromagnetic Apparatus	5. W. Barnes
2,709,688	Sample Holder	W. J. Stinson	2,795,479	Method for Converting Brantum Asmonlum Phosphate to Branyl Fluoride	S. Bernstein, E. A. Bernhardt
2,789,878	Protectinium Extraction Process Recovery of Greatum from Phosphoric Acid	D. F. Peppard D. Kaufman	2,795,480	Recovery of Uranium from Aqueous Phos- phate Containing Solutions	E. F. Stephan, G. A. Lutz
2,789,884	Method of Preparing Pure Boric Oxide	C. J. Fodden, A. R. Eberle	2,795,481	Solvent Extraction Process for the Sepa- ration of Tantalum and Michium Values	H. G. Hicks, W. E. Nervik, P. C. Stevenson
2,789,897	Magnesium Reduction Process for Produc- tion of Uranium	C. B. Savyer, B. R. F. Kjellgren	2,795,482	Absorption of Indino Vapor	R. M.Sabney
2,790,006	Radiation Detecting and Measuring System	H. C. Beyer, W. J. Stinson	2,795,499	Production of Metals	D. Peterson
2,790,149	Dielectric-Loaded Wave Cuides	R. S. Bobertson-Shersby-Sarvie,	2,795,654	High Impedence Electronic Circuit	J. R. Macdonald
4 700 700	Peaces of Baccare to Branius	L. S. Mallett	2,795,703.	Apparatus for Counting Past Neutrons in the Presence of Gamma Rays	I. S. Berlman, L. D. Marinelli
2,790,760	Neutronic Resctor	E. W. Powell	2,795,704	Neutron Ion Chamber	H. B. Bryent, G. F. Erickson, S. G. Kaufman
2,790,761	Neutronic Reactor	L. A. Ohlinger	2.796.320	Solvent Extraction Process for Purifil-	F. H. Spedding, A. East
2,790,902	Ion Accelerator Seam Extractor	B. T. Wright		cation of Thorium	
2,790,919	Ionization Chamber for Fission Counting	J. E. Lytins, M. J. Bartius, H. A. Kernicle	2,796,323	Conversion of Dimethyl Ether Boron Triflooride Complex to Potassium Fluoborate	A. 2. Eberle
2,790,931	Electrostatic Namory System	R. W. Schunson	2,796,330	Method of Separating and Concentrating	R. H. Orist, I. Kirsbenbum
2,790,949	Thermionic Ionization Vacuum Gauge	O. H. Ottinger, R. R. Reczell		. Isotopes of Boron and Oxygen	
2,791,119 .	Liquid Level Indicator	W. H. Zinn, J. M. Sarrer	2,796,392	Process and Electrolyte for the Electro- deposition of Elrconium	M. H. Lietzke
2,791,371	Radio Frequency Ion Pump	J. S. Foster, Jr., F. Fairhrother, Jr.	2,796,393	Process of Recovering Uranium from Calutron Wash Solutions	R. Q. Boyer
2,791,372	1	A. A. Abbatfello	2,796,396	Method of Intermittently Operating a	L. Szilerd
2,792,412	Recovery of Ruthenium from Agueous	H. R. Schmidt, R. L. Moore		Neutronic Reactor	
2,792,535	Timing Circuit	W. C. Straven	2, 796, 398	Means for Sustaining a Nuclear Fission Chain Reaction	E. C. Creutz, L. A. Chiinger, E. P. Wigner, G. J. Young

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7. Horgan	F. Norgan	E. Burvitz, Jr., H. Brooks, C. Bannal. J. E. Pavne. E.	A. Luchka	R. E. Beller, H. M. Ouren,	R. S. Kimbell, R. A. Eving	T. B. Carrey, M. H. Toylor	P. W. Levy	J. F. Bonstead	I, H. Oufan	R. Seegniller	H. L. Fishbine, C. Sewell, Jr.	W. E. Leyshon	W. D. Bowell	C. M. Cooper	R. Kalibjian, V. Peres-Kandez	J. N. Young	C. A. Buggles	R. A. Blongren, N. J. G.	Pohlin P. P. Poulse	N. Artit	W. J. Arrol, S. Jefferson	J. E. Bandwark, R. A. Boland, D. E. Walker	S. Pried, H. R. Devidson
Method of Separating Plutonium	Method of Separating Flutonium	Seutronic Reactor Puel Element		Pulse Transformer	Uranium Recovery from Ores with	Eydrochloric Acid and Acetons Marking Fluoroscope Head	Crystal Dosimeter	Proportional Wests Line Sampler	Compound Action Gain Control	Gold Plating Process	Stabilized Peedback Amplifier	Method and Apparatus for Collecting	Isotopes Automatic Counting Apparatus	Reactor Unloading Means	One Shake Gate Former	Electromagnetic Apparatus for Moving a Rod	Ocaping Apparatus	Arrangement for Replacing Filters	Production of Brantum Bayasi morida	Automatic Light Control	Cas Discharge Devices	Urenium-Oxide-Containing Fuel Element Composition and Nethod of Naking Same	Conversion of Plutonium Trifluoride to Plutonium Tetrafluoride
2,799,554	2,799,555	2,799,642		2,799,836	2,800,387	2,800,588	2,800,589 .	2,800,797	2,801,302	2,801,960	2,802,070	2,802,108	2,803,405	2,803,601	2,803,748	2,803,761	2,803,885 -	7,804,165	2,804,369	2,804,550	2,804,573	2,805,473	2,805,916
R. E. Zirkle, M. J. Curtis	W. W. Schulz, R. A. Satts, Jr.		K. G. Macleish	M	P. J. Sullivam, E. J. Bair, J. H. Allem	J. J. Bata	W. F. Arendale, C. F. Coleman	P. H. Spedding, N. A. Wilhelm,		W. J. Smith, R. W. Jones	N. F. Moody	E. G. Miller, Jr.	J. Greenspan, A. S. Carlson	R. H. Poirier	S. Untermyer	L. K. Heher	H. C. Heard, W. W. Salsig, Jr.	J. S. Poster, Jr.	J. S. Foster, G. E. Baddeland	F. H. Spedding, E. J. Wheel- wright, J. E. Powell	E. Formi, L. Szilard	K. H. Kingdon	S. G. Thompson, G. T. Seeborg
Radiation Shield	Separation Process by Absorption	Radiation Shield	Remote Adjustment of Automatic Control	System	Carbon Burner	Method of Reducing Reavy Metal Terra- halides	Uranium-Vanadium Recovery and Separation by Phosphata Precisitation			Filter Media and Method of Haking	Trigger Circuit	Transistor Oscillator	Method of Determining Small Quantities of Uranium Compounds in a Gas Stream	Recovery of Uranium from Aqueous Solu-	ble E-Ray or Campa Source		Accelerator Target Positioner	Pumping lon Source	Steam Power Plant with Means for Heavy Mater Concentration	Method of Separating Rare Earths	Method of Operating a Neutronic Resctor	Meutronic Reactor Puel Element	Phosphate Method for Separation of Radioactive Elements
2,796,411	2,796,424	2, 796, 529	2,797,050		2,797,081	2,797,142	2,797,143	2,797,160		2,797,163	2,797,319	2,797,328	2,797,983	2,798,084	2,798,164	2,798,165	2,798,178 .	2,798,181	2,796,359	2,798,789	2,798,847	2,798,848	2,799,553

7. S. 100%, 2, 810,639 Fluid Moderated Stattor 7. A. M. Wainberg 2,810,639 Fluid Moderated Stattor 7. A. M. Wainberg 2,811,411 Method of Producing Uranium Berafluor 8. A. M. Wainberg 2,811,412 Method of Producing Uranium Compounds 8. M. T. Jackson 2,811,414 Pluorination Producing Uranium Compounds 8. M. F. Jackson 2,811,414 Process for Froducing Uranium Compounds 9. M. F. Jackson 2,811,415 Extraction Method of Separating Uranium, Pluorination Producing Uranium, Pluorination Method of Separating Uranium Pluorination Method of Separating Uranium Pluorination Occassed), 7. M. A. Method 2,811,233 Pluorination Separation of Seals Formation Uranium Purification Process 7. 811,001 Uranium Purification Process 8. M. J. Lowe 2,811,002 Uranium Purification Process 9. M. J. Lowe 2,811,003 Uranium Purification Process 9. M. J. Method Seals Servering Flutonium from Impurifies Separating Process 1. 8. Process for Separating Plutonium from Impurifies Separating Process 1. 8. Process for Separating Pluorium from Impurifies Separating Process 1. 8. Process for Separating Pluorium from Impurifies Separating Process 1. 8. Process for Separating Pluorium from Impurifies Separating Pluorium Purification Process 1. 8. Process for Separating Pluorium from Impurifies Separating Pluorium Pluori	19			The second second	The second secon	-
Consisting Art Inn Sources 1.5. Froter, Jr. 2,810,626 Process for Producing Denature Received Tracks Receiv		Electrodeposition of Flutonium	P. J. Wolter	2,809,931	Seutronic Reactor System	F. Deniels
Process for freeing Cross The Miles Recovery and Purification Process 1. E. Bailes, R. S. Long, The Miles Recovery and Purification Process 2. E. Coffessed Light Water Moderated Seator Light Water Moderated Seator Quartz Fiber Sideratesope R. P. Midney Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Quartz Fiber Sideratesope R. P. Miles R. D. Lindblom Process for Producing Greates Containing Scan Process for Producing Greatesope R. J. Frend (Docessed), L. R. Preming, R. P. Jackson Thermal Moderate Solution of an Acti- R. M. Frending, R. P. Jackson Life-Above-Cround Attenuator R. Partz (Docessed), L. R. Miles Freducing Office States Statesope R. P. Miles Treduction of Thoris Water Righ Fower Police States Statesope R. P. Miles R. Profit Statesope Righ Fower Disease Courtest Statesope Righ Fower Statesope Righ Fower Disease Courtest Statesope Righ Fower Disease Right Fower Statesope Righ Fower Disease Right Fower Statesope Right Fower Statesope Right Fower Statesope Righ Fower Statesope Right Account Management Statesope Right Account Management Statesope Right Account Statesope Righ Account Statesope Righ Account Statesope Right Account Statesope		Coasting Are Ion Source	J. S. Poster, Jr.	2,810,626	Process for Producing Brazius Bezafluor- ide	R. D. Fowler
Puring Recovering and Particlation Process R. H. Builte, R. S. Long, Training Scorety and Particlation Process R. H. Suilte, R. S. Long, Training Scorety and Particlation Process R. P. Officiary A. M. Walnham, Restraining Small Production of High Practy Unclaim Restraining Small Process State Process State Process State Producting Restrain Compounds (Quartz Fiber Sisternance Reservance R. P. Higher Process State Recovery of Unclaim and D. A. Hills, R. D. Lindblom Process State Production of as Active. R. J. Forming, R. P. Jackson Process State Production of as Active. R. J. Forming, R. P. Jackson Process State Production of as Active. R. J. Forming, R. P. Jackson Process State Recovery of Unclaim State Restraining Process State State R. J. Forming, R. P. Jackson Process State Recovery State State R. J. Forming, R. P. Jackson J. Sill, 415 Process State State State State Restraining December Solutions of Saperstring December Siller And Process State State Restraining December Solutions of Sale State State Restraining December Solutions of Sale State Restraining December Solutions December Sol		Amti-Swing Crane	R. C. Coerts	2,810,689	Fluid Moderated Seactor	E. P. Wigner, L. A. Chiinger,
Age transference betweeted Buttonic Baseton B. P. Christy, A. N. Wainberg 2,811,412 Method of Processing Monaits Sand Charlested Buttonic Baseton B. P. S. Christy, A. N. Wainberg 2,811,412 Method of Processing Monaits Sand Charlested Buttonic Baseton B. P. S. Sanders B. P. P. Sanders B. P. Sanders B. P. Sanders B. P. Sanders B. P. P. Sande		Uranium Recovery and Purification Proces	S. H. Bailes, R. S. Long,			G. J. Young, A. M. Weinberg
Secretaries		and Production of High Furity Brahium Tetrafluoride	E. E. Grinsteso	2,810,828	Pulse Amplitude Analyzer	G. W. Gray, A. S. Jensen
Secretarious pastern S. P. Wigner 2,811,412 Notes for Process for Producing Urenium Divisors		Light Water Moderated Westronic Reactor	R. P. Christy, A. M. Weinhers	2,811,411	Method of Processing Monarite Sand	G. D. Calkins
Weiding Process Weiding Weidi		Mestronic Reactor	E. P. Wigner	2,811,412 .	Method of Recovering Uranium Compounds	R. H. Poirter
Process for Recovery of Urenim and P. A. Elife, R. O. Lindblom (2,811,415) Process for Producing Descripting Description of Management (2,811,415) Process for Producing Description of Continuing Same Process for the Production of an Acti- N. J. Polisast Vascal Process for the Production of an Acti- N. J. Polisast Vascal Process for the Production of Continuing Same Process for the Production of an Acti- N. J. Polisast Thermal Nacional Process of Removing Platonian Nature Solution of Continuing Same Process for the Production of Management Salinace C. W. Research Salinace Continuing Same Salinace Continuing Salinace Continuin		Quartz Fibre Electroscope	R. P. Benderson	2,811,413	Fluorination Process	T. S. McHilles
Process for Recovery of Urenium and Paralism and Reduction-Precipitation Products of Speciation by Reduction-Precipitation of an Acti- Reduction of Uny Production of an Acti- Reduction of Uny Reduction of Activities and Activities and Activity Reduction of Uny Reduction of Uny Reduction of Thoris National Reduction Reduction of Thoris National Reduction of Thoris Reduction of Thoris National Reduction of Thoris National Reduction of Thoris National Reduction Reduction of Thoris National Reduction Reduction of Thoris National Reduction Reduction Reduction Reduction Reduction Reduction Reduction		Welding Process	J. Zambrow, H. H. Esusner	2,811,414	Process for Producing Uranium Ealides	E. V. Marphree
Process for the Production of an Acti- W. J. Polissar vated Form of UD ₂ Itemsal Nuclear Ecactor E. Permit (Decessed), L. Relation of Composition of an Acti- Relation of Composition of C. W. Remains, R. F. Jackson Relation Composition E. Permit (Decessed), L. S. Singer, L. R. Maker C. W. Restcher C. W. Restcher C. W. Restcher S. Singer, L. R. Maker C. W. Restcher C. W. Restcher	19 7	Process for Recovery of Uranium and Vanadium from Carbonate Solutions by Reduction-Precipitation	D. A. Ellis, R. O. Lindblom	2,811,415	Extraction Method of Separating Drankus, Flutonium, and Pission Products from Compositions Containing Same	G. T. Seaborg
Thermal Nuclear Reactor E. Permit (Decessed), L. Stilard Pulse Generator High Fower Pulsed Oscillator S. Singer, L. K. Moher Line-Above-Ground Attenuator Line-Above-Ground Attenuator P. Williams Line-Above-Ground Attenuator P. Williams Line-Above-Ground Attenuator P. Williams Line-Above-Ground Attenuator P. Williams Line-Above-Ground Attenuator Process for Treating Volatile Metal A. J. Redge, A. J. Lowe Process for Treating Volatile Metal A. J. Stome, Jr., E. B. Solvent Extraction Process Line-Above Bactor Process for Treating Volatile Metal A. J. Redge, A. J. Lowe Place Conting Beactors Line-Above Ground Attenuator Process for Treating Volatile Metal A. J. Redge, A. J. Lowe Process for Treating Volatile Metal A. J. Stome, Jr., E. B. Solvent Extraction Process Line-Above Ground Attenuator Process for Treating Volatile Metal A. J. Redge, A. J. Lowe Process for Treating Porting Process Line-Above Ground Attenuator Process for Treating Porting Process Line-Above Ground Attenuator Process for Treating Porting Process Line-Above Ground Attenuator Process for Treating Process Line-Above Ground Attenuator Process for Treating Process Line-Above Ground Attenuator Process for Treating Process Line-Above Ground Attenuator Line-Above Ground Attenuator Process for Treating Process Line-Above Ground Attenuator Line-Above Ground	1000	Process for the Production of an Activated Form of UD,	M. J. Polissar	2,811,416	Process of Removing Flutonium Values from Solution with Group IV3 Metal Phospho-Silicate Compositions	E. R. Bussell, A. W. Admmson, J. Schubert, G. E. Boyd
Neutronic Pasetor E. Ferral (Docessed), L. Saliard Fulse Generator High Fower Policed Oscillator S. Singer, L. K. Noher L. S. Singer, L. K. Noher Solvent Extraction Process Solvent E	18	Thermal Nuclear Reactor	P. W. Fenning, R. F. Jackson	2,811,423	Redistributor for Liquid-Liquid Ex-	J. G. Bradley
Pulse Cemerator Eigh Fower Pulsed Oscillator S. Singer, L. K. Maher 2,811,923 Prevention Scale Formation in Breatont Solvent Electromagnetic Fump Line-Above-Cround Attenuator Froduction of Thoris Wars Production of Thoris Wars Process for Treating Volatile Metal A. J. Endso, A. J. Lowe Plucides Electronic Digital Computer Warning Process Electronic Digital Computer Mem, E. S. Bettis Solvent Extraction Process A. J. Stone, Jr., E. R. Solvent Extraction Process A. Jones Bestronic Reactor A. Jones Bestronic Reactor A. Jones Bestronic Reactor Bestronic Reactor A. J. Douks C. Stannalls Process for Separating Plutonium from Papurities Production of Urenium Production of Urenium Production of Urenium Production of Urenium Production of Conducting a Person Setwess Production of Conducting a Pers	3034	Meutronic Reactor	E. Ferni (Decessed), L.		traction Columns	
Fulse Generator Fulse Consertor High Fower Pulsed Oscillator S. Singer, L. K. Maher Lina-Above-Cround Attenuator Lina-Above-Cround Attenuator E. Ferral (Decessed), Lina-Above-Cround Attenuator E. Ferral (Decessed), Lina-Above-Cround Attenuator E. B. Wilden, J. R. Ames Lina-Above-Cround Attenuator P. Marray, L. E. Dencon, Process for Treating Volatile Metal A. J. Endge, A. J. Lowe Pluorides Electronic Digital Computer B. B. Wildians C. 813,001 Tranium Purification Process Pluorides Electronic Digital Computer Mam., E. S. Bettis Solvent Extraction Process Mam., E. S. Bettis Solvent Extraction Process Match Aluminum Crebonate Leaching Plutonium from Impurities Westroodic Reactor R. E. Metcalf 2,813,003 Attains Derivating Plutonium from Impurities Production of Gendecting a Person Setvess A. A. Jonks O. J. C. Rampalls 2,813,002 Metalian of Conducting a Person Setvess Z.813,002 Metalian or Beryllium Z.813,002 Metalian of Conducting a Person Setvess Z.813,002 Metalian or Beryllium Z.813,003 Z.813,003 Z.813,004 Z.813,004 Z.813,005 Z.813,005 Z.813,005 Z.813,005 Z.813,006 Z.813,006 Z.813,006 Z.813,006 Z.813,007 Z.			DYSTER C	2,811,487	Heutron Reactor Saving a Le ¹³⁵ Shield	H. E. Stanton
High Fower Pulsed Oscillator S. Singer, L. K. Hehar 2,812,222 Prevention of Scale Formation in Description of Scale Formation in Description of Scale Scription of Scale Scription in Description of Thoris Ware B. B. Wilde, J. R. Ames 2,812,233 Atomic Power Plant Process for Treating Volatile Metal A. J. Radge, A. J. Lows 2,812,304 Means for Cooling Reactors Pluorides Trocess for Treating Volatile Metal A. J. Stone, Jr., E. R. 2,813,001 Uranium Purification Process Name, E. S. Settis 2,813,003 Oranium Purification Process Solvent Extraction Process A. A. Jones A. A. Jones Betreating Plutonium from Department Extraction Process Englishment Extraction Englishment Extraction Process Englishment Extraction Englishment Extraction Process Englishment Extraction Englishment	(800)	Pulse Generator	C. W. Roeschke	2,811,923	Pirect Current Electromagnetic Pump	A. H. Barnes
Newtronic Reactor Shield W. H. Z. Zinn Line-Above-Cround Attenuator E. S. Wilds, J. R. Ames Line-Above-Cround Attenuator P. Marray, I. E. Denton Process for Treating Volatile Metal A. J. Rudge, A. J. Love Placess for Treating Volatile Metal A. J. Stone, Jr., E. R. Z,812,303 Atomic Power Flant A. J. Rudge, A. J. Love Z,812,003 Traduction of Treating Process Bleetronic Digital Computer Mem., E. S. Bettis Z,813,003 Albalian Carbonate Leaching Process for Uranium Purification Process Z,813,003 Attains Purification Process Z,813,003 Attains Extraction Solvent Extraction Solvent Extraction Process R. E. Metcalf Method of Alloying Reactive Metals Vith Alaminam or Beryllium Z,813,002 Method of Conducting a Person Between		High Power Pulsed Oscillator	S. Singer, L. R. Meher	2,812,232	Prevention of Scale Pormation in	J. W. Delaplaine
Line-Above-Cround Attenuator E. S. Wilde, J. R. Ames 2,812,303 Atomic Power Plant Production of Thoris Ware D. Wilkinson Process for Treating Volatile Metal A. J. Rodge, A. J. Lowe 2,812,304 Weans for Cooling Beactors Pluorides Electronic Digital Computer Mam, E. S. Bettis Solvent Extraction Process A. A. Jonke Neutronic Reactor Neutronic Reactor B. E. Matealit 2,812,304 Atomic Power Plant 2,812,304 Weans for Cooling Beactors Line Means for Cooling Process 2,813,002 Analian Purification Process A. A. Jonke Solvent Extraction Process A. A. Jonke Rectronic Reactor Neutronic Reactor Neutronic Reactor Man, E. S. Matealit A. J. C. Ramalis 2,813,003 Production of Dranium Vith Alaminam or Beryllium 2,813,022 Method of Conducting a Person Detween 2,813,022 Method of Conducting a Person Detween	523	Meutronic Reactor Shield	E. Ferni (Decessed),		Dranium Solvent Extractor	
Line-Above-Ground Attenuator E. S. Wilds, J. R. Ames 2,812,303 Atomic Power Plant Production of Thoris Ware D. Williamon 2,812,304 Heans for Cooling Beactors Process for Treating Volatile Metal A. J. Rudge, A. J. Lowe 2,813,001 Uranium Purification Process Fluorides Silvent Extraction Process Solvent Extraction Process A. A. Jonks Solvent Extraction Process for Septrating Plutonium from Extraction Process O. J. G. Rumnalls J. 2,813,004 Process for Septrating Plutonium from Emphrities Sector Sec			W. fiv Collin	2,812,233	Motal Extraction Process	G. W. Levis, Jr., D. E. Shodes
Production of Thoris Ware P. Marray, I. E. Denton, Production of Thoris Ware D. Williamon Process for Treating Volatile Metal A. J. Rudge, A. J. Lowe 2,813,001 Uranium Purification Process Electronic Digital Computer Mann, E. S. Dettis Solvent Extraction Process A. A. Jonka Neutronic Reactor R. E. Metcalf Match of Alloying Rescrive Metals O. J. C. Rammalls 2,813,002 Process for Cooling Besctors A. A. Jonka 2,813,003 Alkaliam Extraction Process A. A. Jonka R. E. Metcalf Wethod of Alloying Rescrive Metals O. J. C. Rammalls J. 813,002 Method of Conduction of Dremium Vith Alamian or Beryllium 2,813,002 Method of Conducting a Person Between		Line-Above-Cround Attenuator	E. S. Wilds, J. R. Anes	2,812,303	Atomic Power Plant	7. Dentels
Process for Treating Volatile Metal A. J. Endge, A. J. Lowe 2,813,001 Utanium Purification Process Fluorides Electronic Digital Computer Mem, E. S. Bettis 2,813,003 Alkalina Carbonate Leaching Process Solvent Extraction Process A. A. Jonks Neutronic Reactor R. E. Metcalf Method of Alloying Rescrive Metals O. J. G. Rammalls 22,813,018 Production of Utanium Tron Utanium and Discussion Detains 2,813,018 Production of Utanium 2,813,012 Method of Conducting a Person Detains 2,813,022 Method of Conducting a Person Detains		Production of Thoris Ware	P. Marray, I. E. Dentou, D. Wilkinson	2,812,304	Means for Cooling Reactors	J. A. Wheeler
Fluorides Fluorides Electronic Digital Computer J. J. Stone, Jr., E. R. Electronic Digital Computer Mean, E. S. Dettis Solvent Extraction Process A. A. Jonks Neutronic Beactor Method of Alloying Rescrive Metals O. J. C. Remnalls J. 813,002 Process for Separating Plutonium from Impurities Induction of Dramium T. 813,003 Production of Oremium T. 813,003 Production of Oremium T. 813,003 Production of Oremium T. 813,003 T. 813,00		Process for Treating Volatile Metal	A. J. Endge, A. J. Loue	2,813,001	Uranium Purification Process	J. R. Ruhoff, C. E. Winters
Electronic Digital Computer J. J. Stone, Jr., E. R. 2,813,003 Albaline Carbonate Leaching Process for Uranium Extraction Solvent Extraction Process A. A. Jonks A. A. Jonks T. S. Matcaif Extraction Trocass for Separating Plutonium from Impartitles Rectronic Beactor R. E. Matcaif J. S. Matcaif T.		Pluorides		2,813,002	Uranium Purification Process	C. Z. Winters
Solvement Extraction Process A. A. Jonks 2,813,004 Process for Separating Flutonium from Restronic Reactor Rectronic Reactor Method of Alloying Reactive Metals 0. J. G. Remnells 19 2,813,018 Production of Dramium with Aluminum or Beryllium 2,813,022 Method of Conducting a Person Between	F28	Electronic Digital Computer	J. J. Stone, Jr., E. R. Menn, E. S. Bettis	2,813,003	Alkaline Carbonate Leaching Process for Uranium Extraction	A. Thumses, E. A. Brown, A. T. Babbitts
Neutronic Restor N. E. Metcaif Nethod of Alloying Rescrive Metals O. J. G. Rumanis 33 Z,813,018 Production of Dramium vith Aluminum or Beryllium 2,813,022 Method of Conducting a Person Between	1922 3	Solvent Extraction Process	A. A. Jonks	2,813,004	Process for Separating Plutonium from	A. C. Wahl
Method of Alloying Rescrive Metals 0. J. C. Rammalls 19 2,813,018 Production of Dramium with Alominum or Beryllium Person Between 2,813,022 Method of Conducting a Person Between	12	Neutronic Reactor	H. E. Metcelf		mpurities	
2,813,022 Method of Conducting a Person Setween	200	Method of Alloying Reactive Metals	O. J. C. Emmalis 25	2,813,018	Production of Branium	A. S. Buehle, J. W. Stevenson
a Safe Region and a Dangerous Region		with Alenieum or Beryllium		2,813,022	Method of Conducting a Person Between a Safe Resion and a Danzerous Resion	E. A. Boulthrop

M. H. Furnan, R. J. Mandy N. E. Samilton	W. J. Eusno R. W. Pisher	B. T. Rogers, Jr., W. C. Davis	C. W. Skarstrom	B. B. Cumingham		W. C. Wilson, L. Slotin, W. P. Overbeck, D. K. Fronse	R. Creveling	R. S. Scal	M. J. Statemen, H. R. Bollowy	H. Bradner, H. S. Gordon	M. C. Sanz, C. R. Malmatrom, J. M. Mading, H. P. Yockey	J. G. Backus	J. D. Thernton	J. A. DeShong, Jr.	R. J. Britten	E. I. Miller	E. L. Amonette, G. W. Rodecra	L. E. Pope	J. L. Dreher, S. G. Thompson
Extraction of Uranyl Mitrate from Aqueous Solutions Refractory Article and Process of Man- facturing Same	Reactor Control Method of Recovering Thorium	High-Speed Camera	Seal for High Speed Centrifuge	Practional Distillation Separation of Plutonium Values from Light Element	Values	Means for Chutrolling a Suclear Reactor	Shock-Excited Oscillator	Spark Gap Switch	Mon-Destructive Flaw Detection Apparatus M. J. Stateman, H. R. Bolloway	Device for Control of Oxygen Partial Pressure	Mathod for Sealing the Porce in a Carbon Body	Ion Source for a Calutron Cas Materine Press	Liquid-Liquid Extraction Columns	Logarithmic Ampliffer	Velocity Selector Method for the Sepa-	Method of Making a Refractory Naterial	Automatic Calibrating System for Pressure Transducers	Acceleration Integrator	Plutonium Separation Method
2,816,005	2,816,068	2,816,476	2,816,704	2,816,813		Z,816,880	2,817,019	2,817,036	2,817,060	2,817,350	2,817,605	2,817,763	2,818,324	2,818,504	2,818,507	2,818,605	2,818,726	2,819,053	2,819,143
A. Clark E. Perhi (Decessed), M. C. Leverett	H. A. Salder (Decembed), J. E. Keeler, Z. E. Stundchowki	J. D. Boffman, J. K. Ballou	I. E. Brenholdt	C. Starr	C. C. Loomis, W. J. Ash	A. S. Langsdorf, Jr.	P. S. Coulding	N. E. Hamilton		W. H. Duckworth	A. Thunses, S. A. Brown, H. W. Smith, R. Sinard	G. L. Bridger, M. E. Wastley, K. G. chau	G. D. Calkins, S. G. Bohlmann	L. S. Werner, O. P. Hill	R. E. Heath, A. E. Florin	W. H. Bruggemen, B. G. Voorhees	A. H. Szell	E. P. Wigner, L. A. Oblinger, G. J. Young	R. T. Coffman
Isotopic Fractionation Process of Dranium A. Clark Method of Sustaining a Neutronic Chain E. Permi. Rescting System C. Levers		ton	Electron Emission Regulating Means	Apparatus for Producing loas of Vapor- isable Materials	Retort Assembly	Ion Beam Collinator	Electrical Circuits Using Cold-Cathode Triode Valves	incing Refractory Ursaium	Oxide Articles	Ceramic Foel Element Material for a Memironic Reactor and Method of Fabricating Same	Uranium Precipitation Process	Separation Process for Thorium Salts	Processing of Monazite Sand	Metal Recovery Process	Method of Preparing PuFa	Method for Removing Sodium Oxide from Liquid Sodium	Past Neutronic Reactor	Isotope Conversion Device	Seal for Botating Shaft
2,813,030			2,813,978	2,813,979	2,814,477	2,814,728	2,814,772	2,814,849		2,814,857	2,815,261	2,815,262	2,815,264	2,815,265	2,815,266	2,815,277	251	2,815,321	2,815,968

S. L. Resse, S. O. Semoriga	C. E. Einner, C. E. Wilkie	P. L. Jessen, H. J. Price	M. H. Greenblatt	D. W. Cinns	W. Widmiler	C. N. Winningstad	A. B. Shack	L. 3. Magnesson	D. Kaufman, C. S. Abrams	J. J. Estr, H. H. Symen, I. Sheft	R. S. Long, R. H. Bailes		F. H. Spedding, H. A. Wilhelm, W. H. Kaller	A. U. Seybolt	E. C. Creutz	A. C. Sahl	E. P. Wigner, A. M. Weinberg, G. J. Young	M. H. Brucer	J. E. Gross	G. T. Seaborg, J. W. Cofman, R. W. Stoughton	5. P. Wigner	R. J. McGerry	J. N. Youne	
Induction Purnace	Cooled Neutronic Reactor	Stabilized Oscillator	Pulse Amplitude Analyzer	Remote Bandling Arrangements	Lead Severing Contrivance	Control and Pault Detector Circuit	Centrifugal Casting Nachine	Separation Process for Transuranic Ele- ment and Compounds Thereof	Uranium Recovery Process	Fluoride Volatility Process for the Recovery of Uranium	Recovery	and Purification of Materials	Production of Uranium	Drantum Alloys	Production of Uranium Tubing	Process of Separating Plutonium Values by Electrodeposition	Sestronic Resctor	Radiation Sources	Time-Interval Messuring Device	Separating Protectinium with Manganese Dioxide	Meutronic Reactor	Meutronic Reactor	Plactermannatic Annualiza for Morine a	Rod
2,825,624	2,627,429	2,827,569	2,828,425	2,628,875	2,829,293	2,829,316	2,829,408	2,830,066	2,830,871	2,830,873	2,830,874		2,830,894	2,830,896	2,830,921	2,830,939	2,830,944	2,831,122	2,831,162	2,831,750	2.831.806	2.831.807	2 841 980	**********
G. T. Seaborg, J. E. Willard	F. J. Wolter, E. C. Diehl, Jr.	J. A. G. Busseil	E. O. Lawrence		E. L. Wibbles, E. I. Miller	C. F. Martin	H. T. Cittings, Jr., J. F.	C. E. Frantz, J. Roslund	R. S. Shor, S. Vogler	E. A. Saller (Decessed)	E. I. Miller, R. C. Smith	G. P. Monet	C. W. Johnstone	J. T. Russell, H. W. Lefevre	J. G. Beach	B. T. Wright	S. Jefferson	W. A. Bell, Jr., L. O. Love, W. K. Freter	E. S. Brown, O. F. Hill	H. M. Peder, N. R. Challow	C. S. Jones, T. E. Eston	W. R. Alben	W. W. Goldsworthy	G. M. Lobell
Separation of Plutonium from Dranium and Fission Products by Adsorption	Flutonium Compounds and Process for Their Preparation	Electronic Trigger Circuit	e Position	Calutron	Purification Process	Photosensitive Relay Control Circuit	Tube Tester	Device for Conveying and Notating Objects	Process of Dissolving Zirconium Alloys	Process for Producing Jacksted Bodies	Nuclear Resctor	Method of Separating Proths from Liquid	Pulse Height Analyzer	Multichannel Pulse-Height Analyzer	Process of Coating Metals with Bismuth or Bismuth-Base Alloys	Apparatus for Producing Ions of Paportrable Baterials	Co-bertla	Ion Source	Method of Separating Flutonium	Decontamination of Uranium	Hegative Gate Generator	Pulse Durstion Lengthener	Radiation Counter	Injection-Moulding Apparetus
2,819,144	2,819,280	2,819,296	2,819,401		2,819,944	2,820,182	2,820,192 -	2,820,367	2,820,692	2,820,751	2,820,753	2,820,759	2,820,895	2,820,896	2,821,505	2,821,632	2,821,635	2,821,662	2,822,239	2,822,260	2,822,472	2,822,473	2,822,479	2,822,578

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E. F. Bertlan	R. M. Oeres, V. L. Smith, S. M. Johnson	A. J. Mangold, Jr., J. W. Mahaffey, S. L. Reese	E. P. Wigner	L. Stilard	E. E. Voiland		G. T. Seaborg, E. S. Stown	E. C. Creutz, S. P. Wigner		E. L. More	D. P. Mastick, A. C. Wahl	7. A. Jenkins	V. R. Baker	L. S. Foster, T. T. Sugel	J. A. McLaren, J. E. Goode	T. V. Besty		E. H. Sausmer		E. A. U. Boddle, O. Fitnz	G. H. Clewett, Designe A. Lee, W. B. Schaap	J. C. Oznělach, J. B. Berres
Ion Source	Time Calibrated Oscilloscope Sweep	Ingot Wold	Fuel Assembly for a Neutronic Reactor	Heavy Water Moderated Reactor	Process for Separation of Heavy Metals Separation of Uranium from Eirconium	and Slobium by Solvent Extraction	Fluorine Process for Separation of Materials	Separating Drantum Containing Solids	probing in a captadance	Recovery of Tetravalent Cations from Aqueous Solutions	Process for Purifying Flutonium	Method of Separating Isotopes of Ursains in a Calutron	Electrical Protective Device	Method of Producing Urenium	Electrochemical Decontamination and Recovery of Uranium Values	Reduction of Acidity of Mirrie Acid	solutions of the or formationalise	Not greening with a lomperature Gradient H. H. Bausant	Frocess of Freparing Urenium-Impregnated Graphite Body	Treatment of Metals Prior to Electro- Plating	Instope Practionation Process	Multi-Electrode Tube Pulse Memory Circuit
2,831,996	2,832,002	2,832,113	2,832,732	2,832,733	2,832,793		2,833,617	2,833,618		2,833,799	2,833,800	2,833,927	2,833,965	2,834,672	2,834,722	2,835,555	3 836 530	2,035,373	4,023,040	2,835,630	2,835,687	2,835,848
R. P. Angler	A. H. Snell, S. K.	E. Melelsh	6. D. Celkins	L. A. Slotin	J. B. Sutton	M. C. Lewrett	J. W. Schulte, J. F. Suttle	W. C. Redman, F. R. Shonks	G. F. Erickson	P. A. Serris	D. F. Peppard, E. S. Nachtman	R. S. Hansen, R. E. Minturn		W. L. Buck, R. K. Swank	M. D. Euroen	J. C. Gundlach, G. G. Kelley	I. T. Bagel	K. H. Dent	M. C. Vernon	L. Sailard, G. J. Young	J. H. Richardson	P. E. Spedding, E. A. Wilhelm
Method of Preparing Sintered Lirconium Metal from its Sydrides	Detection of Costing Pailures in a Neutronic Restori	Method of Locating Grounds	Recovery of Thorium and Uranium Values of from Aqueous Solutions	Method of Dissolving Uranium Metal 1	Precipitation Method of Separating Plutonium from Contaminating Elements	Reactor Unicading	Method and Means for Radiation Dosimetry J	Ionization Chamber	Soldering of Aluminum Base Metals of	Apparatus for Melting and Pouring Metal 7	Separation of Scandium From Agueous Solutions	r the Preparation of Stable Metal Oxide-Centaining Signates	and of the Oxides Therefor	Scintillator Composition for Counters wand Method of Making		Radiation Detector System	Metal Production and Casting T	Grab Mechanisms .	Power Generating Neutronic Reactor H System	Neutronic Resctor and Poel Element Iberefor	Gas Phototube Circuit	Alloy for Use in Suclear Pission P
2,623,116	2,823,179	2,823,350	2,823,976	2,823,977	2,823,978	2,824,056	2,824,234	2,824,252	2,824,365	2,624,732	2,824,783	2,824,784		2,824,841	2,824,967	2,824,973	2,825,105	2,825,599	2,825,688	2,825,689	2,825,818	2,826,495

24	004													1401	ICE							
J. C. Che	E. H. Clark, D. Duffey	T. D. Price, M. M. Jeung	L. C. Merrill	C. W. Johnstone	C. S. Anderson, E. W. Ehlers	H. J. Bellarts	L. I. Katain, J. C. Sullivan	A. E. Buchle	R. E. Mirwill	J. E. Atherton, Jr., D. H. Ourinsky	P. G. Berry	S. D. Stoddard	G. J. Young, L. A. Ohlinger	L. 3. Hallett, 3. G. Loech, G. L. Adems	J. J. Dickson	J. A. P. Glass L. B. Magnusson	C. D. Berrington, J. V. Opie	M. F. Wilson	S. G. Thompson	P. F. Hoglund	W. E. Zim,	
Binary Storage Element	Solvent Extraction Process for Uranium Recovery	Process of Recovering Granium	Magnetic Recording Read	Pulse Amplifier	Pulsed Ion Source	Tube Flanging Apparatus Having Spiral Cam Actosted Flanging Rollers	Separation of Imorganic Salts from Organic Solutions	Recovery of Uranium from Pitchblende	Method of Separating Fission Products from Fused Bismuth-Containing Uranium	Inhibition of Corresion	Photographic Film Developer	Refractory Coating for Graphite Molds	Resctor and Novel Method	Loaded Waveguides	Quick Releasable Drive	Nut Serev Mechanisms Precipitation Method of Separation of	Transium Extraction	Recovery of Utanian from Carbonate Leach Liquors	Flutonium Carrier Metathesis with C gamic Reagent	Heat Treatment of Electroplated Uranium	Power Reactor	
2,838,661	2,839,357	2,839,358	2,839,614	2,839,619	-2,839,706	2,840,136	2,840,451	2,840,452	2,840,464	2,840,467	2,840,471	2,840,480	2,840,522	2,840,788	2,841,018	2,841,026	2,841,466	2,841,468	2,841,469	2,841,539	2,841,545	
B. J. Bittner	A. G. Gray, E. W. Schweikher	E. Fermi (Deceased) L. Szilard	S. A. Colgate	J. Schubert		I. B. Johns G. H. Cartledge	E. W. Newson	E. K. Busey	E. Ferní (Decessed), H. C. Leverett	F. H. Spedding, J. A. Ayres	G. W. Gray, A. S. Jensen	W. W. Goldsworthy	S. Storchheim	L. J. Bosufatt, Jr.	H. M. Clark, D. Duffey	I. W. Boyer, J. G. MacHutchin, L. Taffo	A. M. Gaudin, J. Desher	6. D. Calkins	G. W. Watt, R. H. Goeckernsenn	E. Long, W. Nodwell	J. M. West, J. P. Schunar	
Directional Antenna	Surface Treatment of Metallic Drantum	Air Cooled Moutronic Reactor	Linear Accelerator	ron Aqueous		Method of Reducing Plutonium Compounds Corrosion Inhibition	Heutronic Resctor Having Localised Areas of High Thermal Neutron Densities	Steam Stirred Homogeneous Nuclear Reactor H. M. Busey	Chain Reactin, System	Separation Process Using Complexing and Adsorption	Pulse Amplitude Analyzers	Pulse Beight Analyzer	Method of Solid State Welding	Oxidative Method of Separating Plu- tonium from Neptunium	U-Extraction-Improvements in Elimins-	Treatment of Amoonium Mitrate Solutions	Process for the Concentration of Ores Containing Gold and Uranium	Recovery of Uranium and Thorium from Aqueous Solutions	Mathod of Separating Plutonium from Lanthaum Fluoride Carrier	Gas Cooled Nuclear Reactors	Flates with Oxide Inserts	
2,835,890	2,836,548	2,836,554	2,836,759	2,837,401		2,837,402	2,837,475	2,837,476	2,837,477	2,837,548	2,837,639	2,837,640	2,837,818	2,838,366	2,838,367.	2,838,368	2,838,369	2,838,370	2,83:,371	2,838,451	2,838,452	

						Clark											. Okleshen						. Zubank,
6. Couper	Q. A. Kerna	L. I. Estris	R. B. Dufffeld	J. H. Yeager	J. P. Butler	E. J. King, H. H.	A. S. Wilson	W. S. Pier		R. R. Busey	L. D. Subank	R. W. Ashley	E. D. Kene	E. O. Lewrence	F. E. Schmidt	f. W. Brackney	F. R. Shonks, A. J. Okleshen	L. W. Froms, Jr.	J. C. Warf	G. V. Watt	W. E. Roske		E. R. Boller, L. D. Subank, J. W. Robinson
Pulse Amplitude Distribution Recorder G	Calutron Oscillograph System 0	Preparation	Sulfide Method Flutonium Separation 3	Urenium Recovery Process	Solvent Extraction of Meptunium	Precipitation of Branium Peroxide of Low E. J. King, H. M. Clark Thurside Content from Solutions Containing	Precipitation of Linconium, Michium, and A. S. Wilson Ruthenium from Aqueous Salutions	Pulsed Mixer-Settler Solvent Extraction W. S. Pigg	Contactors	Apparatus for Catalytically Combining H Gases	Notal Surface Treatment L	Epirogen Isotope Targets	Calutrons	Calutron System B	Calutros	Electrical Regulating Apparatus Including H. W. Brackney an Ionic Current Regulator	High Sensitivity Electroscope #	Remote Retrieving Tool	Process of Separating Drankum from J Aqueous Solution by Solvent Extraction	Separation of Flutonium Hydroxide from G Hismuth Hydroxide	lear Resctors		Wittic Acid Pickling Process E
2,647,268	2,847,270	2,847,273	2,847,274	2,847.175	2,647,276	2,847,277	2,847,278	2,847,283		2,847,284	2,847,321	2,847,331.	2,647,575	2,847,576.	2,847,577	2,847,635.	2,847,644	2,848,266	2,848,300	2,848,301	2,848,325		2,848,331
G. W. Gray, A. S. Jensen	A. J. Mooradian	A. J. Beyer, J. Orndorf	J. W. Beyd, P. E. Chmart	D. O. Beird, L. R. Zummit	R. L. Morre	R. E. Comnick, W. A. McVey	R. R. Cost	C. G. Harmon, L. S. O'Barmon	R. P. Christy	G. Z. Driver	E. C. Jorden	E. C. Creutz, Sn. A. McAdens, N. H. Rose		A. S. SCHOLIBIA	A. J. 1860e	G. T. Scaborg, J. W. Cofman, G. Friedlander M. P. Curtis, C. L. Carison M. P. Pakieta		A. L. Dyer	L. E. Eslam, F. L. Tagges	R. C. Coertz, W. M. Thompson, R. A. Olsen	M. A. Lasvitt, I. C. Lets	D. Z. Halker, R. A. Boland	W. A. McAdams, M. H. Poss
Quantizing Tube	De-Entrainment Column	Selective Rejection of Iron and Aluminum in Bydrometallurgical Recovery of Matals	Polarograph	Processes of Recovering Dramium from a Calutron	Precipitation of Protectinium	Separation of Plutonyl Ions	High Temperature Brazing Alloy for Join- ing Fe Cr Al Materials and Austenitic and Ferritic Stainless Steels	Costed Alloys	Neutronic Reactor	Translator Eigh Voltage Power	Thermo-Electric Generator	Method of Testing for Leaks	Malletola County Con Colors	Parisages open dep Switch	Taraba samu	Neutron Ressuring Method and Apparatus Neutron Counter	Doods Dood from the forman		Pfatures	Electronic Master Slave Manipulator	Square Mayliffer	Metal Plating Process	Leakage Testing Nethod
2,841,727	2,642,224	2,842,436	2,642,736	2,843,451	2,843,452	2,843,453	2,843,478	2,843,500	2,843,543	2,843,815	2,844,639	2,844,735	2 844 740	2.845, 610	2 010 011	2,845,560	2 844 484	2.845.716	2,845,762	2,846,084	2,646,523	2,846,762	2,846,872

24056												,	Olice						
F. Poote F. Poote	or Manada. 13	E. Sanstreta	J. W. Robinson	J. B. Sutton, J. V. P. Torrey	A. G. Gray 1	E. V. Brugaann	E. W. Brugasan	E. S. stronem D. H. Oorinsky	L. E. Glendenin, H. Gest	C. G. Bacon	L. A. Ohlinger, E. P. Wigner, G. J. Toung, A. M. Weinberg	D. Price	J. G. Backus	F. H. Schmidt, K. F. Stone	C. S. Carner, I. B. Johns	H. S. Brown, O. F. Hill I. B. Johns. A. S. Mewton	W. T. Moore	E. C. Vernon, J. J. Goett (Deceased)	G. G. Joris
Method of Flux Treatment for Treating F. Foote Uranium Francement Flux Composition and Method for Treating F. Foote	Uranium-Containing Metal	Proparation of Metal Fowder Compacts Prior to Pressing	Metal Coating Saths	Filter Trestment	Electrodeposition of Nickel on Uranium	Corrosion Resistant Jacketed Metal Body	Corrosion Resistant Jacketed Metal Body	Corrosion Resistant Jacksted Matai Body Welded Jacketed Dramium Body	Separation of Radioactive Columbium Tracer	Isotope Separators	Neutronic Reactor	Calutron Structure	Ion Producing Mechanism	Calutron Receivers	Preparation of Halides of Plutonium	Process of Separating Plutonium from Uranium Norbod of Teating Continue	Neutronic Reactor Puel Element and Core System	Meutronic Resettor Construction	Method of Purifying Catalysts
2,849,307		2,649,313	2,849,337	2,849,340	2,849,348	2,849,387	2,849,388	2,849,389	2,849,467	2,849,616	2,850,447	2,850,634 -	2,850,636	2,650,639	2,851,332	2,851,333	2,851,409	2,851,410	2,851,427
R. A. Woland, C. Marramo M. Treshow		J. G. Backus	T. Opposite Contract		S. C. Sigoloff	L. D. Eubank, E. R. Boller	L. D. Enbenk	J. O. Maloney, J. B. Tepe, E. E. Endnes	S. E. Graves, R. E. Coonfere	p. W. Q. Smith	O. E. Miller	S. M. Linzell, D. J. Dotcy	ric J. R. Thomas	a R. E. Bailes, esin D. A. Ellis	G. E. Boyd	sc- R. W. Stoughton, F. L. Steahly	ions E. P. Wigner, W. A. McAdams J. W. Kennedy (Decessed),	E. G. Segre N. A. Welt, M. Smatz	
Puel Elements and Method of Making Neutronic Reactor	Ion Source Unit for a Calutron	Ion Freducing Mechanism	CALIFORN TON SOUTH	designation ton source	Garma and A-gay Dostmeter and Dosimetric Method	Alloy Coatings and Method of Applying	Metal-Coated Articles and Method of Making	Method of Jacksting Dranium Bodies	Method and Means for Closing Tubes by Spinning	Means for Determining Centrifuge Align-	Thermally Shielded Moisture Removel Device	Closure Device	Process of Securing Plutonium in Mitric Acid Solutions in Its Trivalent Oxidation State	Catalytic Promotion of the Adsorption of Vanadium on an Anionic Exchange Resin	Method of Separation	Separation of Uranyl Mitrate by Extrac- tion	Method of Seperating Dranium Suspensions Method of Purifying Uranium	Method of Processing Monasite Sand	
2,848,352			170 '040'7		Z,848,623	2,848,796	2,848,797	2,848,800	2,848,804	2,848,817	2,848,881	2,849,246	2,849,277	2,849,279	2,849,282	2,849,283	2,849,284	2,849,286	

															N	ОТІ	CES								
E. C. Lawrence (Decessed)	E. O. Livrence (Deceased)	P. F. Scheele	C. F. Gray, R. E. Thompson	N. Underwood	D. J. Zaffarano, J. Weber,	Jr., W. A. Eninehart	W. Z. Abbott, R. Balent	J. L. Roush	Q. A. Eleros	E. P. Wigner, G. J. Young	I L. A. Ohlinger	E. B. Bofacker	J. C. Chu	W. I. Thompson	E. W. Alter, D. L. Barney	C. F. Gray, R. H. Thompson	A. G. Grey	A. G. Gray	L. A. Ohlinger	G. E. Boyd, A. W. Ademson, J. Schubert, E. R. Bussell	J. M. Okrter, C. E. Larson	u v 100km	town	8. J. Schmidt, P. Puis, Jr.	
Ion Producing Mechanism	Calutrons	Voltage-Controlled Transistor Oscillator	Casting Apparatus	Oscillatory Pump	Scanner for Exposing and Analyzing	Complete Organisation of Description	Fuel-Sreeder Element for a Nuclear	Calutron Structure	X-Ray Pulse Generator	Radiation Shielding Device	Discharge Device for Radiosctive Naterial L. A. Chilager	Magnets	Electrostatic Momory System	Cold Traps	Electrolytic Reduction of Mitric Acid Solutions Containing Radioactive Waste	Casting Method and Apparatus	Copper Coated Uranium Article	Mickel Coated Dranium Article	Loading Device	The Separation of Plutonium from Uranium and Fission Products	Process of Recovering Uranium	Separation of Brantum Herafluoride.	from Organic Pluoro Compounds	Apparatus for Condensation and Sublimation	
2,852,689	2,852,690	2,852,746	2,852,823	2,853,228	. 2,853,237	2.853.443	2,853,446	2,853,616	2,853,623	2,853,624	2,853,625	2,853,657	2,853,695	2,853,859	2,854,315	2,854,713	2,854,737	2,854,738	2,855,114	2,855,269	2,855,270	2,855,271		2,855,281	
E. J. Lodgren	W. M. Brobeck			W. J. Stinson	J. R. Centry	P. E. Beller	G. T. Seaborg, I. Perlman	S. Rosenfeld (Deceased)	F. T. Fitch, D. S. Russell		I. S. Hicks, H. R. Lehman, B. Rubin	F. E. Spedding, C. F. Gray	D. C. Overholc, M. D.	receison, M. F. Acken	E. Long. J. W. Ashley	J. R. Dietrich, J. M.	Barrer .	K. K. Williamson	W. E. Abbott, R. Balent	E. Permi (Decessed),	F. H. Zinn, H. L. Anderson	J. E. Tolnie	K. E. Beckenzie	M. K. Endravetz, H. B. Greens	W. M. Pierson
Calutron Receivers	Ion Producing Mechanism (Arc External to Block)	Sloved Marallife Passings on Brandon	and Method of Applying Same	Fiuld Selecting Apparatus	Slug Handling Devices .	Thrust Bearing	Peroxide Process for Separation of Radioactive Materials	Processes of Chlorination of Dranium Oxides	Separation of Placemium from Elements	DATES OF WAREN NAMED TOOL PERSON LINES 74	Appearatus for Liquid Phase Extraction	Malting and Purification of Uranium	Process of Decontaminating Material	CONTRACTOR AICH SHOTOMOCHATCH	Neutronic Resctor	Apparatus for Controlling Neutronic	Meactors	Apparatus for perceting and Locating Presence of Fluids	Puel-Breeder Puel Element for Buclear	Neutronic Reactor		Ion Source for Calutrons	Calutron Receiver	Isotope Separating Apparatus	Calutrons
2,851,607	2,851,609	2.841.766		2,852,041	2,852,301	2,852,319	2,852,336	2,852,337	2,852,338	* ***	645, 250, 249	2,852,364	2,852,419		2,852,457	2,852,458	5 505 400	6,036,433	2,852,460	1,852,461		2,852,685	2,852,686	2,852,687	2,852,688

P. Pal																									
R. Lipscomb, A. Craig S. Labrow, J. F. Dunn	P. T. Fitch, A. J. Cruilshank	A. E. Ballard, H. R. Brigham	E. F. Plott	G. V. Vanita		L. P. Wouters	W. H. Bone, W. W. Schmidt	R. H. Bailes, R. S. Long		E. E. Russell, A. W. Admson, J. Schnbert,	G. E. Boyd	J. M. Schmitt, C. A. Slake, Jr., K. S. Srown, C. F.	Coleman W. M. Maneine, R. H. Studier.	H. Dissond, P. R. Ffelds	R. D. Fowler		N. R. Davidson, J. J. Ests	N. L. Mancherd	A. L. Allen, R. W. Anderson, E. W. Powell	G. L. Plostz, W. E. Ray	C. E. Michelson, W. M. Corson, Jr.	E. J. Cox	J. K. Berris	R. E. Grinsteed	
Separation of Fluid Mixtures	Wrenium Recovery	Extraction Apparatus	Protectively Covered Article and	Nethod of Namifacture	Methods	Radiation Wave Detector	Grucible Lining Method	Solvest Extraction Process for the Becovery of Metals from Phosoboric	Acid	Zirconium Phosphate Adsorption Method		Uranium Extraction Process Using Swerzistic Reasonts	Process of Production Ca. 244 and called		Process for Production of Uranium	Hexafinoride	Preparation of Plutonium Belides	Composition and Method for Costing a Ceramic Body	Electrolytic Properation of UT&	Cadelum-Rare Earth Borate Glass as Reactor Control Material	Sampling Device for på Measurement in Process Streams	Circuits for Current Measurements	Visual Alera System	Process for Utilizing Organic Ortho- phosphate Extractants	
2,857,745	2,858,187	2,858,196	2,858,262	1 808 147	minute.	2,858,452	2,858,596	2,859,092		2,859,093		2,859,094	3 809 000	continueta	2,859,096		2,859,097	2,859,138	2,859,156	2,859,163	2,859,164	2,859,353	2,859,431	2,860,031	
H. L. Anderson	L. A. Ohlinger, C. M. Cooper	L. P. Bocher	B. J. Beaty	R. E. Henrys	E. W. Stoughton, E. B.	married	R. W. Stoughton	J. M. Carter, M. D. Kamen	R. E. Metcalf	S. Datermyer	E. P. Wigner, G. J. Young	E. P. Wigner, G. J. Toung	V. L. Kenne	M. Calvin		S. O. Jones, P. V. Daly	L. C. Merrill	E. P. Sartins	A. H. Angerman	E. J. Cleary	S. D. Stoddard	D. R. deSoisblanc, M. E. Thomas, R. M. Jones, G. E.	Banson, J. W. Webster, C. F. Leyse	P. R. Bell, Jr.	
Meutronic Resctors	Jacketed Uranium Slug	Tamperproof Film Badge	Device for Controlling Insertion of Rod	Metal Sprayer for Use in Vacuum or Inert Atmosphere	Indate Method for Purifying Plutonium		Adsorption Procedure in Preparing U ²³³	Process for the Recovery and Purification J. M. Carter, M. D. Esmen of Uranium	Meutronic Resetor Control	Method of Operating Muclear Reactors	Neutronic Reactors	Shaped Fissionable Metal Bodies	Nuclear Reactor Slug Provided with Thermocouple	Separation Process for Transurante Ele-	ment and Compounds Thereof	Insert Ges Shield for Welding	Cating Circuits	Pulsed Ion Source	Process Using Potsssium Lanthanum Sulfate for Forming a Carrier Precipitate for Plutonium Values	Superconducting Vamedium Base Alloy	Bigh Imperature Refractory Coating for Grapbite Molds	Englosering Test Reactor		Distributed Amplifter Incorporating Feedback	
2,855,354	2,855,355	2,855,519	2,855,899	2,856,237	2,856,261		2,856,262	2,856,263	2,856,336	2,856,337	2,856,339	2,856,340	2,856,341	2,856,418		2,856,510	2,856,526	2,856,532	2,857,241	2,857,268	2,857,285	2,857,324		2,857,463	

A. Thumses, F. T. Rabbitts, K. D. Hester, H. W. Smith	D. C. Overbolt, F. W. Tober		H. J. Komack, J. H. Balthis	H. P. Schuffle, C. H. Secoy	D. C. Brater, J. W. Pike	K. A. Kesselring, A. U. Seybolt	E. V. Moore, J. H. Bowen,	J. T. Stary	W. J. Morris	E. P. Smith, R. J. Van Thyne	H. Schneider, B. J. Massey		R. A. James, S. C. Thompson	S. M. MacNellle	R. Spence, M. W. Lister	The state of the state of	D. R. Miller, H. R. Hockstra		V. P. Calkins	R. H. Bailes, D. A. Ellis, R. S. Long		D. E. Gurinsky, O. F.	Domerrer, J. Sadofsky, J. R. Weeks	M. E. Shakelford	E. Long, J. W. Ashley	E. A. Potratz
Sulphur Bioxide Leaching of Uranium Containing Material	Plutonium Concentration and Decontam- ination Method		Method of Improving the Carrier precipitation of Plutonium	Combination of Hydrogen and Oxygen	System for Conversion of UF, to UF,	Neutronic Reactor Puel Element	Nutlear Reactor	Sentronic Reactor Fuel Element	Reactor Coolant Tube Seal	Jacketed Reactor Fuel Element	Process for Decontaminating Liquid	rinorocarpons of Oll Suspended Therein	Separation of Plutonium from Lanthaum by Chelation-Extraction	Servomotor Control System	Separation of Uranium, Flutonium, and	Fission Products	Reduction of Plutonium to PU ⁴ 3 by Sodium Dishipanias to massed	Designation of the party of the	recent of transmission of the	Amiconic Exchange Process for the Recovery of Ursainm and Vanadium from Carbonata Solutions	Drandon Entraction Princess	Forming Protective Pilms on Metal		Neutronic Reactor Fuel Element	Suclear Reactors	Process for the Recovery of Plutonium
2,863,716	2,863,718	2 845 TIE	4,000,113	2,863,729	2,863,735	2,863,814	2,863,815	2,863,816	2,863,817	2,863,818	2,863,830		2,863,892	2,864,042	2,864,664		2,864,665	2 RG4 444	2 564 467	Jon Lands	2,864,668	2,864,731		2,864,758	2,864,759	2,864,841
N. R. Davidson, E. E. Ryda	Z. P. Wigner, L. A. Ohlinger	R. F. Post	L. D. Test	S. Jefferson	F. C. Ford, S. G. Zizzo, B. Cook. J. W. Parff	S. H. Prind		L. J. Beaufait, Jr., F. R. Stevenson, G. K. Rollefson	A. V. Bearickson	T. V. Arden, P. H. Burstall,	G. E. Davies, R. P. Linstead, R. A. Wells	M. Treshow	E. P. Wigner, L. A. Oblinger	1 1 7 2 1 1 7 2 1 1 1 1 1 1 1 1 1 1 1 1	N. H. ZIM, H. V. ROSS	E. H. Cooks-Terborough	M. A. Leavitt	K. H. Pope	G. T. Seaborg, J. W. Goffman	K. Boyer, C. W. Johnstone	L. J. Rabell	A. Charlesby, M. Ross	O. N. Selmon	W. J. Sturm		
Wat Method of Preparing Plutonium Tribromide	sion Device and Nethod	Batio Computer	Differential Pulse Height Discriminator	Gas Discharge Devices	Pulsed Ion Source	Separation of Mestunium from Plutonium	rion	Flutonium Separation Method	Method of Preparing Matal Balides	Production of Metals and their Commonwell		Horizontal Boiling Reactor System	Neutronic Reactor Shield and Spacer Construction	Control Bod		Electronic Pulse Scaling Circuits	Mignetometer	Accelerometer	Wet Fluoride Separation Method	Multi-Channel Pulse Beight Analyzer	Regenerative Transistor Amplifier	Formation by Irradiation of an Expanded . Cellular, Folymeric Body	Method of Separating Hydrogen Lectope	Nethod of Messuring the Integrated	Reactor	
2,860,032	2,860,093	7,500,241	2,860,242	2,860,269	2,860,270	2,860,948		2,860,949	2,860,950	2,860,956		2,861,033,	2,861,034	2,861,035		2,861,201	2,861,242	2,861,789	2,861,866	2,862,105	2,862,113	2,862,862	2,862,526	2,863,062		

24060		HOHELS	
C. H. Prescott, Jr. F. L. Reynolds S. Untermyer, E. Butter H. V. Alter, J. K. Davidson, R. S. Miller, J. L. Mecherter H. C. Wernen	R. A. Potratz W. R. Baker, J. Beidel W. W. Saleig, Jr., M. D. Martin W. A. Reardon, D. H. Lemnor, R. G. Mobles	V. Josephson, J. E. Bammel G. S. Monk E. E. Thomas D. E. Jacobsohn, L. C. Marrill E. E. Grinstead S. E. Grinstead S. Rosemfeld (Decessed)	E. S. Brown, D. S. Menster D. M. Gruen T. M. Dentifer M. C. Leverett, J. P. Bowe L. J. Koch J. H. Birden G. E. Baker
Process of Preparing Uranium Metal Device for Charging or Discharging Process of Making a Sentronic Reactor Puel Element Composition	Neutronia, Essetor Flutonia,-Cupferron Lomplex and Method of Removing Flutoniam from Solution Resonant Cavity Excitation System Liquid Target	High Energy Gaseous Plasma Containment Device Reactor Viewing Apparatus Multiplier Circuit Adder Circuit Slurry Solvent Extraction Process for the Recovery of Metals from Solid Ma- terials Frocess for the Recovery of Metals from High-Line Carmotite Ores Process of the Purification of Ursalum	Recovery of Pufalose by Fluorisation and Fractionation Separation of Hetal Salts by Adsorption Graphite Extrusions Graphite Extrusions Muclear Reactor Unloading Method and Apparatus for Improving Performance of a Fast Reactor Fabrication of Westron Sources Method of Peak Current Macarement
2,868,636 2,868,706 2,868,707	2,868,817 2,868,974 2,868,997 2,868,997	2,868,992 2,868,992 2,869,784 2,869,786 2,869,979 2,869,981	2,869,982 2,870,031 2,870,035 2,870,036 2,870,036 2,870,407
D. A. Sett G. T. Sesbors A. E. Jaffey, G. T. Sesborg	R. A. Janés, S. G. Thompson R. E. Blenco, B. H. Mirrison H. B. Stewart O. E. Deyer	E. C. Pitter E. C. Pitter R. S. Long R. S. Long R. G. S. Port G. W. Stahl W. R. Banley A. S. Coffinherry	J. W. Cofman G. A. Morton, M. W. Green G. M. Van Atts, L. Smith, E. R. Beringer P. L. Earley B. M. Bitter G. S. Garner
Purps for Liquid Current-Conducting Baterial Process of Purifying Uranium Pathod of Separating Uranium, Flutanium, and Fission Products by Econimation and Distillation	Improvement upon the Carrier Freeighta- tion of Flutonium Iona from Nitric Acid Solutions Method of Purifying Uranium Metal Meutronic Reactor Fover Generation from Liquid Metal Nuclear Fuel	Slug Ejector Electrolytic pissolution of Stainless Steal Alkyl Pyrophosphate Metal Solvents Extractants and Process Control Rod for a Nuclear Reactor and Method of Preparation Dero Suppression for Econdors Method for Removing Contamination from Precipitates Voletile Chibride Process for the Recovery of Metal Values Plutonium-Cerium Alloy	Oxalate Process for Separating Siement 94 Secondary Electron Multipliers Heavy Ion Linear Accelerator Circular Cavity Slot Antenna Process for the Recovery of Flutonium Nethod of Making Flutonium Dioxide
2,865,703	2,865,705 2,865,737 2,865,826 2,865,827	2,865,829 2,865,632 2,866,741 2,866,741 2,866,939 2,867,500 2,867,501	2,867,640 2,867,729 2,867,748 2,867,803 2,868,619 2,868,620

J. P. Livingston

Spherical Die

2,870,484

		phell					1,		-		70			110	ppo		ordes		inger.			SI S
L. D. Eubenk, S. Boclid, E. R. Boller	L. D. Babenk	H. T. Siefen, J. M. Campbell	R. E. Bacherey	M. Eplodney	C. J. Slunder	L. C. Newmen	E. L. Ashley, J. W. Ashley, R. W. Bowker, R. H. Eall, J. W. Kendell	E. W. Newson	o v backer o Green	D. P. Baboock	E. P. Wigner, L. Szilard	C. L. Dra, O. Sissan, R. B. Briggs	R. B. Dufffeld	J. C. Hobbs	E. H. ReHillen, D. L. Judd	H. C. Brassffeld, C. T. Durham, Jr.	E. G. Sorensen, C. M. Gordon	T. T. Bagel	R. H. Bailes, R. S. Long, R. S. Olson, H. O. Kerlinger	L. R. Damelt		H. S. Brown, E. G. Schlmann
Method of Protectively Coating Uranium	Pused Salt Method for Coating Uranium with a Metal	Stripping Metal Coatings	Method of Working Beryllium	Anodic Treatment of Uranium	Treatment of Uranium Surfaces	Recovery of Uranium from Tungsten	Meutrem-Irradiated Structures	Self-Reactivating Neutron Source for a Neutronic Reactor	Base the Bin francise	Orr towned towned	Jacketed Puel Element	Method of Preparation of Material for Seutron Dombardsent	Preparation of Onslates of Metals of Atomic Number Greater Than 88	Remote Controlled Switching Device	Cloverleaf Cyclotrom	Nethod of Pabricating Small Spherical Pallets	Differential Analyzer	Apparatus for Eigh Purity Matal Recovery	Branium Becovery Process	Processes of Reclaining Uranium from	Solutions	Recovery of Pu from Cerium Trifluoride by Pluorination
2,872,343	2,872,348	2,872,361	2,872,363	2,872,387	2,872,389	2,872,394	2,872,398	2,872,399	2 875 400	and trade	2,872,401	2,872,402	2,872,467	2,872,545	2,872,574	2,872,719	2,873,065	2,873,108	2,873,165	2,873,167		2,873,168
E. C. Creuts	S. V. Birmingham, E. H. Brown, R. B. Scott, P. C. Vander Arend	H. A. Wilhelm, R. A. Poos	J. W. Coffsen, R. Z. Connick,	A. C. Will	R. E. Andrews	R. E. Andrews, J. Thornton	R. E. Andrews	E. O. Lewrence (Deceased)	L. M. Foster	E. W. Colbeck	F. C. Bushing	K. A. Kraus, G. E. Hoore	E. M. Feder, M. Ader, L. E. Ross	T. C. Finzel	R. S. Dufffeld, R. W.	Stoughton	a. B. Dufffeld, B. W. Stoughton		R. B. Lemon, J. A. Bockbas	E. A. Wilbeln, R. E. Eundle	A. U. Saybolt	E. A. Wilhelm, D. Peterson, R. P. Russi, Jr.
Forming Tubes and Rods of Ursnium Metal. by Extrasion	Supporting and Hest Insulation Mesna	Michigan-Tantalum Separation	Process for the Separation of Beavy	December 1	Calutron Assembling and Disassembling Apparatus	Calutron Assembling and Disassembling Means	Calutron Assembling and Disassembling Apparatus	Calutrons	Method of Jacketing Pissionable Materials	Sheathing Urenium	Rotor End Cap	Recovery of Protectinium	Solvent Extraction of Ursains Values	Bismuth Phosphate Carrier Process for Pu Recovery	Method of Separating Tetravalent Pluton-	ium Values from Cerfum Sub-group Rare Eerth Values	Carbonate Method of Separation of Tetra- valent Plutonium from Pission Product	Whites	Continuous Dissolver Extractor for Processing Matal	Thorius-Carbon Alloys	Metal Compositions	Efreonium Alloy
2,870,907	2,871,062	2,871,092	2,871,251	The second second	2,871,361	2,871,362	2,871,363	2,871,364	2,871,555	2,871,558	2,872,105	2,872,284	2,872,285	2,872,286	2,872,287		2,872,288		2,872,296	2,872,307	2,872,308	2,872,310

E. C. Eartwig, P. W. Enconing, B. C. Acker	r, J. W. Bell		F. M. Class	T. P. Kohman, S. S. Weissbourd	E. P. Wigner, L. A. Ohlinger, G. J. Young, A. M. Weinberg	M. C. Christofilos, I. J. Polk			ch, M. A.		H. S. Brown, G. T. Seaborg				11.				9	alls		¥	
E. C. Esrtvig E. C. Acker	P. Oppenheimer, J. W. Bell	E. J. Lofgren	H. N. Wilson, F. M. Class	I. P. Kohman,	E. P. Wigner, G. J. Young,	N. C. Christo	C U Un'I donner		E. S. Frederick, M. A. Kinsella	D. W. King	H. S. Brown,		3. F. Paris		F. Galvanek, Jr.	E. E. Tompkins	-	C. S. Willer	R. B. Dufffeld	O. J. C. Rummals	D. K. Froman	E. D. Eightower	W. M. Broback
Ultra-Stabilised D. C. Amplifier	Mass Separators	Calutron Ion Source	Radiation Integrator	Mossuring Apparatus	Reactor Shield	Linear Accelerator	Marked and Americans for Date-francisco	Tubular Units	Elevating Mechanism	Band Truck for Bandling Squipment	Method of Separating Uranium Values,	Purconium Values and Plaston fromters by Chlorination	Method of Forming Plutonium-Bearing	Cattlet frecipitates and washing same	Process of Recovering Orenium from 118 Ores	Separation of Barian Values from Uracyl Mirrate Caluffors		Plutonium Chalates	Precipitation Method of Separating Flu- tonium from Contaminating Elements	Hethod of Making Alloys of Beryllium * with Flutonium and the Like	Push-Pull Power Reactor	Detector for Telephone Surreptitious Listening Techniques	Calutron Ion Source
2,874,235	2,874,295	2,874,296	2,874,305	2,874,306	2,874,307	2,874,326	9 874 466	Contrator's	2,874,852	2,874,860	2,875,021		2,875,022		2,613,023	2,875,024		2,815,002	2,875,026	2,875,041	2,875,143	2,875,285	2,875,339
G. T. Seaborg, I. Periman	E. E. Hyde, 3, A. Raby	P. C. Capuder, J. R. Dearwater	T. T. Magel, L. Brewer		T. T. Magel	F. G. Poote	H. A. Cage	L. A. Ohlinger, G. J.Young	K. Treshov	E. P. Wigner, L. A. Ohlinger, G. J. Young, A. M. Weinberg	J. G. Dorward, Jr.	W. M. Brobeck	D. E. Trumbo	3. Cook	L. 3. Borst	E. Burton	R. L. Moore	E. J. Wheelwright	R. P. Bernond, E. M. Busey	L. A. Ohlinger, G. J. Young F. Seitz	L. A. Ohlinger, G. J. Toung	C. M. Cooper	J. E. Draley, W. E. Buther
Basic Perceide Frecipitation Method of Seperating Plotocium from Conteminants	Anion Exchange Method for Separation of 1	le Assembly	f Dramfum Com-		Deposition of Metal on Normetal Filament	Thorium-Silicon-Beryllium Alloys	Leveling Metal Coatings	Method of Making Jacksted Fuel Slug	Meutronic Reactor System	Means for Shielding and Cooling Reactors	Thermaily Operated Vapor Valve	Ion Producing Machanisms	Pulse Counter	Ion Switch	Method of Testing Hermetic Containers	Conned Slug	Oxidation of Transuranic Elements	Process of Preparing a Fluoride of Tetravelest Uranium	Resctor	Device for Treating Materials	Test-Hole Construction for a Neutronic Pasactor	or Terminating Muclear Beactions	Nuclear Reactor Component Cladding Material
2,873,169	2,873,170	2,873,174	2,873,184		2,873,185	2,873,186	2,873,209	2,873,238	2,873,242	2,873,243	2,873,375	2,873,376	2,873,388	2,873,400	2,873,603	2,873,853	2,874,025	2,874,025	2,874,106	2,874,107	2,874,108	2,874,109	*2,571,176

			L. Crew					W. Wilder,		. Nemail,			J. Skinner			T, L. A.	Sarris	J. 3.	ynor		K. oque	altes	
	A. inconcentate	A. W. Williams	C. N. Kengich, B. L. Crew	J. H. Googin, Jr.	R. Creveling	A. W. Chesterman	A. J. Schenfa	G. E. MacFood, C. W. Wilder,	D. Altrain	J. D. Teornton B. Burvitz, Jr., C. Namal, E. A. Luebke, J. E. Peyne,	H. Brooks	R. Z. Soleton	B. W. Bradford, W. J. Skinner	G. W. C. Tait	W. S. Tolley	E. V. Lichtenberger, E. A. Cmeron	P. R. Sell, C. C. Sarris	W. W. Goldsworthy, J. B. Robison	M. Preedman, S. Baynor	T. B. Bower	F. J. Digney, Jr., N. Angusta, P. Bevilacqua	E. J. Poz, L. C. Oakes	
Mary Date of the Mary Standard of the Standard	Flav Detection	Inspection Mesns for Induction Motors	Binary Excess-3 Converter	Formation of Uranium Precipitates	Frecision Time-Delay Circuit	Beam Control Probe	Eigh Woltage Generator	Process for Recovering Uranium		Pumps Neutronic Besctor		Process for Purifying Crude Perfluoro- carbons	Molded Sealing Slowent	Annular Impactor Sampling Device	Production of Uranium-Calcium Fluroide	Control for Neutronic Reactor	Structure for Sub-Assemblies of Electronic Equipment	Peak Limiting Amplifier	Cutting and Wedging Jacket Remover	Process of Costing with Mickel by the Decomposition of Mickel Carbonyl	Velocity Indicator for Extrusion Precs	Coariel Control Rod Drive Mechanism for Neutronic Reactors	
2.837.406		2,877,408	2,877,447	- 2,878,100	2,878,382	2,878,387	2,878,401	2,879,130		2,879,144		2,879,228	2,879,247	2,879,664	2,880,059	2,880,155	2,880,262	2,880,318	2,880,636	2,881,094	2,881,391	2,881,619	
R. D. Birkhoff, H. H. Hubbell.	Jr., R. M. Johnson, Jr.	D. Bicell	G. S. Monk	f. T. O'Dornell		C. Skarstrom	W. E. McVey, W. H. Rons	W. W. Wellborn, J. R. Armstrong	D. C. McLean	T. G. Pinzel	C. P. Elskey	W T. Rose	0 0 00	Parker	J. I. fbyn	F. E. Spedding, T. A. Butler, I. B. Johns	D. C. Overhold, M. D. Peterson	A. R. Etwissen	F. C. Greenhelgh, E. Long	M. Burton, L. T. McClinton,	E. B. Brown, D. J. Crouse, Jr.	J. W. Great, Jr.	E. J. Wade, R. S. Stone
Personnel Dosimeter		Nethod and Apparatus for Bandling I Radioactive Products	Overall Optical Viewer 6	Brake Berjee				Method and Apparatus for Making w Uranium-Rydride Compects	Elution of Uranium from Resin	Process Using Bismuth Phosphate as a Carrier Precipitate for Fission Products and Plutonium Values	Dehydration of Deuterium Oxide Slurries C	Coordination Compound-Solvent Extraction V Process for Uranium Recovery	feer Marel		Adsorption Method for Separating Metal J. Cations	for Separating Dranium Pission	d Costing Composition for	3	Support Device for Use in a Nuclear I Reactor	or Shielding Resettors	Recovery of Uranius Values	Electric Contact Nama	Logarithmic Ampliffer
2,875,343		2,875,345	2,875,346	2.876.867	4 676 060	6,0/0,243	7,8//,08/	2,577,063	2,877,089	0,877,090	2,877,091	2,877,092	9 877 003	***********	2,877,094	2,877,109	2,877,131	2,877,149	2,877,170	2,877,171	2,877,250	2,877,314	2,877,348

2	406		2	ģ								9400.						100		1		and;	
2. L. Plat		E. W. Rebol, R. P. Vehrmann	C. Eggler, C. M. Buddleston	W. J. Maraman, E. R. Basman, R. D. Baker	F. W. Schonfeld, C. R.	H. L. Sletin	2. V. Boore, G. Packman	O. A. Zerns	A. A. Windsor	O. A. Anderson	J. A. Lane, R. S. Engberg J. M. Welch	G. T. Seaborg, R. C. Thompson,	F. W. Albough	G. E. Moore		G. V. Stahl	T. D. Price, A. V. Senrickson	J. G. Resvis, J. A. Lesry K. A. Saleh	W. H. Cooke (Deceased)	J. W. C. Crawford	N. P. Allen, J. B. Grogen	R. P. Smith, R. J. Von Thyne	A. Blainey
Plutonium Parification Process Employing 2. L. King	Thorium Pyrophosphate Carrier	Method of Electropiating on Uranium	Gaseous Scintillation Counter	Method for Decontamination of Reactor Solutions	Plutonium-Aluminum Alloys	Method for Electro-Wickel Flating	Nuclear Reactor Fuel Element	Trees seed Direct Current Modulator	Drift Compensated Direct Coupled Amplifier	Particle Besm Tracking Circuit	Reactor Control Mechanism	Recovery of Plutonium and Kentunium	from Aqueous Solutions	Treatment of Plutonium Solution with No	Plutonian from sind Solutions by Carrier Precipitation	Enhancing Precipitations by Applying Soluble Complex Fluorine - Containing Researts	Improved Processes for Recovering and Portifying Uranium	Hon-Aqueous Dissolution of Massive Flutonium	Marked for the Bednerfon of Brantum	Compounds	Uranium Compositions	Wanddiss Alloys	Production of Sheet from Particulate
2, 884, 105	- Continued to	2,884,364	1,884,529	2,885,260	2,885,283	2,885,329	2.885.335	7 RBS 496	2,885,497	2,885,552	2,885,893	2 856 406		2,886,407		2,886,408	2,886,409	2,836,410	2 886 429		2,886,430	2,886,431	2. BBK 411
	L. S. Long	G. T. Seaborg	F. E. Spedding, A. S. Hewton	A e Office		E. D. Courant, H. S. Sayder,	A. S. Livingston	F. E. Schaldt	E. O. Lawrence (Decessed) W. M. Brobeck	E. J. Lofgran	E. O. Lewrence (Decessed)	W. H. Brobeck	P. P. Oppenheiner	D. W. Magnuson, F. F. Smith	J. C. Barf	L. J. Teitel	R. Creveling, N. A. Bourgeois, Jr.	J. D. Salisbury, W. W. glein, C. F. Sansen	W. M. Brobeck	6. V. gito	J. E. Birden	W. D. Kilpstrick	The state of the s
	Process for the Recovery of Uranium from Phosphatic Ore	Solvent Extraction Process for Flutonium G.	Volatile Pluoride Process for Separating F.	Plutonium from Other Materials	Intito Acto secovery time seem connected at Ion Exchange Substances by Saponifica- J.	tion of Allyl Phosphate Polymers Eigh Energy Particle Accelerator		Ion Source unit for Catatron	Calutron	Ion Source for a Calutron	Dual Heated Ion Source Structure Saving Arc Shifting Heans	Ion Source	Ion Producing Mechanism	Method for Stabilising Klystrons	Solvent Extraction of Thorium Values from Aqueous Solutions	Liquid Natal Compositions Containing Urenium	Thrystrom Switch	Electronic Phase Control Circuit	Ion Producing Mechanism (Charge Cups)	High Voltage Generator	Pabrication of Newtron Sources.	Pulsed Ion Source	
San	,881,123	,882,124	,882,125		,882,248	1,882,396		1,882,400	2,882,407	2,882,408	2,882,409	2,882,410	2,882,411	2,882,442	2,883,264	2,883,330	2,883,535	2,883,536	2,883,541	2,883,551	2,883,553	2,883,580	

E. W. Crendell, J. R. Thomas

Separation Process for Lirconium and Compounds Thereof

2,892,681

	7							100					NO	TICE	S					
F. F. Oppenheiner W. M. Brobeck, E. J. Leferen	R. L. Thornton	C. S. Love	E. J. Michel, R. R. Porter	W. Chynoveth	S. J. Carr, V. D. Peckham W. E. Perkins	S. W. Barnes	A. P. Clark R. C. Goertz, K. R. Ferguson,	E. W. Rylander, L. M. Safranski	E. K. Bulet, S. G. Thompson	M. H. Curtis	D. M. Ritter		E. Pairstein	D. R. Savie	W. K. Kilpstrick W. H. Eussell, Jr.	B. J. Peris	W. K. R. Magnere	S. G. Thompson, D. R. Miller ing	M. E. Puentevilla	V. E. bergus
Ion Producing Mechanism Calutron	Particle Accelerator	Separation by Adsorption	Recovery of Uranian Values from Uranian Bearing Raw Materials	Plutonium Alloys	Precision Time Delay Generator Calutron	Calutron Saceiver	Celutron Portable Source of Radiosctivity		Production of Curlum 245	Method of Processing Neutronic Resctor Puel Elements	Recovery of Plutonium Values from	Dilute Solution by Partial Precipitation of Carrier Compounds	Linear Ampliffer	Continuous Alpha Air Monitor	Continuous Plasma Generator Internal Cutting Device	Improved Process of Plutonium Carrier Precipitation	Separation of Dramium from Thorium and Protectinium	Method of Maintaining Plutonium in a S. Higher State of Oxidation During Processing	Ion-Exchange Method for Separating	Recovery of Cestum from Waste Solutions
2,890,339	2,890,348	2,890,932	2,890,933	2,890,954	2,891,155	2,891,162	2,891,163		2,891,839	2,891,840	2,891,841		2,892,044	2,892,091	2,892,387	2,892,676	2,892,677	2,892,678	2,892,679	2,892,680
T. B. Moover, T. E. Zave L. Sailard, E. P. Moner,		J. E. Gross	L. I. Katzin, R. G. Larson, R. C. Thompson, Q. Van Winkle	G. T. Seaborg, J. W. Cofman, R. W. Stoughton	G. H. Riggins, W. V. T. Crase	H. W. Winkler, J. W. Morfitt, T. H. Lit le	M. Prankel, V. S. Shank	L. W. Baldwin	F. H. Schmidt	W. M. Brobeck	E. O. Laurence (Deceased)	W. G. Cobb	F. F. Oppenheimer	C. M. Olson	H. B. Rhodes, W. F. Pesold, J. M. Elishon	R. D. Baker	L. A. Chlinger, E. P. Wigner A. M. Weimberg, G. J. Young		J. G. Bachus	S. T. Wright
Nickel Flating Process Jacksted Fuel Elements for Graphite	Moderated Reactors Flutonium-Cerium-Copper Alloys	Warfable Time-Interval Generator	Method of Preparing Protectinium Values	Dry Fluorine Separation Method	Large Scale Nethod for the Production and Purification of Curium	Method of Cleaning Metal Surfaces	Apparatus for Testing Expansion of Movable Mombers	Calutron Cathode Interlock Circuit	Calutron Protective Circuit	Calutron	Ion Source Slit Cleaner for Calutron	Neutroaic Reactor Puel Pump	Calutren Ion Source	Reduction of Plutonium Values in an Acidic Aquecus Solution with Formaldehyde	Recovery of Oranium from Low Grade Oranium Bearing Ores	Production of Plutonium from Plutonium Fluorida	Neutronic Resctor	Method for Preparing Normorphine	Ion Beam Focusing Means for Calutron	High Woltage Regulator
2,886,468	2,886,504	2,886,775	2,887,355	2,887,357	2,887,358	2,887,373	2,887,876	2,888,563	2,888,564	2,888,565	2,888,566	2,888,878	2,809,462	2,890,098	2,890,099	2,890,110	2,890,158	2,890,221	2,890,337	2,890,338

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J. C. Sullives	L. E. Gooch	R. H. Beston	L. bosts	R. B. Dufffeld			H. H. Ryman, C. R. Leader	D. C. Barraber	M. Beederman, S. Vogler, E. H. Eyman	E. E. Hyde, L. I. Katrin, M. J. Wolf	T. T. Magne	E. I. Custott		N. L. Picklesiner	D. E. Salker, R. A. Boland	A. C. Gray		A. G. Grey	S. E. Paine, Jr.	E. A. Saller (Deceased)	J. R. Keeler	J. J. Grebe	W. E. Elm	E. G. Carnery, Jr.	J. V. Beyd
Cation Exchange Method for the Recevery of Protesticion	Nethod for Recovering Uranium from Oils	Columbic Caide Adsorption Process for	Process for Making Uranium Hexafluoride	Dissolution .f Plutonium Containing	Carrier Precipitate by Carbonata Meta- thesis and Separation of Sulfide Impur-	itles Therefrom by Sulfide Precipitation	Solvent Extraction of Buthenium	Polosium Separation Process	Separation of Ruthenian from Aqueous Solutions	Uraniam Separation Process	Process of Producing Actinide Metals	Nathod for Producing Commuted Carbide	Articles	Method for Annealing and Bolling Lir- comium Dase Alloys	Method of Electropolishing	Method of Applying Nickel Contings on	Uranium	Nethod of Applying Copper Coatings to Dranium	Jacketed Dranium Slugs and Method	Jacketing Drantom		Muclear Reactor	Heutronic Resetor Charging and Dis- charging	Fuel Element for Baclear Reactor	Tising Circuit
2,894,807	2,694,808	2,894,810	2,894,811	2,894,812			2,894,816	2,894,817	2,894,818	2,894,827	2,894,832	2,894,837		2,894,866	2,894,883	2,894,884		2,894,885	2,894,889	2.894.890		2,894,891	2,894,892	2,894,893	2,895,047
Al G. Beyers	G. J. Young		O. R. Neville	S. L. Simon	E. H. Ryssen	N. H. Hellman	H. H. Eynna, JH. Dreher	J. G. Helm, S. Fried	a della a defendant	E. H. Classen	R. S. Presely	J. Flox	M. Eslodney	L. P. Batch, F. T. Miles, T. V. Sheeben, R.H. Wiswall,	R. J. Hetts	P. E. Davidson	H. P. Tork	K. R. McKenzie	D. H. Curinsky, S. Steingiser	W. E. McCorkle	E. P. Robinson		C. W. Savyer, R. W. Bandley (Deceased)	L. B. Werner, I. Perlasn, M. Calvin	R. E. Elson
Pyrochemical Decontamination Nethod for	Reactor Fuel Neutron Density Control in a Neutronic	Reactor	Recovery of Branks by Cycloshkyldi- Thiocarbonate Complexing	Loading Machine for Reactors	Separation of Uranium Prom Other Metals	Separation of Uranium from Thorium	Drantum Recovery Process	Separation of Protactinium from	Contaminants	Platinum Berkilworde and method of Fluoridating Plutonium Containing Mix- tures Therewith	Separation of Americium from Promethium	Process for Removing Aluminum Coatings	Preparation of Plutonium	Process for Continuously Separating Irradiation Products of Thorium		Charge Bottle for a Mess Separator	Calutron Receiver	Slit Adjustment Clamp	Coating Uranium from Carbonyla	Positioning Device	Electronic Analog Computer for Deter-	BILLING ROCTORCIAN DISTRICTORS	Process of Extracting Dranium and Radium from Ores	Separation Process for Actinide Ele- ments and Compounds Thereof	Recovery of Protectinium from Aqueous
2,892,701	7.897.765		2,892,855	2,893,575	2,893,822	2,893,823	2,893,824	2,893,825		2,893,826	2,893,827	2,893,863	2,893,928	2,893,936		2,894,135	2,094,137	2,894,138	2,894,320	2,894,647	2,894,688		2,894,804	2,894,805	2,894,806

														-	911	CES				
P. Mertack, S. Dondes	A. B. Schultz	S. Untermyer, E. Butter	E. C. Frantz, T. B. Correy	J. E. Birden	T. R. Cartmell	W. R. Saker	E. C. Creutz	I. Igelsrud, E. P. Stephan	J. J. Bate, I. Sheft	W. H. Zacharfasen	W. T. Battner	T. T. Magal		A. J. Antoekki O. K. Seville		J. W. Goffmen	R. R. Wilson	W. B. Schasp G. T. Sesborg, J. W. Cofman,		L. A. McLaine R. P. Larsen, R. C. Vogel
Nathed of Fixing Mitrogen for Producing Oxides of Mitrogen	Frei Rod Clusters	Neutronic Resctor Control	Apparatus and method for weiding End Closure to Costainer	Method of Preparing Polonium-Boron Sources	Airborne Radistion Detector	Resonant Cavity Excitation Systom	Refractory Die for Extrading Branium	Recovery of Branium from Aqueous Phosphate-Containing Solutions	Nethod of Preparit, Metal Plaorides	Production of Thorium Pluoride	Separation of Tin from Alloys	Nethod of Producing Dense Consolidated Metalife Seculus	The state of the s	Recovery of Uranium by Aromatic	Dithiocarbemate Complexing	Incrim Chalate-Urnnyl Acetate Coupled Procedure for the Separation of Radio- active Materials	Apparatus for Producing Shadowgraphs	Recovery of Uranium Values from Residues Selective Separation of Uranium from	Thorium, Fretactinium and Fission Freducts by Perceide Dissolution Method	Uranium Leaching and Recovery Process Method of Disintegrating Refractory
2,898,277	2,898,180	2,898,281	100017	2,898,473	2,898,497	2,898,555	2,899,054	2,899,268	2,899,269	2,899,270	2,899,295	2,899,297	2,844,956	2,899,451	2 800 Ats	705'668'7	2,899,557	2,900,226	-	2,900,230
L. Crabberg	J. V. Franck, P. S. Broadhead, E. W. Skiff	Q. Van Winkle	H. E. Slenco	I. D. Sheldon, H. M. Bwendler	Total or Section 1	S. I. Welsman	R. D. Kesler, D. D. Rabb	E. C. Bohlmann	W. W. Schulz	J. W. Stevenson, R. G. Werkoms	J. 3. Buff	A. S. Coffinberry	J. G. Beach, G. R. Schaer	Q. A. Zerns	C. S. Smith	G. E. Kerr	G. E. Boyd, E. R. Russell, J. Schubert	. H. H. Hopkins, Jr.	W. E. Shaw, R. M. Spenceley, F. M. Teetrel	W. W. Schulz
Apparatus for Measuring Seutron Cross Sections	Messuring Projector	Separation Process for Protectinium and Communicat Thermal	Barium Recovery Process	Method for Determining the Stability of Fluorocarbon Oils	Marked of Personales Personal Softwareness	Mare	Extraction of Dranium	Separation of T.orium from Dranium by Extraction	Method of Dissolving Metallic Uranium	Uranium Recovery Process	Treatment of Pission Product Saste	Plutonium-Uranium-Titanium Alloys	Pretreating Thorium for Electropiating	Method and Apparatus for Determining Charged Particle Motion	Method of Rolling Drantum	Dimension Measuring Optical Sighting Device	Adsorption Method for Separating Thorium Values from Uranium Values	Solubilitation of Actinide Metal-Contain- ing Slag	Production of Uranium Tetrafluoride	Removal of Chloride from Aqueous Solutions
2,895,051	2,895,053	2,895,791	2,895,798	2,895,806	2 895 840	and reads	2,897,045	2,897,046	2,897,047	2,897,048	2,897,049	2,897,077	2,897,124	2,897,605	2,897,697	2,897,718	2,898,185	2,898,186	2,898,187	2,898,203

												d, A. S.		1, A. C. Clam		L. 3.				C. C. Stone		tom	R. L. Moore
S. W. Burnes	A. M. Starr	S. W. Sarnes	W. M. Brobeck	L. W. Baldwin	L. P. Wouters	A. O. C. Efer	W. R. Baker	R. V. Sane	S. J. Reher	C. M. Olson	R. L. Reed	P. W. Schonfeld, A. S.	A. G. Allison	L. W. Miedrach, A. C. Clam	E. Butter	E. A. Luebke, L. 3.	L. D. P. King	R. L. Moore	O. K. Seville	E. A. Boland,	V. R. Jaker	C. D. Berrington	C. F. Callis, R. L. Moore
Calutros Receiver	Calutroe Ips Source Slit Cleaner	Isotope Separating Apparatus Control	Calutron Face Plate	Caletron Control Davice	Wapor Valve	Mass Spectrometry	Transformer	Separation of Thorium from Utanium	Recovery of Flutonium from Aqueous Solutions	Chemical Method of Treating Pissionable Material	Trantum-Tantalum Alloy	Plutonium-Uranium Alloy	Slip Casting Nethod	Purification of Uranium Fuels	Nuclear Reactor Fuel Rod Assembly	Seutronic Reactor Producing Thermo-	Homogramous Muclear Power Reactor	Solvent Composition for Recovery of Metal Values from Aqueous Solutions by Solvent Extraction	Recovery of Uranium by Secondary Enthate Complexing	Mathod of Making Composite Fuel Elements R. A. Moland, C. C. Stone	Accelerated Plasma Source	Uranium Solvent Extraction Process	Septration of Ruthenium from Aqueous
2,901,617	2,901,619	2,901,620	2,901,621	2,901,622	2,901,623	2,901,624	2,901,714	2,902,338	2,902,339	2,902,340	2,902,361	2,902,362	2,902,380	2,902,415	2,902,422	2,902,423	2,902,424	2,902,454	2,902,503	2,902,590	2,902,614	2,903,331	2,903,332
P. H. Davidson	***************************************	a J. E. Bellowerry, R. A. Becn	L. A. Chlinger		H. B. Faufman, Jr., A. Weiss	J. W. Prater		F. J. Davis, P. W. Reinhardt,	R. E. Good	W. E. Bostick, V. G. McIntosh	J. P. Bubbell	E. E. Thomas	A. G. Meddock, F. Smith		S. P. Vavalides	C. D. Corpell	J. H. Peterson	A. S. Coffiaberry	J. A. McGurty, E. S. Puneton	R. G. Townsool	. C. A. COWER		H. H. Fotterson, V. H. Webber
Apparatus for Charging a Receptacle with P. H. Davidson a Passes Sublimete Born or Branch Chlorida	a person described to the state of the state	Method of Frepating a rue, giddent for a . Nuclear Reactor	eratus and Nethod		Reservor Control Device		and Partially Balogenated perivatives Thereof	Past Heutrom Spectrometer	Continuously Sensitive Bubble Chamber	Plasma Generator	Apparatus for Bandling Mixtures of Solid Materials	Electronic Multiplier Circuit	itrate	Pission Products	Reserval of Uranium from Organic Liquids	Process of Oxidizing Plutonium	Dissolution of Aluminus Jackets from Uranium Cores by Nitric Acid Containing Moreoric Mittales	Flutonium-Cerium-Cobait and Flutonium- Cerium-Sickel Alloys	Mickel-Chromium-Germanium Alloys for Stainless Steel Brazing	Costing Method	Salicylate Process for Thorium Separation C. A. Cowm		Detector for Modulated and Utmodulated Signals
2,900,237		2,300,283	2,900,315		2,900,316	2,900,424		2,900,516	2,900,518	2,900,548	2,901,007	2,501,172	2,501,313		2,901,314	2,901,315	2,901,343	2,901,345	2,901,347	2,901,408	2,901,496		2,901,613

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L. B. Dorst	D. M. Mitter, R. P. S. Black	J. M. Geogin J. W. C. Crewford	C. F. Quackenlush	A. A. Cornell, J. V. Danber, J. H. Buffner	C. W. Johnstone	W. O. Brunk	F. F. Oppenheimer	E. R. Graves, R. M. Little, Jr.	E. C. Cours	L. V. Skinner	L. R. Dauson, P. R. Fields	S. H. Smiley, D. C. Brater, R. H. Mismo	S. Leuroski, A. A. Jonke, R. K. Steumanherg	J. L. Dreher, D. E. Dohland	S. C. Thompson, J. E. Willard	C. P. Kléder, C. K. Sloan	M. Eplodney	A. Blatney	W. A. Borning, D. D. Lenning,	D. J. positive H. H. Sander	C. M. Nicholls, I. Wells, R. Spence	W. S. Calcott
Central Control Systom	Reduction in Pu Recovery Processes	Properation of High Density UO2 Process for Production of Oranium	Reactor Cooling	Welding Nethod	Rise Time Delay Discriminator	Calutron Receiver	Calutron	Low Voltage 14 Mar. Seutron Source	Impedance Alors System	Ground Clearance Indicator	Neptunium Solvent Extraction Process	Continuous Process for the Conversion of UP, to UP,	Preparation of Uktaium Hext. Tworide	Method of Reducing Plutonium with	Perrous Ions	Nethod of Controlling Corrosion in a Neutronic Reactor	Stripping Process for Plutonium	Thornal Pission Reschor Compositions and Method of Pabricating Same	Neutronic Reactor Puel Element	Pressure Transducer	Separation of Uranium, Plutonium, and Pission Products	Manufacture of UP.
2,905,612	2,906,597	2,906,593	2,906,683	2,906,852	2,906,872	2,906,876	2,906,077	2,906,903	2,907,017	2,907,023	2,907,623	2,907,629	2,907,610	2,907,631		2,207,609	2,907,700	2,907,705	2,907,706	2,507,897	2,906,547	2,908,548
C. S. Lous, M. E. McTey	J. S. Bockingham	G. T. Seaborg, S. G. Thompson, N. R. Davidson	F. E. Spedding, H. A. Wilbelm, W. H. Koller	L.	L. W. Prom, Jr.	D. O. Kippenhan	P. W. Presocv	J. L. Boush	P. S. Uall. D. T. Battertone	F. W. Schonfeld	J. J. Dickson	B. J. Thumer, R. M. Bidwell, R. P. Hammond	H. S. Cordon	J. S. Bell	L. J. Beh	L. R. Dawson	W. Pole		J. R. Johnson, A. J. Taylor	R. B. Holden, R. M. Powers, O. J. Blaber (Decessed)	J. J. Wick	L. Tonks
Nare Earth-Actinide Separation by Adsorption	Preparation of Uranium Trioxide	Separation of Fission Products from Plutonium by Precipitation	Thorium-Beryllium Alloys and Method of producing Same	Radioactive Object and Mathod of Making	Recovery of Valuable Material from Graphite Bodies	Phase Detector	Tapered Defining Slot	Calutron Receiver Structure	Positionise Device	Plutonium-Thorium Alloys	Control Device	Nuclear Reactor Foel Systems	Vacuum Trap	Ion Accelerator	Indexing Mechanism	Method of Separation of Plutonium from Carrier Precipitates	Method of and Apparatus for Withdrawine	Light Isotope Product from a Liquid Thermal Diffusion Plant	Method for Preparation of 302 Particles	Production of Uranium Metal by Carbon Reduction	Electrolytic Cladding of Lirconium on Uranium	Fuel Element for a Heutronic Resctor
2,943,333	2,903,334	2,903,335	2,003,351	2,903,383	2,903,402	2,903,581	2,903,506	2,903,537	2,904,163	2,904,429	2,904,487	2,904,468	2,904,665	2,904,720	2,905,338	2,905,525	2,905,527		2,905,528	2,905,552	2,905,599	2,905,611

2101	140.								1000											
S. B. Eliner	A. A. Jonke, J. E. A. Gress, N. M. Levitz	E. P. Epler, S. H. Bankver, L. C. Oakes	d. C. Demesk	E. E. Clemenson	R. E. Counick, G. C. Pinentel, J. W. Goffman	3. A. Pries		G. C. Eslley	R. L. Beede, E. H. Hopkins, Jr.	J. B. Birden, E. C. Jordan	E. P. Letine	R. R. Kennedy	s O. E. Deyer, E. E. Howe, E. E. Avrutik	J. C. McGuire	R. E. McCeary, W. M. Justusson	D. H. Ourinsky, R. W. Powell,	11.00	W. R. Demos	V. L. Smith, E. L. Carstensen	S. Storchhefm
Process for Recovery of Uranium Values from Impure Solutions Thereof	Multistage Fluidized Bed Beactor	Nuclear Reactor Control System	Electron Irradiation of Solids	Variable Time Delay Means	Processes for Separating and Recovering Constitutents of Newtron-Irradiated Uranium	Dissolution of Lanthanum Fluorida	Precipitates	Multichannel Analyzer	Mathod of Preparing Plutonium Tetra- fluoride	Eadloactive Battery	Wide Eand Regementive Frequency Divider and Multiplier	Elution of Uranium Values from Ion Exchange Resins	Removal of Certain Fission Product Metals O. E. Dayer, E. E. Howe, from Liquid Blasuth Compositions E. E. Avrutik	Method for Soldering Normally Hon-Solderable Articles	Heat-Treated D-Mg Alloys	Newtronic Reactor Post Element		Thermal Couple for Measuring Temper- ature in a Reactor	Time Calibrated Oscilloscope Sweep Circuit	Solid State Bonding of Thorium with Aluminum
2,911,133	2,911,290	2,911,344	2,911,533	2,911,598	2,912,302	2.912.303		2,912,577	2,913,307	2,913,510	2,913,670	2,914,378	2,914,399	2,914,425	2,914,433	2,914,454		2,914,594	2,914,697	2,914,847
S. I. Weissman, M. L. Perlman, D. Lipkin	E. Segre, J. W. Kennedy (Decessed), G. T. Seaborg	L. Crambers	E. K. Bulet	A. B. Meservey, R. H. Rainey	E. T. Colichan	E. T. Colichnan	E. T. Colichman	J. V. Franck	E. C. Creuts	N. R. Davidson, S. Pried	Q. Van Minkle, E. A. Kraus	D. H. Curitasky	P. Danjala	R. J. Teitel, E. Patchogue	E. C. Crentz, L. A. Ohlinger,	A. M. Weinberg, G. J. Toung	L. Esplan	J. W. Prazer		R. A. James, S. G. Thompson
Process for Production of Plutonium from Its Oxides	Producing Energy and Radioactive Fission Products	Apparatus for Measuring Total Neutron Cross Settlons	Method for the Recovery and Purifica- tion of Berkeliam	Process for Decontaminating Thorium and Uranium with Respect to Suthenium	Inhibiting the Polymerization of Nuclear Coolents	Nuclear Reactor Coolant	Nuclest Reactor Coolant	Cavity Excitation Circuit	Reactor Component	Method of Preparing UF6	Freparation of Polonium, Protactinum or Mixtures Thereof in Ageous Solution from Bismuth, Lead, Zirconlum and/or	Columbium Values	Metal Carbides and Mitrides	Uranium Bismuthide Dispersion in Wolten Note:	Mentronic Beactor		Solvent for Extracting Actinide Salts	Method for Producing Isotopic Methanes from Lithium Carbonate and Lithium	Rydride	Mathod of Recovering Plutonium Values from Aqueous Solutions by Carrier Precipitate
1,908,563	,908,621	,908,822	\$09,405,	909'606'	989,486	1,909,487	,909,488	182,909,731	1,910,177	1,910,344	2,910,345	010 010	200 416	2,910,417	5 910 A18		2,910,442	2,910,519		2,911,282

I. L. Powler, L. A. E. Matt	G. T. Seaborg	J. S. Buckingham, J. L. Carroll	A. G. Buyers, E. E. Motts, F. D. Rosen	L. P. Batch	E. C. Strumess, K. Z. Horgan, J. R. Johnson, T. M. McTay	S. S. Kilner	E. W. Colbeck	W. E. Zinn	K. D. Lante, P. M. Clark	M. L. Eyman, J. E. Savolainen	C. J. Barton, W. R. Orfmes	J. B. Anderson	W. T. Leland	J. S. Luce		E. S. Chambers, A. A. Carren, D. G. Elppenhan, W. A. S. Lamb,	R. J. Riddell, Jr.	B. I. Spinred	P. H. Davidson	H. Inouye, W. D. Manly.	T. L. Rochs	b. Pairstein	E. J. Lofgren
Geiger-Hailler Type Counter Tube	Extraction of Flutonium Values from Organic Solutions	Uranium Decontamination	Decontamination of Neutron-Irradiated Reactor Fuel	Radioactive Concentrator and Radiation Source	Self-Sintering of Radioactive Wastes	Process of Recovering Drantum	Uranium Alloys	Nuclear Reactor Including a Package Safety Device	Duc-May Presse Valve	Removal of Chloride from Aqueous Solutions	Molten Fluoride Suclear Reactor Fuel	Westronic Resetor	Ion Source	Device and Method for Producing a High	(See bottom of last page)	Apparatus for Heating Ions		Thermal Seutronic Reactor	Mathod of Operating a Calutron	Wickel - Base Alloy	Barelines for Beller Solds and the	Analyzer Analyzer	Calutron
2,917,647	2,918,349	2,918,330	2,918,366	2,918,700	2,918,717	2,919,175	2,919,186	2,919,236	2,919,710	2,919,972	2,920,024	2,920,025	2,920,200	2,920,234	*2,920,235	2,920,236		2,921,007	2,921,199	2,921,850	2, 427, 614		2,922,044
D. L. W. Weaver, R. S. MecCormick, Jr.	S. Priod, E. L. Boumbach	M. Kolodney		C. H. Bean, R. S. Macherey	H. W. Crandell, T. E. Bicks, B. Bubin, J. R. Thomas	W. Walkinshaw, L. B. Mallett	D. H. Schell, H. Sheinberg	D. R. Miller, G. T. Seaborg, S. G. Thompson			W. B. Tolley, R. C. Smith	G. T. Seaborg, R. A. James	C. S. Garner		H. M. Feder, R. L. Muttell	H. A. Saller, (Decessed)	J. P. McBride		J. J. Grebe	R. S. Dreffin	L. C. Oakes, C. S. Walker	L. L. Pope	E. K. Richards
Volume Compensating Means for Pulsating Pumps	Plutonium-Hydrogen Reaction Product, Method of Propering Same and Plutonium Brades Wheneford	3 Process	Formation of Intermetallic Compound Dispersions	Method of Making Fuel Eloments	Continuous Chelation-Extraction Process for the Separation and Purification of Metals	Loaded Wave-Cuides for Linear Accelerator W.	Tungsten Base Alloys	Utanous lodate as a Carrier for Plutonium D.		from Hexavalent Plutonium by Carrier Precipitation	Method of Producing Tetrafluoride	Method of Recovering Transurento Elements for an Atomic Sumber Below 95	izing Plutonium Ion with	Biomuthate Ion	Separation of Plutonium	Pabrication of Uranium-Aluminum Alloys	g the Dispersibility	מי סיתול נפורינים	Wuclear Reactor	Neutronic Reactor Control	Heutronic Reactor Control Rod Drive	Pressure Sensing Device	Radiation Detection and Teles. ng System
2,915,016	2,915,362	2,915,387	2,915,445	2,915,815	2,916,349	2,916,710	2,916,809	2,917,358	2,917,359		2,917,360	2,917,361	2,917,362		2,917,382	2,917,383	2,917,406		2,917,443	2,917,444	2,917,445	2,917,597	2,917,633

V. Josephson	3. A. Print	m W. R. Davidson, J. J. Bats	J. T. Saber	p. G. Schweitzer, J. R. Weeks, O. F. Kamerer, D. E. Gerinsky	R. K. McGeary, W. M. Justusson	able W. H. McCorkle	J. S. Luce, J. A. Mertin	R. Truell, J. de Klerk,	J. A. De Shong, Jr.	W. R. Buey	S. Pairstein	J. S. Luce	a A. G. Gray	E. A. Mason, C. M. Cobb	. J. T. Weillis, J. M. West		7. Barteck, S. Dondes	E. P. Migner, S. C. Creutz	J. P. S. Watterberg,	R. V. Neldigh	E. M. Cremer, F. B. Ellinger, C. C. Land	I. P. Weeks, W. V. Coeddel
High Energy Gaseous Discharge Device	Concentration of Pu Using an Lodate Precipitate	Mathod for the Preparation of Plutcalum Emlides and Oxylimitdes	Ternary Alloy-Containing Flutonium	Method of Forming a Protective Costing on Perrous Metal Surfaces	Esst Treated U-Mo Alloy	Neutronic Reactor with Accessible Thimble W. H. McCorkle and Designacy Cooling Pestures	Ios Acceleration System	Ultrasonic Seutron Dosimeter	Costrol Limiter Device	Jacketed Branium Muclear Reactor Puel Element	Non-Blocking Stabilized Feed Back Amplifier	Intense Energetic Gas Discharge	Iron Coated Uranium and Its Production	Method for Producing Thorium Tetra- chloride	Heutronic Reactor Construction and	Operation	Source of Products of Suclear Fission	Cooled Neutronic Reactor	Botary Switch	Are Discharge and Mathod of Producing the Same	* Delta Phase Plutonium Alloys	Method of Pabricating a Dranium-
2,925,512	2,926,067	2,926,068	2,926,083	2,926,111	2,926,113	2,926,127	2,926,251	2,926,261	2,927,070	2,927,071	2,927,165	2,927,232	2,928,168	2,928,721	2,928,779		2,928,780	2,928,781	2,928,910	2,928,966	2,929,706	2,929,707
N. W. Glass	L. C. Teng	L. Burris, Jr., J. B. Enighton, B. M. Peder	S. W. Bernes	J. L. Putnen		V. Josephson	W. G. Rielson	T. I. Taylon, W. Spindel	D. F. reports	C. W. Bjorklund, E. Bens, W. J. Maranen, J. A. Lenry,	K. A. Watsh.	F. E. Scott, V. Josephson		H. F. Johnstone	L. J. Roch, E. Butter	E. E. Anderson, L. B. Asprey	E. C. Crests	E. C. Beel	S. J. Rimshav	S. Katz, C. W. Weber	G. E. Choppin, S. G. Thompson, S. C. Barvey	P. M. Reyes
Eigh Coaxiel Photomultiplier Pube	Particle Accelerator	Production of Purified Granium	Control System for Isotope Separating Apparatus	aratus for Testing the ecific Atomic Elements	in a Substance	Magnetic Method for Producing High Velocity Shock Meres in Cases	Random Pulse Generator		Process of Separating Inromaium Values from Enfaitum Values by Solvent Extraction with an Alkyl Phosphate	Method and Means for Electrolytic Puri- fication of Plutonium	Wlastonessmatte Canaratton of Tactoness	Ameratus for Producing Bigh Velocity	Shock Mayes & Gases	Apparatus for Cleaning Cases with Electrostatically Charged Particles	Fuel Sandling Mechanism	Solvent Extraction Process for Plutonium	Method of Jacketing a Pissionable Body	Method of Separating Plutonium	Method for the Recovery of Cestum Values	Continuous Gas Analyter	Cationic Exchange Process for the Separation of Eare Earths	Low Energy Counting Chambers
2,922,048	2,922,061	2,922,711	2,922,682	2,922,886		2,922,890	2,823,588	2,923,601	2,923,607	2,923,670	3 601 800	2.923.852		2,524,294	2,924,483	2,924,506	2,924,877	2,925,322	2,925,323	2,925,327	2,925,431	2,925,509

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S. G. Thompson	M. Ader, H. E. Rynam	C. M. Olson	J. B. Kaighton, M. M. Feder	W. C. Schleiner	E. Brooks		W. A. Bostrom, R. S. Boof, Jr.	W. K. Anderson, W. E. Bay	N. E. Buston	Q. A. Estis, O. A. Anderson	L. Cohen	D. M. Collifer, L. A. Mecke, J. P. Palmer	D. F. Martick		R. E. Viewall	S. Untermyer	G. Dessauer	J. E. MacSeill, J. T. Extabrook	L. N. Moore	B. A. Holand, C. C. Stone	W. R. Balkwell, Jr., G. B.
Precipitation Nothod for The Separation of Plutonium and Bare Zerths	Recovery of Americium	Scavenger and Process of Scavenging	Mathod for Purifying Uranium	Aluminum	Nuclear Reactor Poel Element and Method	of Pennincture	Frocess of Making Puel Elements for Neutronic Resctors and Articles Produced Thereby	Control Rod Alloy Containing Noble Metal W. E. Anderson, W. E. Bay Additions	Warfable Area Control Rod for Nuclear Passion	Frequency Stabilizing System	Mathod of Centrifuge Operation	Simultaneous Differential	Process of Reducing Plutonium to	Tetravalent State	Separation of Rare Sarth Metal Fission Products from Liquid U-Bi	Steam Forming Neutronic Reactor and Method of Operating It	Determination of Specific Sentronic Reactivity	Reactor Control System	Fission Product Removal From Organic Solutions	Apparatus and Method for Are Welding	Radiation Desimater
2,934,402	2,934,403	2,934,406	2,934,425	aradaret.	2,934,482	A 441 144	4,734,463	2,935,401	2,935,456	2,935,686	2,936,110	2,936,119	2,936,213		2,936,231	2,936,273	2,936,274	2,936,277	2,936,318	2,936,363	2,936,372
c M. A. Steinberg	R. P. Hamond, L. D. King	J. E. Mahlmeister, W. S. Peck, W. V. Esberer, A. C. Williams	G. M. B. Souricius, G. K. Busch	D. Finkelstein	W. E. Roske, W. L. Lyon	C. W. Johnstone	B. F. Peris	R. 3. Duffiteld		A. T. Gresky, E. O. Nurmi, D. L. Foster, E. P. Wischow, J. E. Sevision.	W. L. Lyon	H. Burdts, Jr.	E. Ferni (Deceased)	J. W. Lingsfelter	N. C. Christofiles, K. W.	a F. 5. McCusig, R. D. Misch	D. M. Eitter, R. P. S. Slack	E. E. Rymen	E. O. Levrence, E. M. McMillen, L. W. Alvares	J. S. Poster, Jr.	J. S. Luce
Method for Coating Graphite with Netallic M. Cathides	Convection Reactor	Notlear Reactor Core Design	Radiation Measuring Devices	Iou-Stabilized Electron	Regeneration of Resctor Fuel Elements	y Scaler	Process for Separating Flutonium by Repeated Precipitation with Amphoteric Hydroxide Carriers	Metathesis of Plutonium Carrier Lasthanum Fluoride Precipitate with an	Albali	Preparation of Dibasic Aluminam Nitrate	Regeneration of Resctor Puel Elements	Neutroale Reactor Costrol	Heutroale Reactor	Apparatus for Arc Welding	Electron Gum	Method and Alloy for Bonding to Ilreonium F.	Concentration of Pv Using Oxalate Type Carrier	Dissolution Method of Removing Sonding Agents	Electromaclesr Resctor	Meutron Source	Eigh Voltage Jon Source
2,929,761	2,929,767	2,929,768	2,929,932	2,929,951	2,930,738	2,931,570	2,931,761	2,931,702		2,931,706	2,931,721	2,931,761	2,931,762	2,931,889	2,931,939	2,932,887	2,933,369	2,933,421	2,933,442	2,933,611	2,933,630

Righ Temperature, Righ Power Reter- R. P. Bamcond, H. M. Basey, ogsmeous Ratlear Resctor	Fuel Element for Moclear Reactor W. E. Roske, E. A. Dvans, D. W. Brite	Scintillation Spectrometer P. R. Bell, J. E. Francis	elding Device	Crane Positioning Apparatus W. Landsledel, E. Wolff	Adsorption-Bismath Phosphate Method E. R. Russell, A. W. Admson, for Separating Phosphate G. E. Boyd	Method of Dissolving Massive Flutonium J. P. Facer, W. L. Lyon	Separation of Flutonium Values from R. H. Beaton	order negat values as Agences Solutions by Selective Complexing and Adsorption	Process for Separating Indine-132 from M. W. Green, G. Semos, Fission Products W. D. Tucker	Process of Preparing Lirconium Oxychior- E. A. Wilhelm, M. L. Andrews ide	Method of Separating Ureaium from Alloys P. Calott, H. E. Shoumaker	Heating and Cooling System for Calutron A. M. Starr	Transformer for Joining Unbelanced to B. J. Bittner, R. R. Opperson		Catalytic Pecombinat for a Baclest L. D. 7. King Reactor	Antenna . D. K. Tearout, H. L. Jergins	Single-Step Conversion Wo to UF4 J. E. Moore	Process for Jacksting a Core G. A. Last	Buthenium Decontamination Nethod A. T. Gresky			and a	3	3	3	3	7 4	3 4	3 i
High Temperature, High Po ogeneous Suclear Resctor	Puel Element	Seintillation	Seutron Absorp	Crace Position	Adsorption-31 for Separatin	Method of Dis	Separation of	by Selective	Process for Separ Fission Products	Process of Pr ide	Hethod of Sep	Heating and C	Transformer f	Balanced Tran	Catalytic Pec Reactor	Dual-Ridge Antenna .	Single-Step C	Process for J	Ruthenium Dec		Protests for C	Process for C	Process for Col. Seutronic Resch and Core System	Frocess for (Seutronic Re- and Core Syst	Frocess for (Seutronic Re- and Core Sysi	Frecess for (Seutronic Re and Core Syst Ion Source	Frecess for (Sentronic Ba and Core Syst Ion Source	Frocess for (Seutronic Ba and Core Syst Ion Source Apparatus for	Erucess for Col Seutronic Rosc and Core Systes Ion Source Apparatus for lattor Plasmas
2,940,915	2,941,933	2.942.109	2,942,116	2,942,736	2,942,937	2,942,938	2,942,939		2,942,943	2,942,944	2,942,968	7,943,195	2,943,275		2,943,921	2,944,258	2,944,873	2,945,293	2,945,740	2000000	2 945 703	2,945,793	2,945,793	2,945,794	2,945,794	2,945,793	2,945,793	2,945,793 2,945,794 2,945,972 2,946,914	2,945,793 2,945,972 2,945,914 2,946,914
E. H. Wilson, P. M. Class	L. C. Lanon.	L. S. Wilnor	J. Schubert	C. A. Blake, Jr., L. B.	Brown, B. E. Morner H. A. Wilhelm, E. R. Stevens	A. O. Allem, C. J. Sochanadel	E. T. Bahn	R. A. Chapellier	J. J. Pitzgerald, C. G. Detwiler, Jr.	W. J. Enow, S. G. Thompson	L. G. Overholser, C. J.	Sertion, ot., J. W. Benery	F. E. Spedding, E. A. Wilbeln	A. Blainey	J. C. Anderson	H. Treshov	C. B. Graham, I. Spievak		J. N. Elx, J. E. Cumingham		W. B. Wilson	W. B. Wilson H. P. Robinson							
Radiation Detector	Method for Joining Aluminum to Stainless Steel	Tube Shearing Valve	Separation of Plutonium From Fission Products by a Colleid Removal Process	Solvent Extraction Process for Dranium	from Chloride Solutions Method of Producing Michigan Metal	Suppression of Water Decomposition	Method of Making UO2-84 Slurries	Control Red Prive	Personnel Sestron Docimeter	Method of Separating Pu From Methathesizing BiFO ₆ Carrier	Separation of Safnium from Sirconium		Nuclear Puel Composition	Method of Producing Shaped Bodies from Powdered Metals	Method of Making Refractory Bodies	Superheating in a Boiling Water Reactor	Neutronic Reactor Counter Method and	System	Feel Element Fabrication Method		High Pressure Dies	High Pressure Dies Automatic Counter	High Pressure Dies Automatic Counter Sethod of Impregnating a Porous Material	Righ Pressure Dies Automatic Counter Sethod of Impregnating a Porous Material Concentration Process for Plutonium Toms,	Righ Pressure Dies Automatic Counter Sethod of Depregnating a Porous Material Concentration Process for Plutonius Iona,	High Pressure Dies Automatic Counter Sethod of Impregnating a Porous Material Concentration Process for Plutonium Ions, in am Onddation State not Greater than	Righ Fressure Dies Automatic Counter Sathod of Dayregnating a Porous Material Concentration Process for Plutonius Iona, in an Orderion State and Creater than	High Pressure Dies Automatic Counter Method of Dayregnating a Porous Material Concentration Process for Plutonium Ions, in an Oxidation State not Greater than 44, in Amerous Acid Solution.	High Fressure Dies Automatic Counter Sethod of Impregnating a Porous Material Concentration Frocess for Plutonium Ions, in am Oxidation State not Greater than 44, in Aqueous Acid Solution
2,936,401	2,937,438	2,937,654	2,937,924	2,937,925	2,937,939	2,937,981	2,937,982	2,937,984	2,938,121	2,938,768	2,938,769		2,938,784	2,938,791	2,938,807	2,938,843	2,938,844		2,938,846		2,938,996	2,939,633	2,939,633	2,939,633	2,939,633 2,939,803 2,939,803	2,938,996 2,939,633 2,939,803 2,940,819	2,938,996 2,939,633 2,939,803 2,936,819	2,938,996	2,938,996

G. T. Sasborg, S. C. Thoupson	M. L. Picklesimer, W. C.	P. A. White	W. R. Combill, N. D. Greens	O. N. Carlson, P. A. Schmidt F. E. Spedding	F. W. Schonfeld, J. T. Weber	G. T. Seaborg, A. C. Wahl	R. F. Vehrnsten	G. T. Seaborg, R. W. Stoughlon	L. P. Wouters	R. M. Sugermen, E. Patchogue	E. E. Sunder	F. C. Bushing	C. W. Slarstrom	F. C. Rushing	F. C. Rushing	H. H. Stopkins, Jr.	W. N. Sensen	G. W. Bodgers, D. P. Anderson, G. E. Bussey, L. H. Minnary	J. E. Althouse	A. J. Shack	P. B. Bennedy, E. B. Smith, Jr.	A. G. Meddock, A. E. Booth
Concentration and Decontentation of Solutions Containing Flutcoins Talues by Bimmeth Phosphare Carrier Precipitation Nethods	Mathod of Suppressing UAl, Formation in U-Al Alloys	Mass Spectrometer	Heat Transfer Nethod	Reduction of Fluoride to Metal	Plutonium-Eirconium Alloys	Electrodeposition of Neptumium	Method for Electrodepositing Polonium	Mathed of Producing U-33	Radiation Wave Detection	Sampling Oscilloscope	Lero-Time Indicator	Centrifugal Pump and Shaft Scaling Names	Gas Bearing	Cushioned Bearing	Centrifuges	Processing of Neutron-Irradiated Utenium	Electrolysis of Thorium and Dranium	Analog-to-Digital Data Converter		Apparatus and Mathod for Injection Casting	Refrigeration System Especially for Very Low Temperature	Separation of Plutonium Values from Ursaium and Pission Product Values
2,950,168	2,950,188	2,950,388	- 2,950,604	2,950,962	2,950,967	2,951,018	2,951,020	2,951,023	2,951,158	2,951,181	2,951,201	2,951,448	2,951,729	2,951,730	2,951,731	2,951,740	2,951,793	2,952,012		2,952,056	2,952,139	2,952,511
E. G. Starr. C. Starr. L. W. Extex, R. W. Cumpbell, R. M. U. Hannyal.	M. A. Otavita	J. W. Beams, L. B. Scoddy (Deceased)	C. Skarstrom, K. Cohen.	E. C. Bray G. T. Seabors		F. G. Foots	J. L. Zembrow	C. A. Levins, W. E. Skiens G. E. Moore	E. V. Bockney	R. T. Post	J. W. Same, L. S. Sneddy	(Decessed)	R. E. Moore	P. C. Rushing	K. Treshov	E. M. Peder, H. R. Challow		J. A. Eassohoff, J. D. Plavechan	C. V. Wheelock	G. T. Sasborg, W. J. Blandel, M. T. Smiling, Jr.		a. U. ponimento, J. C. Crisse, Jr.
Process of Imprograting Graphics with a Untakium Compound Hethod of Naking Puel Elements	Means and Method for Producing a Vacuum	Centrifuge Ind Cop	Centrifuge Apparatus	Flutonium and an		Ternary Alloys of Ursaium, Columbium, and Zirconium	Method of Makin; Wire Puel Elements		Control for Isotope Separating Apparatus		Centrifuges		Pused Salt Process for Recovery of Values R. E. Moore from Used Muclear Reactor Puels	rifuges		a Crucibles		Self-Regulating Boiling-Water Buclear Reactors	Concentric Tubular Puel Element	Method for Separation of Plutonium from Ursaium and Pission Products by		
2,946,699	2,947,465	2,947,471	2,947,472	2,947,601		2,947,621	2,947,676	2,947,774	2,947,867	2,947,902	2,948,572		2,948,586	2,949,045	2,949,202	2,549,390		2,949,414	2,949,416	2,950,166	2.040.167	

	N. K. Bernander, R. J. Jones	N. Levenson	C. W. Skarstron	W. C. Spear	H. M. Poulfot	W. M. Londers, W. S. Beecht		W. I. Linlor, Q. A. Kerns	G. H. Robison, S. Merrick, J. F. Dickson	J. D. Gellegher, J. L. McKibben	J. E. Davidson, W. L. Robb		L. D. P. King	E. P. Wigner	H. O. Honson	I. R. Axelrad	J. S. Luce, L. P. Smith	J. L. Marshall, Jr.	R. W. Bogle	R. W. Bogle	P. C. Stevenson		E. H. Cooks	R. E. Peterle, F. E. Sthon, E. S. Arms	3. J. Sarby, D. A. Benson, C. E. May
THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	Neutron Source	Cave Window	Scaling Means for Relatively Rotatable Members	Scintillation Exposure Sate Detector	Fluid Controlling Means	Direct Insot Process for Productre	Dranium	Pulsed Indicator Circuit	Coincidence Occurrence Indicator	Multi-Channel Electric Pulse Baight Analysar with Bin.ry Coded Decimal Biaplay	Method of Presering Branium, Thorium,	or Plutonium Oxides in Liquid Bismuth	Water Boiler Reactor	Neutronic Reactors	Power Breeder Reactor	Settable Neutron Radiation Shielding Material	Co-Axial Discharges	Methods and Means for Obtaining Sydro- magnetically accelerated Plasma Jet	Redio Altimeters	Radio Ranging Devices	Treatment for Improving the Operation	of Strong Base Anion Exchange Resins	Maittple Input Steary Adder Employing Magnetic Drum Digital Computing Apparetus	Separation of Gases by Diffusion	Separation of Ruthenium Compounds from Gaseous Mixtures
	2,957,094	2,957,210	2,957,709	2,958,779	2,959,326	2.960.338		2,960,653	2,960,687	2,961,159	2,961,390		2,961,391	2,961,392	2,961,393	2,961,415	2,961,558	2,961,559	2,961,652	2,961,653	2,962,351		1,963,223	2,964,124	2,964,130
	W. E. Rostin	E. V. Neston	G. T. Sasborg	E. R. Boller, J. W. Robinson	C. A. Goodell	T. E. McKennile	C. Michelson	H. L. Anderson	A. H. Powler, G. B. Seaborn, Jr.	G. Stricklard, F. L. Hörn, H. T. White	E. S. Eckberg	J. G. Berrick, B. A. Fries		E. P. Wigner	R. L. McCarthy, J. M. Stone	D. F. Pupperd, G. W. Mason	J. A. McGurty, J. P. Collins, V. P. Calkins	A. O. Allen, J. M. Caffrey, Jr.	R. F. Eing, C. D. Hoak,	V. E. Parker	J. S. Luce	R. B. Heel, W. J. Callagher	V. 2. Shields	F. H. Spedding, J. E. Povell	J. W. Schulte, J. P. Suttle
2 3	Sintering Netal Oxides	Neutronic Reactor Control Element	Muclear Conversion Apparatus	Jacketed Fissionable Member 1	Design Recovery from Aqueous Solutions C	Strontium Precipitation	Electromagnetic Release Machanism	Neutronic Reactor	Range Increaser for Poematic Gauges	Pump Construction	Molecular Vacuum Pump	Process of Eliminating Hydrogen Peroxide J		Heutronic Reactor	Low-Loss Calle and Method of Fabrication 1	Separation of Rare Earths by Solvant Extraction	Oxidation Resistant Chromium Alloy	Irradiation Method of Converting Organic A. Compounds	Ion Pulse Ceneration		Bollow Carbon Arc Discharge		Mas Spectroster Lask	Nethod of Separating Bare Earths by Ion Exchange	Nethod and Heans for Radiation Doeinstry J.
	2,952,535	2,952,600	2,952,601	2,952,603	2,952,640	2,952,641	2,952,802	2,953,510	2,953,918	2,953,993	2,954,157	2,954,273		2,954,335	2,954,421	2,955,913	2,955,937	2,955,997	2,956,169		2,956,195	2,956,201	2,956,771	2,956,858	2,957,080

J. J. Goett Gescaased) E. P. Wigner, A. M. Weinberg H. O. Mouson J. J. Grebe J. A. Easse	D. M. Olson D. M. Collier, L. A. Meeis, J. P. Falmer R. W. Stoughton	J. S. Enighton S. Greenberg, R. D. Misch, W. E. Enther	C. D. Warton, A. L. Gardner W. J. Seith D. A. Mack O. E. Pry	R. Cooperstein, G. E. Anderson R. E. Paul J. A. Aurier, R. E. Zeller, G. S. Burst	A. J. Buress C. M. Corrdon S. E. Allison E. P. Wigner, L. A. Oblinger,
Neutronic Reactor System Nesses for Froducing Flutonium Chain Reactions Type Fuel Element Nuclear Reactor Slocking Oscillator Double Pulse Generator	Righ Temperature Microscope and Purnace Electronic Multiplier Separation of Plutonium loss from Solution by Adsorption on Eleconium Pyrophosphate	Process for Removing Noble Metals from Uranium Corrosion Reduction	Microwave Norms and Circuitry for Plasma Measurements Filter Media and Method of Making Pulse Inverting Transformer Direct Coversion of Uranium Turnings	Preparation of Beryllium Oxide of Elgh R. Cooperatein, G. E. Purity Fuel Slug Empture Detector R. E. Paul Seutron-Insensitive Beta-Gamma Dosimeter J. A. Aurier, R. E. Zedler, G. S. Burst	Method and Means for Increasing Electron Buission Method of an Irradiation Transmutation Capsula Reactor Mellows Seal on Reactor Coolent Pube
2,969,311 2,969,311 2,969,312 2,969,303 2,969,507	2,969,712	2,970,050	2,971,907	2,974,012 2,974,096 2,974,248	2,974,251 2,975,113 2,975,114 2,975,115
N. F. Stone, R. J. Force, W. W. Gleon, D. S. Cagle S. B. Cmat, R. T. Bayard R. C. Meyare, C. J. Benkin, Jr. R. E. Ruppel, C. Z. Winters C. M. Cooper	W. P. Bell M. L. Picklesiner, W. C. Thurber W. E. Crumsitt, W. E. Berdwick M. Milleron G. A. Reed	O. Fiint W. C. Thurber	J. D. Cow C. T. Ennsen, J. D. Salisbury B. A. Esmadord, C. L. Segsser, C. L. Torry, R. R. Sneenberg W. L. Lyon, R. B. Moore	E. Loeb W. L. Wymand, W. I. Steinbamp D. M. Davis, E. D. Oupton, J. C. Bart, A. P. Fall	E. L. Anderson E. Permi (Deceased) P. E. Ball, E. J. Meckin, Jr., A. Simon E. F. Pinniston, G. S. Pisil
Accelerator Target Positioner and Control K. F. Stones, R. J. Pores, Gircult Therefor S. D. Gunt, B. S. Cagle Sentron-Counter S. D. Cant, R. T. Bayard Metal Senistivity Messuring Device R. C. Meyers, C. J. Semini Casting Furnaces R. E. Buppel, C. E. Winten Deflection Pressure Tester C. M. Cooper	Sensitive Pressure Gauge Neutronic Reactor Fuel Element Recovery of Ruthenium Values Jon Pump Mathod and Apparatus for Controlling Direct-Cycle Neutronic Resectors	Fuel Elements for Thermal-Fission Nuclear Reactors Newtronic Reactor Fuel Composition Cassess Mischarms Fuel composition	Automatic Prequency Control System Sampling System Production of Plutonium Metal	Fuel Element for Newtronic Reactors Reactor-Flash Soller-Flywheel Power Flant Fusion Welding Method and Apparatus Beta-Camma Personnel Dosimeter	Method of Testing Thermal Hestron Fissionable Material for Purity Method of Producting Inergatic Plasma for Neutron Production Neutronic Rescitor Fuel Element and Method of Manufacture
2,966,710 2,965,781 2,965,840 2,966,794 2,966,794	2,967,141 2,967,141 2,967,209 - 2,967,257 - 2,967,809	2,967,811	1,948,007. 2,948,183	2,968,601 . 2,968,602 2,968,715 2,968,731	2,969,307

B. P. Peris		S. Lewroski, A. A. Jonke		A. U. Suyeata	W. E. Kingston	H. S. Brown, E. C. Bohinson		S. Vogler, M. Beederman	A. S. Wilson		K. M. Harmon, S. Wichers	G. T. Seaborg, E. W. Brown	R. P. Vehraans	B. M. Abraham, H. E. Flotow	P. T. Miles	C. F. Leyse, G. E. Putom	A. C. Band, Jr.	M. P. Senicovich, J. P. Mam,	D. K. Geston	T. McKensie, W. W. Schols	K. Aslend, R. W. Enemning, R. K. Barmon	C. E. Prents, W. E. Cavley	L. Noses
Mathod for Recovering Plutonium Values	Carrier Frecipitate	Method and Apparatus for Calcining Salt	Solutions	Process for Descaing and pecontamin- ating Metals	Nuclear Reactor Feel Element	Production of Plutonium Pluoride from	Signath Prosporte Frecipitate Contenning Plutonium Values	Dranium Decontamination with Respect to Lirconium	Separation of Uranyl and Nuthenium Values by the Tributyl Phosphate Ex-	traction, process	Preparation of Anhydrous Cerium Chioride, Dranium Browide, or Plutonium Fluoride	Preparation of Neptunium Hexafluorida	Pretreating Dranium for Matal Plating	Puel for Seutroaic Reactors and Process of Making	Meutronic Reactor Design to Reduce Meutron Loss	Pood Irradiation Reactor	System for Unloading Reactors	Merchant Marine Ship Resetor		Cestum Recovery	Method and Apparatus for Pulsing A Charged Particle Beam	Tube Splitting Apperatus	Electromic Sivens Wind Direction Indicator
2,981,591		2,981,592		2,781,943	2,981,672	2,982,599		2,982,600	2,982,601		2,982,603	2,982,604	2,982,702	2,982,708	2,962,709	2,982,710	2,982,711	2,982,713		2,982,785	2,962,917	2,983,042	2,983,144
F. Daniels	W. E. 2inn	C. D. Emons	R. W. Bogle	H. O. Monson	S. L. Handforth	O. H. Koski	J. A. Wheeler	J. W. Loeding, A. A. Jonke	D. W. Shannon	T. K. Wood, (Decessed)	E. A. Evens, E. J. Anicotti, W. E. Boake	G. S. Brunson, Jr.	R. C. Coertz, J. H. Grimson, F. A. Kohut	E. E. Hyde, L. I. Katain, M. J. Wolf	R. S. Goeckersenn	The second		E. E. Metcalf, H. W. Johnson	E. G. Schmieding, A. E. Buehle	R. P. Angler	E. L. Bradshav, J. W. Thomas	R. J. Burleigh	J. W. Gratian, A. Gratian, R. T. Hisset, M. E. Bourns, H. D. Creas
Neutronic Restor	Fast Heutron Reaction System	Vertical Rod Drive Mechanism	Radio Ranging Davice	Steam Generator	Charging Device	Processing of Cesium Metal Cyanides	Neutronic Reactor	Method of Reducing Aqueous Radioactive Suclear Westes to Solid Porm	Nothed of Improving Corresion Resistance of Elecanium	Process of Producing Branium	Reactor Fuel Assembly	Two-Speed Device	Manipulator For Slave Robot	Solvent Extraction Process for Protectiatum	Recovery of Plutonium by Carrier Precipitation	Market of Market State Welfare Assessment	merhos or Detaining Uniterm Costings on Graphite	Seutrosic Reactor	Extraction of Uranium	Preparation of Compacts made from	Air Redioactivity Monitor	Clashing Beam Particle Accelerator	Radio Ranging Device
2,975,116	2,975,117	2,975,119	2,975,414	2,975,770	2,975,912	2,976,121	2,976,227	2,977,194	2,977,204	2,977,220	2,977,297	2,977,814	2,978,118	2,978,294	2,978,295		2,3/6,336	2,978,398	2,979,379	2,979,399	2,979,620	2,979,635	2,980,905

												3	NO	IICES							
C. E. Cooley A. Hirsch	L. A. Ohlinger	A. B. Shuck, W. C. Shav S. G. Thompson, D. R. Miller,	R. A. Jones		R. A. Schneider	W. E. Esselman, C. M. Raplem G. R. Bredem, J. R. Dietrich	J. S. Dixon, J. J. Katz, E. F. Orleason	C. V. Ellison, T. C. Emion		3. F. Peris, E. E. Stressel			G. T. Staborg		R. H. Beaton	K. B. Srown, D. J. Crouse, Jr.	1. Perlamm, S. G. Thompson, 1 B. B. Cunningham	P. Chiotti	S. Greenberg	E. O. Hollen	W. G. Bonson
Spiral Contractor for Solvent Extrac- tion Column Lines Selsyn or Stycro-transmitter	Method of Pabricating Tubular Units	Control for Rolling Mill Arsenate Carrier Precipitation Method	of Separating Plutonium from Neutron Irridated Uranium and Radiosctive	Pission Products	Cestum Recovery from Aqueous Solutions	Pressure System Control Noclear Reactor	Method of Preparing Complexes of Flutoniam with Diketones	Process for Segregating Uranium from	Flutonism and Pission-Product Contamination	Improvement in Decontamination of Aqueous Acidic Solutions Containing	Flutonium and Fission Product Values by providing Cerous and/or Hercuric Lons	Therein Frior to a Bismuth Phosphate Carrier Precipitation	Extraction of Bexavalent Plutonium	from Aqueous Acidic Solutions with Ethyl Sulfide	Adsorption of Plutonium and/or Pission. Products from Aqueous Solution	Extraction of Thorium and Dramium Values from Acid Leach Liquors	Metathesis of Eismuth Phosphate Flu- I. Perlaam, S. G tonium Carrier Precipitate with an Alkali B. B. Cumningham	Uranium Recovery from Metallic Masses	Uranium-Titanium-Nichima Alloys	Method and Apparatus for Producing ; wer	Reactor
2,988,429	2,988,812	2,989,367	No. of Lot		2,369,368	2,589,453	2,989,556	2,990,240		2,990,241			2,990,242		2,990,243	2,990,244	2,990,245	2,990,273	2,990,274	2,990,348	2,990,349
F. L. Born, J. E. Binns E. H. Hyman, J. J. Estx	M. Treshow	E. Loeb, J. H. Micklas	C. H. Bassett	C. E. Prests, W. E. Ceuley	C. N. Bassett	F. E. Lynch, L. D. Falmer, S. F. Poppendick, G. M. Winn	R. T. L. Seset, E. S. Crane, A. C. Gratian, J. W. Gratian	D. D. Ealen	H. H. Van Tayl	H. W. Hewson, E. P. Wigner, S. P. Epler, T. E. Cole	C. J. Banicen, Jr.	A. M. Weinberg, H. C. Vernon	J. G. Duffy, Jr.	E. P. Wigner, L. Stilard, R. P. Christy, F. L. Priedman	G. Petton, Jr.	W. R. Grines	3. Eopelman, R. S. Holden	N. E. Huston, R. G. Hoff, C. W. Wheelock	C. R. Breden, A. B. Schultz	R. A. Moland, D. P. College	No de Sternand de de Constant
Specific Rest Indicator Materogeneous Reclear Reactor Employing Small Uncled Bodies of Fissionable Material as Fuel	Neutronic Beactor Burial Assembly	Fabrication of Tube Type Fuel Element for Muclear Reactors	Fuel Element for Muclear Esactors	Broaching and Tube-Installing Apparatus	Puel Element for Noclear Reactors	Means for Visualising Fluid Plov Patterns P. S.	Super-Regenerative Radio Rangiag Device	Modified Ball and Socket Coupling	Salt Conversion Process	Overall Control System for High Flux Pile	Mondeatructive Eddy Current Testing	Seutronic Reactor Structure	Puel Element for Nuclear Reactor	Massive Loskage Irradistor	Excentric Bolling of Powder and Bonding Agent Into Spherical Pellets	Purification of Fluoride Salts	Electrolytic Process for Producing Metals	Method and Apparetus for Reactor Safety Control	Fuel Element	Bonding Aluminum Netc's	
2,983,145	2,983,659	2,983,660	2,983,663	2,583,989	2,984,613	2,984,744	2,984,833	2,984,995	2,985,505	2,985,574	2,985,824	2,986,508	2,986,509	2,986,510	2,986,772	2,987,375	2,987,454	2,987,455	2,987,458	2,987,816	

			4 000 179	Third Of seconds for the face December	A Blainey II I and
2,990,351	Muclest Rescior Element	A. C. Senz, C. B. Scully	4,3774,114	their presents for Burnest Occurrence	aform of formary or
2,990,352	Metal Sheathed Bodies	H. M. Finniston, L. H. Wyatt,	2,992,175	Meutronic Reactor Shielding	L. J. Borst
2,990,353	Nuclear Reactor Control System	i die	2,992,178	High Strength Control Rods for Neutronic Reserves	S. Lustman, S. F. Losco, I. Cohen
2,990,354	Nuclear Pission Chain Reacting System	H. L. Anderson, H. S. Brown	2.947.176	Past Riesent for Mucleur Beartons	C. N. Bannett
2,990,355	Means for Controlling Resctions	L. W. Nordheim, E. P. Wigner	2 667 346	The Technica Manual for Process for	C. F. Soud. R. P. Passall.
2,990,356	Control Rod Drive	R. A. Chapellier, I. Rogers		Plutonium Separation	M. D. Taylor
2,990,357	Method and Apparatus for Controlling Neutron Density	E. P. Wigner, G. J. Young	2,992,700	Electrostatic Air Cleaning Device and Method	L. Silverman, D. M. Anderson
2,990,358	Control Means for Reactor	J. H. Manley	2,992,886	Method for Dissolving Lirconium-	T. A. Gens
2,990,359	Fuel Element Support	W. L. Symm	7 907 587	Tanchino of Brandom Ores Bales Albalten	A. Thomass R. A. Sroom.
2,990,360	Seutronic Reactor Control Rod and Method of Febrication	S. W. Porembka, Jr.		Carbonates and Bicarbonates at Atmos- pheric Pressure	
2,990,476	Radiation Source	J. D. Cov	2,992,888	Process of Treating or Forming an Translable Plantacian Presidents in the	J. H. Balthis
2,991,112	Self-Centering Positive Locking Grappel	C. G. Bopper		Presence of an Organic Surface Active Azent	
2,991,150	Purification of Plutonium Using a Cerlum Precipitate as a Carrier for Pission Products	S. F. Faris, C. M. Olson	2,992,889	Method for Separating Plutonium and Plasion Products Employing an Oxide as a Carrier for Pisaton Products	T. H. Davies
2,991,192	Process of Costing Graphite with Niobium-Titanium Carbide	F. A. Salden, W. D. Smiley, F. M. Bruz	2,952,915	Pyrometallurgical Method	P. A. Nelson
2,991,236	Separating Liquid Moderator from a Slurry Type Reactor	E. C. Vernon	2,992,981	Neutronic Reactor Core	W. S. Thomson, A. Corbin, Jr.
2,991,237	Thorium Dispersion in Bismuth	J. S. Bryner	2,392,362	Complet rest-Instmal rower aresest Resertor	g. Avery
2,991,238	Pinched Plasma Reactor	J. A. Phillips, B. R. Suydam, J. L. Tuck	2,993,786	Hot Pressing to Form Canned Uranium Slugs	S. B. Boboff, W. E. Kingston
2,991,601	Process of Forming Powdered Material	J. Glatter, S. E. Schaner, T. J. Burke	2,993,850	Fast Neutron Reactor	E. Soodik, E. P. Wigner
2,991,905	Que Seal	H. Monson, E. Butter	2,993,851	High Temperature and Neutron Producing System	G. P. Thonson, M. Slackman
2,991,980	Heat Transfer Means	A. P. Frass, G. F. Wislicenss	2,993,852	Neutronic Resctor	R. F. Chefsty
2,992,048	Tool Assembly with Bi-Directional Bearing	G. E. Longburst	2,994,019	Integral Positioning and Indicating Device	C. E. Frantz, W. E. Cavley, R. F. Warnick
2,992,066	Preparation of Plutonium Inifluoride	L. L. Burger, W. S. Roaks	2,994,038	Electrical Load anticipator and Becorder	J. B. Russell, R. J. Thomas
2,992,067	Dissolution of Sirconium a. L. Liloys Thereof	J. L. Swanson	2,994,072	Photoelectric Control for Tape Position- ing	J. W. Woody, Jr.

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F. R. Bell, R. J. Mackin, Jr., A. Sison	E. M. Little, D. B. Thomson, V. Josephsou, F. R. Scott	L. S. Kina	W. R. Baker, O. A. Anderson, H. P. Purth	S. D. Stoddard, W. T. Barper	D. F. Wilkes	J. V. Werne	C. W. Wheelock, R. D. Baumedater	K. Treshov	R. J. Teitel	J. J. Benry	J. M. Soberts	B. M. Tolbert, H. R. Kirk, E. M. Baker	G. T. Seaborg		A. C. Fahl		F. E. Spedding, E. A. Wilhelm, W. E. Keller	R. A. Dandl	W. V. Coeddel, M. T. Simmel	Q. A. Kerns	D. L. Bolcomb	N. G. Bounen, E. Erikorian	J. M. Caffrey, 3r.
Nethod of Initiating and Sustaining an Entravité Flamma for Neutron Production	Gas Ionizing and Compressing Device	Neutronic Resetor Core Instrument.	Plasma Generator Device	Method of Graphite Preparation	Acceleration Integrating Means	Electrical Load Anticipator and Recorder	Suclear Reactor Puel Element	Suclear Reactor	Control Means for a Muclear Reactor	Linear Count-Rate Meter	Differential Pault Sensing Circuit	Mathod and Apparatus for Matabolic Assay	Compounds and Composition Containing	**************************************	Transurante Element, Composition Thereof, A. C. Wahl and Methods for Producing, Separating	and Purifying Same	Production of Metals	Direct Coupled Amplifier for Small Currents	Method of Making Metal Bonded Carbon	Noticel Transcribing Oscilloscope	Single-Crystal Meutron Spectrometer	Nothod of Forming Tentalum Silicides on Tantalum Surfaces	Catalytic Couversion of Organic Compounds J. M. Caffrey, Jr. Using Penetrating Radiation
2,997,431	2,997,436	2,997,587	2,997,641	2,997,744	2,997,683	2,998,917	2,999,058	2,999,059	2,999,060	2,999,168	2,999,187	3,000,377	3,000,695	2 000 600	2, ww, 697		3,000,726	3,001,144	3,001,238	3,001,847	3,002,095	3,002,852	3,002,910
G. W. K. Pord, L. M. Mystt, O. S. Plail	L. Silvernan	A. C. Wahl	R. L. Stetis	J. W. Frazer, R. T. Bolzmann		L. 2. Zumwalt	M. Petrick	J. W. Gratian, A. C. Gratian	J. W. Robinson, L. D. Bubans	D. E. Epshland, Jr., J. E. Willard				D. C. Soriton	E. L. Butto	J. G. Barrick, J. P. Manion	J. Welkoff	B. E. Schaner	M. T. Simsed	G. T. Sasborg	J. A. McCarm. P. W. Jones		
Apparatus for Sheething Rods	Nethod of Removing Indias from Gases and L. Silvorman Filter Medium Therefor	Dissolution of a Cerium-Type Plutonium- Containing Fluoride Carrier	Preparation of Pure Metals from their Compounds	Method for Producing Diborom Tetra-	chioride	Fuel Element Construction	Chimney for Bol'ing Water Resctor	Adjustable Double Pulse Generator	Method of Applying Metallic Costings	Nothed for Dissolving Lanthaum Fluoride Carrier for Piutonium	Method for Treating Graphite Product	7	Isobutyl Katone Acetophenome or Methone	Ultrasonic Flaw Detection Method	Remotely Operated Manipulator	Precipitation of Plotonous Peroxide	Process of Recovering Alkali Metals	Pissile Naterial and Puel Elements for Newtronic Reactors	Puel Element Construction	Extraction of Tetravalent Flutonium Values from Aqueous Acid Solutions by 2(3-Sthylbutony) Ethanol		duction of Lithium	
2,994,423	2,994,577	2,994,579	2,994,650	2,994,652	* 264 444	2,994,656	2,994,657	2,994,837	2,994,951	2,995,419	2,995,471	2,995,588	-	2,995,925	2,996,330	2, 996, 352	2,996,375	2,996,443	2,996,444	2,996,526	2,996,662	2,997,289	

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R. A. Dendl	A. Hemsendinger, P. J. Holmer		N. V. Real's	W. E. Quinn, E. M. Little, K. Boyer, J. L. Tuck, W. G. Elmorn	B. T. Allemann, B. M. Johnson, Jr.	G. H. Schippereit, R. H. Lang	R. N. Johnson, Jr., C. B. Barton	W. A. Brookstank, Jr.,	J. E. Strain, H. M. Rendon, Jr.	R. J. Beaver	T. P. Erlann	J. B. Adams, J. C. Brusse, L. H. Perris, C. D. Scott	D. H. Denmison	A. P. Press, C. E. Mills	C. E. Bassett	J. G. Burr, J. D. Strong	W. C. Rossch, R. C. McCall	P. Fortescoe, L. E. Lumwalt	S. Jefferson, J. P. Cemeron	G. E. Benedict, W. L. Lyon	C. O. Coffee	L. J. Eoch, R. E. Rice, Jr.,
Ion Cun	Proctaton Integrator for Minute Electric A. Hemsendinger, P. J. Holner	The state of the s	Apparatus for Couries of high passing)	Neutron Source Deing Magnetic Compression W. E. Quimn, E. M. Little, K. of Flasma Boyer, J. L. Tuck, W. G. Elmore	Processing of Radiosctive Waste	Process for Making Neutron Absorbing Bodies	Processine of Radiosciive Gaste	Absorption Analyzer		Sirconium-Cladding of Thorium	Separation of Transurante Elements from Rare Earth Compounds	Continuous Process for Preparing Uranium Resailuoride from Uranium Tetrafluoride and Oxygen	Tttrium Decontamination	Heutronic Beactor	Fivel Element for Suclear Resottors	Method of Stabilizing Polyphenyl Coolents J. G. Burr, J. D. Strong	Hathod for Heasuring Radiation.	Poel Element	Method and Apparatus for the Detection of Leaks in Pipe Lines	Separation of Uranium and Plutonium	Oxides Surface Trestment of Molybdenum Metal	Muclear Reactors
3,005,931	3,005,950	2 000 000	3,400,500 pc	3,006,835	3,006,859	3,008,884	3.008.906	3,009,062		3,009,242	3,009,767	3,009,768	3,009,807	3,009,866	3,009,869	3,009,881	3,010,021	3,010,889	3,011,054	3,011,865	3,011,923	3,011,962
J. W. Sutherland, A. O. Alles	L. Spitzer, Jr.	R. N. Feinstein	T. B. Correy	R. F. Post	C. d'A Bant, D. K. Banson	W. O. Monson, R. A. Jaress		R. J. Spinred	E. R. Toylor, C. H. Mahoney,		G. T. Seaborg	R. W. Stoughton		A. S. Wilson	S. J. Einsbav		R. O. Bolt		F. Denfels	J. Marshall, Jr.	K. Boyer, J. E. Hammel, C. L. Longmire, D. E. Hagle, P. L. Ribe, J. L. Tuck	c F. B. chorks. J. R. Rose.
Radiolysis of Organic Compounds	Baactors	Purification of Ether	Welding Torch	Apparatus for Minimizing Energy Losses from Magnetically Confined Volumes of	Not Pleama Rectified Absorption Method for the	Separation of Eydrogen Isotopes Marked and Annaratus for Effective	Thermal Bonds	Core Saturation Blocking Oscillator	Apparatus for Bon-Destructive Inseption		Method of Separating Neptunium from Plutonium in Aqueous Inorganic Solution	Process for Separating Flutonium (IV) Values from Uranium and Fission Product Values, e.g. ifrconium and Columbium, Utilising a Lanthaman Chalate Carrier	Frecipitate	Mathod of Dissolving Flutonium Dioxide in Nitric Acid Using Cerium Ions	Separation of Technetium from Aqueous	Solutions by Coprecipitation with Magnetite	Method of Opposing Irradiation-Induced	Wiscosity Increase in Employment of Organic Fluids	Meutrosic Reactor Structure	Density Control in a Reactor	Sotating Plansa Device	Mashed of Baine and Manufacturine Plantic F
3.002.911		3,003,002	3,003,050	3,003,080	3,006,628			3,005,158	3,005,334		3,005,680	3,005,681		3,005,682	3,005,683		3,005,760		3,005,764	3,005,765	3,005,767	3.005.794

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L. Silverman J. B. Vetrano E. H. Layer, Jr., C. S. Peet	J. J. Happell, G. H. Thomas, R. P. Demiss, J. L. Bonts, Jr. F. Bowilseque, B. F. Uccker, E. F. Groh	R. L. Chase	D. J. Stevens E. C. Goett, J. F. Lindberg G. E. Murthy, J. E. Campbell, Jr., E. B. Masuroveky, L. F. Echondson	W. G. Whitternan H. G. Whitternan H. L. Butts	E. F. Babelay W. L. Briscos W. R. Baber, A. Bratemahl, A. B. Emskel	C. S. Movember, F. Schuts T. R. Fleids, M. M. Issac H. L. Brendt R. G. Domally, R. G. Cilliland, G. M. Sleughter A. J. Ulrich, J. W. Butler, A. J. Batch
Nothod of Namoving Radioactive lodine L. Silverman from Gases Nethod of Naking Delta Zirronium Mydride J. B. Vetrano Monolithic Moderator Places Method of Forming a Puel Element for a E. H. Layer,	Experimental Liquid Metal Fuel Reactor Spring Driven Actuating Mechanism for Nuclear Reactor Control	Process for Producing Alkyl Arthophos- phoric Acid Extractants Amplitude Districtantor Esving Separate Priggering and Recovery Controls Utili- lating Automatic Triggering Control Disabiling Clamp	Connector Vehicle for Slave Robot Frocess for Removel of Radiomulides from Wilk	Method of Joining Carbides to Base Metals H. H. Erikorian, J. D. Parr, W. G. Whitterman Glove Box Attachment H. L. Butts	Flexible Coupling Digital Q Mater Please Seating and Confining Device	Flowmeter Separation of Curium and Americian Beconditioning Fuel Elements Bresting Alloys Radio Frequency Plasma Containing Devices
3,018,159	3,018,239	3,013,336	3,018,980	3,020,632	3,020,736 3,020,750 3,021,272	3,021,708 3,022,134 3,022,160 3,022,162 3,022,236
M. L. Hanson, C. D. Tabor, Jr. D. J. Higs R. J. Sandrock B. P. Levey, Jr., A. H. Fowler	P. L. Horn R. M. Kolerud, L. Spitzeer, Jr. E. L. Cerrier, Jr., J. H. Hickles	C. W. Eshlman, Jr. G. Lang G. P. Pan.er, J. L. Zegger J. W. Fraser	J. Rosinski K. W. Ehlers, P. Voelber		E. C. Hartwig, D. S. Camings, R. F. Post L. Spitzer, Jr. S. A. Colgate, M. Eruskal M. Bonneshirsh, T. Post	P. Manett irrichan A. Eirsten L. Ann S. Erns, J. E. E. Ericories
Automatic Mass Spectromater Directional Corplers Gripping Tool Mathod for Sensing Degress of Fluidi- sation in Fluidized Bod	Dissolution of Zirconius-Containing Puel Elements Eigh Temperatures Reactor Redistion Facility for Suclear Reactors	Separation of Scandium Values from Iron Values by Solvent Extraction Method of Chemical Decontamination of Stainless Steel Nuclear Facilities Process for Separating Asso-tropic Mixtures by Extractive and Convective	Distillation Emoval of Pission Products from Water Ion Bocket Engine	Personal Radiation Monitor Apparatus for Beating a Flassa	Pyratron with Tresalational Closure Fields Beactor Controlled Suclear Pusion Beactor	Resonator Particle Separator Mass Spectromatry Phase Differential Indicating Circuit Removal of Cestem by Sorption from Aqueous Solutions Mathod for Coating Graphics with Nichium Carbids
3,012,139 3,012,210 3,012,811 3,012,848	3,012,849 3,012,955	3,013,659	3,013,978	3,015,031	3,015,748	3,016,458 3,016,439 3,016,435 3,017,242

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R. E. More	A. S. Coffinberry	W. J. Wash	S. Datermyer	W. P. Anderson, T. T.	Snimeraki, D. R. Tellelson, A. M. Stelle	W. R. Baker, A. Bratenshl, H. P. Purth	W. B. Silker	W. R. Siamons, L. J. Koch	A. M. Arkelyen, C. L. Bickerd	J. E. Hagner, R. S. Long.	D. A. Ellis, R. R. Grinstead	W. L. Lyon	R. J. Beaver, C. F. Leitten, Jr.	S. D. Rander	J. S. Luce		E. S. Dike, D. W. Lier, A. E. Schoffeld, J. L. Tuck	W. P. Swenton	R. C. Vogel, W. A. Bodger	A. W. Searey, D. J. Meachi	A. J. Oliver	P. Bertess, H. J. Buttran	B. W. Johnson, C. C. Wright	W. V. Goeddel, M. T. Simned	
Flutonium Recovery from Seutron- Somberded Uranium Puel	Reactor Puel Scavenging Haans	Process for Controlling Animal Growth Rate	Beiling Resctors	Nuclear Reactor Puel Element		Plans Device	Removal of Radioactive Ions from Waters	Sodium-Water Rest Exchange	Valve	Preparation of High Purity UP,		Uranium Separation Process	Heutronic Reactor Control Element	Nothod and Apparatus for Measuring Radiation	Method and Apparatus for Trapping Ions	IN a reguetic franc	High Woltage, High Current Spark Gap Switch	Pluid Purifier and Sealing Valve	Uranium Recovery from Nuclear Fuel	Aluminam Production Method	Pine Grain Suclear Emulsion	Graphite Impregnation Nethod	Method and Apparatus for Determining Analgem Decomposition Rate	Mathod of Making Puel Bodie:	
3,029,130	3,029,142	3,029,184	3,029,197	3,029,198		3,029,199	3,029,200	3,027,796	3,029,842	3,030,175		3,030,176	3,030,294	3,630,510	3,030,543		3,000,547	3,031,174	3,031,261	3,031,294	3,031,304	3,031,342	3,031,385	3,001,389	
C. R. Beseett	B. E. Ellis	W. S. Cavley, C. E. Prents	R. J. Allen, H. G. Petrow	J. P. McBrids	L. Burris, Jr., A. Schneider	J. W. Anderson, F. Hiley, W. C. Pritchard	E. T. Booth, S. A. Jacobsohn, R. B. Fontius, C. B. Slade	M. S. McLein, N. V. Roberts		R. C. Bouard, J. E. Bohros	H. P. Purth, E. S. Charbers	N. Milleran	J. B. Buff	P. C. Gilbert		E. Medal	J. D. Gow, R. W. Leyman	E. Wolff	W. T. Purgerson, G. Samels, Jr.		E. A. Prigerio	M. T. Simmed	J. E. Mahlmeister	T. K. tyun	
Nucles: Reactor Puel Element	Maitiple Electron Seam Ion Pump and Source	r for Tool and Cable	Production of Uranium Tetrafluoride	Hethod of Combining Rydrogen and Oxygen	Reprocessing Urantum Dioxide Puels	Coated Hold for Casting Plutonium	Condensation Can	Electrolytic Separation Process and	Apparatus	Puel Element	Plasma Energization	Apparatus for Vacuum Deposition of Matals N. Milleran	Separation Apparatus	Discusion Stabilized Fixed Photographic Type Englaton and a Method for Producing	1	Shockproof Magnetic Reed Switch	Ion Magnetron	Switching Tremsmitter Positioning of Swehros	Assarabus for Descoving Sydrodynamic	Conditions Within a Conduit	Metal Phthalocysoloss	Method for Forming a Costing of Molyb- denum Carbide on a Carbon Body	Shelear Reactor Puel Element with American American Transfer Characteristics	Heatron Detector	
1,022,240	3,022,933	3,023,040	3,023,078	3,023,085	3,023,097	\$11,023,119	3,024,009	3,024,172		3,024,181	3,024,182	3,024,965	3,025,143	3,025,162		3,025,371	3,025,429	3,025,442	1.007.163		3,027,391	3,028,256	3,028,329	3,028,517	

E. E. Erickson	F. H. Spedding, T. A. Butler	R. J. Holl, R. W. Klecker, C. B. Grahm			E. E. McDorkle, A. I.	Schulling, O. C. Dean	M. Treshow	G. W. Lees, S. D. McCornick	T. H. Batzer, J. F. Ryan, D. S. Camelngs	W. A. 709	W. E. Clifford	N. C. Christofilos		N. Milleron	J. E. Robb	J. K. Googia	J. F. Gregory, Jr. R. P. Lovey, Jr.	J. L. Deck		E. F. Johnson	E. C. Crests	W. R. Beker, J. P. E. Vatteau	R. C. Gilliland, P. Patriarca, G. M. Slaunhter, L. C. Williams
Continuous Treatment Apparatus	Decomination of Wraniam	Notlear Superheater for Soiling Mater Reactor	Reactor Eaving Nex-DO, Sturry Estically	Positioned in a Graphite Moderator Method of Preparing Utanium Pentafluoride W. E. mobbs	Preparation of Eigh-Density, Compact- ible Thorium Oxide Perticles		Reflector Control of a Boiling Water Reactor	Tripping Circuit	Past Acting Current Switch	Ultra High Vacuum Valve	Carbyred Oxidation of Uranium in Carbonate Solutions	Method and Apparatus for Injecting and Trapping Electrons in a Magnetic	Field	Mathod for Pumping Gases at Low Vacuum Pressures	Threaded Adaptor for Lugged Pipe Ends	Preparation of UO, for Muclear Reactor Fuel Pellets	Mathod for Preparation of Spherical W.	Method and Apparatus for Producing Seutrons and Other Radiations	Best Transfer and Tritium Producing	System	Jackstaf Body	Cusp-Pinch Davice	Ifrconium-Titanium-Berylli'm Brasing Alloy
3,034,868	3,034,889	3,034,977	3,034,978	3,035,894	3,035,895		3,035,993	3,035,996	3,036,172	3,036,811	3,036,881	3,036,963		3,037,685	3,037,796	3,037,839	3,037,840	3,037,921	3,037,922		3,037,924	3,038,099	3,038,249
A. J. Saur, W. K. McCarty, Jr.	W. M. McCorkia, E. S. Cern	O. A. Anderson	P. Fortescue, D. Bicoll	J. L. Dack	E. L. Von Eschen, P. F. Scheele	D. S. Wiegend	N. B. Botsford	A. Simon		J. T. Stacy, R. A. Saller (Deceased), S. W. Paramble, Jr.	D. W. Riccies, J. R. McSenry, L. L. Ames, Jr.	E. V. Remage	W. J. Ash, J. P. Pozzi	B. P. Peris	W. F. White, R. J. Schluster	J. W. Praner	D. C. Schluderberg, J. W.	P. E. Crover	J. M. Collec	L. D. Stoughton, S. T. Robinson	E. Prisch, C. G. Johnson		
Coupled Disphrage Buclear Reactor Safety A. J. Saur, W. E. McDarty, Jr. Davice	Biological Irradiation Pacility	Stabilized Pinch Machine	Reactor Control	High Energy Caseous Plasma Containment Device	Voltage Regulator	Hydraulic Servo	Explosive Means to Separate Casing Mambers	Destruction of Heutre ! Perticles in a	Device for Producing a High Density Plana	Fuel Element for Neutronic Reactors	Method of Removing Strontium lone	High Pressure Regulator	Water Cooled Ratort Cover	Precipitation of Plutonous Perceids	Erythropoletic Pector	Nethod for the Preparation of Binary Nitrogen-Fluorine Compounds	Solid Cas Suspension Buclear Foal	Control System for Seutronic Reactors	Cable Consector	Discharge Valve for Grammalar Material	Coupling	Separation of Californium from Curium	
3,031,393	3,031,394	3,031,396	3,031,397	3,031,398	3,001,606	3,031,846	3,032,356	3,032,490		3,032,492	3,032,497	3,033,229	3,033,549	3,033,645	3,033,753	3,033,771	3,033,773	3,033,774	3,034,088	3,034,689	3,034,814	3,034,854	

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D. T. Peterson, J. Baxer	G. T. Sesborg, R. A. James	O. A. Anderson	F. B. Litton	J. H. Payne		C. C. Stone, R. A. Noland	D. U. Borgran	F. R. Bruce	7. L. Born		M. J. Steindler	R. M. Powers	C. R. Anderson	N. S. Cherry	R. L. Heestand, M. L. Picklesimer		J. C. Sheppard	R. E. Lowberg L. C. Burkhardt	J. T. Stacy H. A. Saller (deceased)		0. Johnson	P. R. Bell, J. S. Luce
Self-Moderating Pertile Compounds	Methods of Preparation of Element 95	Sheet Plesma Device	High Density Nuclear Fuel Composition	Apparatus for Loading and Unloading		Fuel Container Closure	Dark-Field Illumination System	Solvent Extraction Process for Sepa- rating Uranium and Plutonium from Aqueous Acidic Solutions of Neutron Irradiated Uranium	Protectinium Extraction	Process of Treating Uranium Hexafluoride and Plubowies Borafluoride Mixtures with	Sulfur Tetrafluoride to Separate Same	Production of Uranium Monocarbide	Nuclear Reactor	Multiple Thickness Times Density Gamma Gauge	Brase Bonding of Columbium	Process for Extracting Septunium and	Same Containing Uranyl Mitrate with a Tertiary Amina	Plasma Device Utilizing Self-Trapping of Plasma Current and Magnetic Field	Iron Base Alloys and Articles Made Therefrom	Separation of Thorium from Bare Earth Values on Assessed Acidic Solution by	Solvent Extraction with an Alkyl Phos- phata-Caygen Contdénie, Organic Diluent	Method and Apparatus for Producing Intense Energetic Gas Discharge
3,044,847	3,044,944	3,044,945	3,044,946	6,044,947	1.	3,045,108	3,045,528	3,046,087	3,046,088	3,046,089		3,046,090	3,046,212	3,046,402	3,046,650			3,047,480	3,047,484	3,047,601		*2,920,235
	F. Millaron	W. H. Webb, J. D. Vie	F. W. Manning, S. E. Groothuis, J. H. Lykins, J. R. Mahoney 6	D. N. Papke	C. C. Chang		A. E. FOWLER	P. B. Ogle, Jr.	D. O. Campbell G. I. Cathers	L. R. Zumwalt	D. Krucoff		L. H. Johnston	W. H. Hedley, R. J. Rochrs 6 C. M. Henderson	W. B. Goeddel	R. M. Kiehn, R. E. Peterson, L. D. P. King, E. O. Swickerd, Jr.	R. E. Cable, W. B. Goods, Jr., W. E. Henderson, G. H. Montillon	M. Hyman, Jr.,	J. J. Bauth	T. A. Cens	R. O. Elliott E. A. Gechneidner, Jr.	
Vacuum Sealing Means for Low Vacuum		Separations by Electrodialysis W	Area Radiation Monitor P		Superfest Thermalisation of Plasma C	ensator for a Position	Transducer	Method for the Recovery and Purifica- tion of Gaseous UP ₆ from Gaseous Mixtures and UP ₂ 00 and UP ₂ 00 Products Produced Thereby	Separation of Metal Values from B Nuclear Reactor Polescos	Puel Element	Nuclear Reactor with Powdered Fuel	Electric Initiator with Emploding	Bridge Wire	Flame Denitration and Reduction of Wranium Mirrate to Uranium Dioxide C	Nuclear Fuel Material	Molten Plutonium Fueled Fast Breeder	Fluorine Cell Anode Assembly	Heavy Metal Loaded Plastic Scintillating Compositions	Wibration Compaction	Recovery of Uranium from Ilronalum- Uranium Nuclear Puels	rolled	by Application of High Pressures
3.038.731		3,038,844	3,038,997		3,639,014	3,039,032		3,039,846	3,039,647	3,039,944	3,039,948	3,040,660		3,041,136	3,041,260	3,041,263	3,041,266	3,041,287	3,042,594	3,043,653	3,043,727	

E. A. Essesiring Schemectedy, N.Y. J. Tatlock, Colchett	near Warrington, England J. A. F. Glass Woolton, Liverpool, Eng.	E. L. Currier, Silver Spring, Md. J. H.	J. M. Harrer, Eleburat Il. L. W. Froms, Gles	Ellys, III, V. M. Kolbe Plainfield, III.	W. M. Kaufman, Mont seville, Pa.	F. J. Sparber, Belee, N. Mex.	T. H. Batzer, Livermore, Calif.	J. P. Simon, Glee Elly, III.	M. S. Whatley, Oak Eidge, Tenn. and W. H. Hoods, Oak Eidge, Tenn.	B. J. Crosse, Oak Eidge, Tenn.	J. M. Schmitt, Gak Ridge, Tenn.	S. D. Stoddard, Los Alamos, H. Mex., D. S. Bucholls, Los Alamos,	Cours, Los Alexos, N.	R. E. Moore Kennewick, Wash.	R. H. Moore Emmewick, Weeh.
MENTROSID BEACTORS AND COSTED, MEANS TREMESTOR. SURFOIC STREETINGS.		MICLAUS REACTOR PUEL-SEEDING PUEL	DITECT-CYCLE-BOILING-MAIRE MUCLEAR REACTOR		DIEBCT COUNTED PROCESSIVE STACE PULSE COUNTER APPARATUS	QUICK DISCONNECT ELECTRICAL CONNECTOR	HENCHALL LIQUID COTTORING FORP	APPRANTUS FOR SHEARING TUNCIAR JACKETS	LIQUID CYCLORE COSTEMCTOR	STRIPPING OF URANITH FROM ORGANIC EXTRACLARIES	PROCESS FOR RECOVERING URANITH PROM AQUEOUS PROSPECALC ACID LIQUORS	CASTING SLIPS FOR PAREICATION OF REFRACTORY METAL WAZE		PREPARATION OF ACTIVIDE-ALIMITORN ALLOTS	PREFABATION OF URANIDH-ALINEMENT ALLOYS
3,049,483		3,049,486	3,049,487		3,049,628	3,049,690	3,050,236	3,052,142	3,052,361	3,052,513	3,052,514	3,052,532		3,052,536	3,052,537
CONNECTS TOWN AND TO YOUR LILENSTING TOWN TO YOUR LILENSTING TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	T. G. Branin, Lancaster, Pa.	J. T. Mark and I. B. Gents, Lancaster, Pa.	L. E. Norse, Oak Midge, Temm.	A. G. Thorp, II Pittaburgh, Pa.	L. A. Ohlinger, Los Angeles, Calif.	L. Tonks, Schemactady, M.T.	E. E. Rainey, Encaville, Tenn. and J. G. More.	Cliston, Tenn.	A. A. Joske, Elmburst, Ill., J. J. Barghusen, Jolist, Ill. and N. M. Lewitz, Bellwood, Ill.	R. A. Hilldebrandt, Bellwood, Ill., H. E. Eynen,	Chicago, III. and S. Vogler, Chicago, III.	J. G. Reavis, J. A. Leary and W. J. Mareman, Los Alsmos, W. Mex.	H. C. Vernon, Oak Eidge, Tenn.	C. C. Serrick, Los Alemos, N. Mex.	
PATENTS WHICH MANY ISSUED TO THE COMPUSSION AND WHICH AME ANALYMENT TO THE PUBLIC FOR THE COMPUSSION IN ACCOUNTS THE COMPUSSION	CONTRESSION SEAL AND SEALING CONTRESSION SEAL THE SEAL AND SEALING	BALABLE ULTRA-BICS VACUUM VALVE	CATALYTIC SECONDINATION OF RADIO- LYTIC CASES IN THORITM OXIDE SURELIES	CERCITORN CONTROL ROD JOINT	NEUTRONIC REACTOR NAMINULATING DEVICE	CONTROL MEANS FOR MEUTROFIC I	SOLVENT EXTRACTION PROCESS FOR THE SEPARATION OF URABILIH AND THORIUM	PRODUCTS PRODUCTS PRODUCTS	PROCESS POR DISSOLVIDE RINGS UPAKERN-LIRCONIUM OR ZIDCONIUM-	ACTION FOR SEPARAT-	METAL VALUES	METAD FOR CELAINING FLOTOSTIM METAL FROM ITS TRICHLORIDS	NETTED OF OPERATING A BEAVY SALTER HODERATED SEACTOR	NOS-CORROSTVE REACTOR FVEL.	
	3,036,674	3,063,323	3,048,474	3,048,532	3,048,533	3,048,534	3,049,400		3,049,401	3,049,402		3,069,423	3,049,480	3,049,481	

L. Marshall, Bellport, H.Y.	J. T. Mattingly, Denville, Calif.	W. E. Saker, Orinda, Calif. and A. Eartwig, Richmond, Calif.	E. H. Moore, Remewick, Wash.	H. J. Bellarts, Eichland, Wash.	H. P. Colbert, Paducah, Ny.	T. H. Fox, T. Richey, and C. R. Wieders.	Lynchburg, Va.	A. S. Coffinberry and J. T. Waber, Los Alamos, E. Mex.	J. Sherman, Pittsburgh, Pe., J. E. Sherburgh, West Miffilm, Pe., W. L. Fruth, Cenonsburg, Ps., H. J.	Palladino, Contre County, Pa., and P. G. De Haff, Wethel Park, Pa.	R. H. Shannon, W. Chestor, Ps. and H. E. Williamson,	San Jose, Calif. J. Elcol, Westford, Mass. W. Preason, Wayland, Mass.	J. A. Kaserman, Enoxville, Tenn. and R. B. Oliver, Kingston, Tenn.	G. M. Reinhart, Essilton, Ohio, and T. J. Collopy, Clacioneti, Ohio	V. R. Grimes, Kingston, Tenn., J. E. Shaffer and G. M. Watson, Oak Hidge Tenn.
MASS SEPARATION OF RICH ENERGY PARTICLES	NEWTHON SKITLDING STRUCTURE	ELECTRICAL OIL STENCTURE	PROCESS OF URANIUM METAL COSTAIN- INC PUEL ALEMENTS	CRIPPER DEVICE FOR TOPES	BELLIFIE SHAFT TOOL HEAD	WAT EXCEASES		NOW-CORNOSIVE FLUTORIDM FUEL STSTEMS	NDCLEAR REACTOR		CONTROL MEANS FOR A BOILING MATER NUCLEAR BEACTOR POWER	STEAMSPORGER APPARATES	STRIEM FOR ULTRASONIC INSPECTION OF TUBULAR CALECTS	CONTINUES PRECIPITATION METHOD FOR CONVERSION OF URANTL WITHAUT TO URANIEM TETRAPLOCATES	PREPARATION OF REPRACTIONS OXIDE CRESTALS
3,056,023	3,056,028	3,056,071	3,057,717	3,059,303	3,059,688	3,059,908		3,060,108	3,060,111		3,061,533	3,063,005	3,063,290	3,063,792	3,063,794
R. D. Piper, Des Peres, No.	E. P.Wigner, Chicago, III., L. A. Chiinger,	Chicago, III., and Galo J. Young, Chicago III.	E. W. Herold, Atherton, Calif.	F. L. Johns, F. C. Gronomeyer, and M. R. Dushabek, Los Angeles,	E. H. Graham, Los Altos.	calif.	H. F. Fost, Walnut Creek, Calif.	A. M. Sishay, Chicago, III.	W. M. Keufman Monroeville, Fa. T. A. Jeeves, Fonn Hills Township, Fs.	P. S. Archibeld Pleasanton, Calif.	M. T. Burra, Chicago, Ill.	W. H. Jones, West Chester, Obio and J. E. Reece, Glendale, Ohio	M. E. Craham, Bouston, Texas	A. S. Melmed, Flushing, N.T., R. Laupheimer, Westbury, N.T., and R. T. Sheviln, Flushing,	B. O. Kippenham, Castro Valley, Calif.
METHOD OF PRODOCING URANITH NETAL BY PLACEBOLYSIS	METHOD AND APPARATES FOR CONDUCTING A HOCLEAR CHAIN REACTION		PREQUENCY CONTROL OF BF HEATERS OF GASEOUS FLASMA	MICLEAR FLASH STEAM CONTRATION	sarrans consent santus	MACHINE CONTRACT DESCRIPTION	STELLARATOR INTECTOR	GLASS COMPOSITION AND PROCESS OF MAKING	SIECTRICAL PULSE COUNTER APPARATUS	METHOD FOR SOLVENT-ISOSTATIC FRESSING	IDENTIFICATION MAGE DETACHALE	APPARATUS FOR ELECTRON BEAM HEATING CONTROL.	ELECTRON DISCHARGE DEVICE	DIOCS STEERED PACHETEC-CORE NEMCHE	ELECTROSTERCTION WALVE
3,052,611	3,052,613		3,052,614	3,052,615	3 040 414	3, 43¢, 5¢9	3,052,617	3,052,637	3,052,801	3,054,147	3,054,201	3,054,896	3,054,926	3,054,989	3,055,631

	L. S. borst, Oak Eidige, Team.	J. H. Erwin, Concord, Tenn.	W. E. Cawley, Richland, Wash.	E. L. Curries, Silver Spring, Nd., J. R. Mickles, Eystraville, Nd., and C. A. Coombs, Wash.	T. S. Correy, Richland, Mach.	J. O. Davis, C. C. Fogel and W. E. Palmer, Earrison, Ohio	C. P. Cabell, Bichland, Wash.	S. E. Schaner, Bethel, Ps. and R. A. Wolfe, West Mifflin, Ps.	P. Demiels, Madison, Wis.	R. F. Post, Walnut Creek, Calif. and F. H. Coenagen, Pleasanton, Calif.	H. C. McDonald, Livermore, Calif.	P. V. C. Bough, Am Arbor, Mich.	J. W. Frazer, Livermore, Calif.	G. D. White, Joliet, Ill. and D. C. O'Bourke, Worth, Ill.	W. J. Hurford, Mt. Lebenom, Pa., R. B. Gordon, Los Angeles, Califf. and W. A. Johnson, Pepper Pika	Village, Chio E. P. Wigner, Princeton H. J.	
,	PROCESS FOR COOLING A WOLLKAR WEACTOR	MECHANICALLY-JOINED FIATS-TIPS ALINCHIN-CIAD FUEL ELEMENT	METHOD AND APPARATUS FOR CONTROL OF A STOCLEAR REACTOR	NOTION AND MEANS FOR SUPPORTING REACTOR FUEL CONTAINERS IN AN ASSEMBLY	NETHER OF CHIADRING AN INPROVED NET, D IN TREAT AND AND DESCRIPTIONS	METROD OF DESTURATIONS USANIUM INTRAFLUORIDE	TREADLATICS NETHES AND APPARATES	PURL ELEGENT FOR NEUTRONIC REACTORS	NEUTRONIC RZACTORS	APPARATUS FOR THE DENSIFICATION AND EMPRESZATION OF CRARCED PARTICLES	PULSE MATE DIVIDER	METHOD AND MEANS FOR RECOGNIZING COMPLEX PATTERNS	NETHOD OF MAKING TONOSTEN PILAMENTS	METHOD OF MAKENG SPECKICAL. ACTIVIDE CARSIDE	COMPOSITE FUEL ELDRONT	METTEORIC REACTOR	
	3,068,159	3,068,160	3,068,161	3,068,163	3,066,352	3,069,228	3,069,337	3,069,338	3,069,341	3,069,344	3,069,628	3,069,654	3,069,854	3,670,420	3,070527	3,670,529	
	J. G. Reavis, J. A. Leary and W. J. Mermann, Los Alamos, N. Max.	A. Z. Martin, Downers	Clarendon Hills, Il., L. Burris, Naperville, Ill.,	I. O. Winsch, Downers Grove, III., and H. M. Feder, Park Forest, III.	S. W. Mayer, Canoga Park, Calif.	R. E. Elanco and I. R. Higgins, Oak Eidge, Tenn.	P. Patriarca, Enerville,	Osk Eidge, Tenn.	E. T. Coffmen, Richland, Wash.	W. G. Brussalis and G. E. Bost, Pittsburgh, Pa.	J. Kittel, Naperville, Ill. and J. F. Schumar, San Diego, Calif.	J. J. Rauth and R. J. Anicetti, Eichland, Wash.	R. W. Pitzen and W. R. Comley, Etchland, Wash.	W. J. Poppelham Champaign, III.	D. E. Brans and W. F. Camins, Livermore, Calif.	W. L. Sailor, East Patchogue, M.T. and R. W. Aichroth, Islip, M.Y.	A. J. Dernell, Altadems, Calif. W. A. McCollum, N. Bollywood, Calif. and C. J. Meechen, Rosada, Calif.
N	METAL AND ALLOTS OF FLUTORIDH PROM PLUTONIUM TRICELORIZE	SEPARATIOS OF URAHUM PLOTOSTUM	BONEALDED UTANTUM		PUSED REACTOR PUELS	PRODUCTS OF ALIMENTH PROH PESSION PRODUCTS	METHOD OF DEALTHC		SCHOTS COSTECL PARTITULATOR	DIVERTED CONTROL ROD LOCK-IN DEVICE	PROTECTED STOCKERS PART, ELEMENT	NETSOD OF PREPARING A PUBL ELEMENT FOR A SIGGLEAR REACTOR	WITH TRATION	TON GATHE	PALSE STREAMED BELOTING CARACTOR CHANGED TRANSPERS BY GRATED CHOULT AND DESCRICED BY DELAYED TRANSISTOR CLARP	CUING FOR POLARIZED MEUTBONS	METSOD OF PURIFYING THORIUM
	3,063,629	3,063,530			3,063,923 F	3,065,044 R	3,065,537 N		3,065,864 / R	3,066,763 I	3,067,116 · P	3,067,117 N	3,067,133 W	3,067,339 2	3,067,344	3,067,365 0	3,068,093 · N

H. D. Machber, Surnt Hills, H.Y., S. E. Biggs, P. J. Tariello, and K. O.	George, Schemettady, E.Y. S. J. Paprocki and G. W. Constanton Colombus Obto	M. P. Pinicel, Chicago, Ill.	E. F. Pyen, Lynchburg, Va.	Beights, Bedford, Va. J. H. Ricks, Bedford, Va.	A. Turrevich, Chicago, III.	B. Lustmen, Pittsburgh, Pa.,	E. F. Losco, Whitehall Borough, Pa., H. J. Soyder, Bethel Perk, Pa., R. R.	Eggleston, Whitehall Borough, Pa.	Tis., J. S. Luce, Darville, Calif., and W. L. Stirling, Oak Ridge, Tenn.	C. M. Stover, Albuquerque,	D. E. Hielsen, Livermore,	Calif., J. L. Olsen and W. P. Bennett, Les Vegas, Nov.	C. R. Been, Le Grange, Ill., P. J. Karcack, Esperville,	H. C. Anderson, Oak Ridge,	The same	J. E. Savolalesen, Gak Eidge, Tenn.	E. L. Denegan, Livermore, Calif.	
SELPTING CONTAINERS FOR INDIGACTIVE NATIONAL	MOTERN CHONTON	EPPELESMAL ANDAL WINTERANG	CASEDUS DISPOSAL PEDCESS		MATERIAL OF OPERATING A MATERIAL	ALLOY COSPOSITION FOR NEUTROWING	ELACTOR CONTROL BODS		IN SOUTH WITH STARS CHARAC	RYCHOGETER	NOTE WHIPSTON TO A STATE WHIPSTOCK		ESTRACTORY NOTAL THUS DRAWING	PARTICLE SERVENTION NETHOD		LOW TEMPERATURE PROCESS FOR THE PEROVAL AND REDOVERY OF CHLOCALES AND HITTANES FROM AQUEOUS KITRAIT SOLUTIONS	RADIATION SELECTION CONPOSITION	
136,610,6	3,074,153	3,014,375	3,074,776		3,074,868	3,076,871			Surgary.	3,075,385	3.075.583		3,075,637	3,075,694		3,075,825	3,075,925	
E. S. Natcalfe, Los Angeles Cousty, Calif.	M. Treabow, Del Mar, Calif.	S. I. Spinred, Reperville, Ill., H. A. Sandseler, Chicaco, Ill., and P. H.	Martens, Plainfield, III.	G. W. Elger, Albarry, Oreg., and R. W. Boobel, Cincinnati, Ohio	G. Young, Harchtras, H.Y.	A. L. Linch, Wilmington, Del.	D. O. Kippenham, Castro Valley, Calif.	R. D. Baker, Los Alemos, N. Hex. and S. E. Enyward, Whiteler, Calif.	P. Portescue, Labolla, Calif, C. Rickerd, Solana Beach, Calif, and D. Rose, Sam	Diego, Calif.	P. Fortescue and D. Micoll LaJolla, Calif.	C. Sterr, Pacific Palisades, Calif.	W. B. Jones, Berkeley, Calif. and P. F. McHelters, Oakland, Calif.	E. Fairstein and R. A. Dandl Oak Eldge, Tenm.	W. Arbiter, Tonkers, M.Y.	P. J. Pyle, Sen Diego, Calif. and G. L. Allen, Pacific Beach, Calif.	G. K. Whithen and R. R. Smith Idaho Falls, Idaho	J. L. Richmood, Mismisburg, Chio and C. E. Wells, Farmersville, Ohio
METERNIC SZACTOR POKRA PLANT	PUEL SUBASSEMENT CONSTRUCTION POR RADIAL FLOW IN A SUCLEAR REACTOR	FUEL ASSAY REACTOR		PROCEETION OF BAPPIUM METAL.	MUCLEAR REACTOR	REFERENCE FLUORIDATED CONFOUNDS	COATLAL FILMENT TRAISFORMERS FOR FULSE CIRCUITS	NETHED OF PALLEY ALLOYS OF SECOND BASE STARTH SENIES NETALS	REACTOR STSTEM AND CONTROL.		PUEL ELPENT INTEROCUNG ARRACOUNT	SOCIESAR REACTOR	SEAM SPLITTER	PULSE AMPLIFICA POR ALTERING THE SHAPE OF UNDERSHOOTS	DISPERSION HADENING OF URANITH PETAL	COATED CARGOS "LEMENT FOR USE IN NICLEAR REACTORS AND THE PROCESS OF MACING TES ELEMENT	REACTOR FUEL ELEMENTS TESTENC CONTAINER	KESTRON SOURCE
3,070,530	3,070,537	3,070,538		3,071,459	3,071,527	3,071,628	3,071,1734	3,072,475	3,072,550		3,072,552	3,072,553	3,072,785	3,072,651	3,073,693	3,073,717	3,073,767	3,073,768

B. C. Bawkes, Sem Diego, Calif.	E. W. Dickinson, Van Hoys, Calif.	M. Milleron, Berkeley, Calif.	W. E. Difacto, Mamphis, Tenn.	R. D. Piper, Des Peres, No. and R. F. Lefffeld,	St. Louis, No. R. Balent, Tarrawa, Calif.	W. S. Pappes, Oak Eidge,	A. E. Ogard, J. A. Leary and W. J. Mareman, Los	A. Lamber, B. M. R. Porest, S. T. Zagler, Park Forest, III., and J. S. Darby, wheaton, III.	E. W. Carpenter, Borthridge,	Calif., and P. D. Johnson, Chatsworth, Calif.	M. E. Abdelasts, Reperville, Ill.	C. B. Hills, Packanak Lake, H.J.	G. Gibern, Hayward, Calif., W. C. Jordan, Livermore, Calif. and E. J. Lauer,	7. C. Thousann, V. T. Corkig and P. A. Bavesport, Oxford, England	W. J. Visek, Chicago, III.
COUPLING AGGRANTSH GA	SUPPLIFIED SODION GRAPHITS R. REACTOR SYSTEM	או אוד פונס	PROCESS FOR REDUCING ENGERGES B. CHLOSTERAL LEVELS IN ANDOL. TO ORGANISHS	DOUGLE-BAKED, SELF-CHARMILING R.	NUMERATOR ELEMENTS FOR UNITFORM R. POWER NUCLEAR REACTOR	CONTINUOUS ANALYZER UTILIZING BOIL- W.	AUTTON GEO-	KIOSTON-	CADMIUM PROSPIATE CLASS E.	All I	HIGH CHREENT RADIO PREQUENCY ION M. SOUNCE	IOS SOURCE (R.F. INDOCTION TIPE) C.	CHARGED PARTICLES AND CONFIDENCE V. THE RESULTING PLASMA		METHOD OF SUPPRESSING CASTROIN- W. TESTINAL UNEASE ACTIVITY
3,079,323	3,080,308	3,081,068	3,081,226	3,081,237	3,061,247	3,081,619	3,082,163	3,084,041	3,084,055		3,084,273	3,064,281	3,085,173	3,085,189	3,086,864
R. O. Murdoch (title in Murdoch interest to U.S.) Albemarrone N. Mars and	F. A. Record, Danvers, Mass.	J. R. Maioney, Oak Eidge, Term.	J. L. Pulman, S. Jefferson and R. E. Oven, Abingdon, England	J. T. Mattingly, Danville, Calif.	D. F. Foppard, Oak Ridge, Tenn., E. P. Nordin, Park Porest, III, and G. W. Mason, Clarendon Hills, III.	A. M. Eshays, Bellport, R.T.	N. Milleroo, Serkeley, Calif. and L. L. Levenson, Livermore, Calif.	P. Patriarca, Enoralile, Tenm., C. E. Shabert, Lemoir City, Tenm. and G. M. Slaughter, Oak Ridge, Tenn.	T. 5. Soine, Richland, Wash.	H. R. Measth, Elmhurst, Ill.	R. D. Esyberz, Fowell, Tenn. and M. E. Lloyd, Oak Eddge.	į	R. G. Donailly, G. M. Sleughter, Oak Ridge, Term., and R. G. Gilliland, Enoxyllle, Term.	G. H. Jenke, Oak Ridgo, Tenn., E. M. Shapiro, Springfield Township, Delaware County, Tw., M. Elliott, Bluepoint H.Y.	E. D. Oppenheiner, Memaroneck, E.Y. and E. A. Weisberg,
THERMAL RELAY DEVICE		MEASURATES CONCUER	GAMMA M.Y. THICKNESS GADDES	ROCKET FORT CLUSURE	SEPARATION OF EXPORTED FROM OTHER LANDAMINE RARE EARTHS BY SOLVENT EXTRACTION	HICH TEMPERATURE THEMD-COUPLE	VACUUM TRAP AND VALVE CONSIDERATION	METHOD OF WALTHO A TURE AND PLATE CONSECTION	REUSABLE REACTION VESSEL	COATLAL TURE COUPLING	PROCESS FOR SEPARATING AMERICIAN AND CURIUM FROM RARE EARTH	ELEMENTS	BAZING ALLOTS	PRODUCTION OF TRITION	SOBIUM DEUTERIUM REACTOR
3,076,078		3,076,091	3,076,894	3,077,113	3,077,378	3,077,505	3,077,712	3,078,551	3,079,136	3,079,179	3,079,225		3,609,251	3,079,317	3,079,321

E. I. fretr, Chicago, III.	F. G. Foots, Caicago, III. and E. R. Jetto(decessed) Los Alemos, N. Hex.	F. M. Cats and J. E. Eck Apollo, Fa.	H. R. Ebenig, Botterdam, H.T.	M. Petrick, Joliet, Ill. and J. F. Marcheterra, Maperville, Ill.	R. C. Post, Richardson, Texas	M. Flotkin, Hassepaque Ferk, H.Y., S. C. Enks S. Patchegue, M.Y. and H. S. Carder, Relicert	E.Y. J. B. Hoe, Albaquerque,	R. J. Bearer, Encaville, Tean. and J. H. Cherubiad Oak Eidee, Tean.	J. E. Eittel, Esperville, Ill.	E. E. McGeary and E. Priach, Pittsburgh, Pa.	J. A. Paget, Powery, Calif.	B. C. Enwins, W. Lones, San Diego, Calif. and P. J. Liederbach, Philadelphis, Pt.	J. C. Carter, Elaburet, Ill., R. E. Armstrong, Park Porest, Ill. and M. J. Janicks, Donners Grove, Ill.
METROD OF FAREICKTING A CHAPSITE- MUNERATED MEACTOR	PURE LEMENTS FOR SENTENNIC REACTORS	DISPESSION ILDERST CONSISTING OF CEROTICH COALTS UP, PARTICUES UNICOMEN PARTICUE DA A LIFELLON PARTICUE.	COUPLEMENT OF RICH TEMPERATURE FLASM.	BOILING SUMERY BEACTOR AND NETHOD OF CHUTBOL.	NUCLAR REACTOR	STEEDOTOS BADIO PROGRACT PLASS CONTRAL STSTEM	STATISTO TANSISTOR APPLICA	SELECTIVE SERVENTION OF URANITHE PRICH FERRITIC SERVENTIONS STELLS	DECEMBER OF STANCE CORROSION RESISTANT INCLEAR PURL	METHOD OF MAKEDIC A CORPAREDENTED FORE TELESCOPE FOR A BUCELARE MAKETOR	SAPELT STRING FOR CONTROL, MOD	CONTING, KIND DELTOR MICHAELSH FOR A HOCLEAR REACTOR	HOCIEAR PORTE PLATE.
3,088,890	3, 068, 591	3,088,892	3,088,894	3,088,895	3,088,904	3,089,092	3,089,098	3,089,751	3,089,768	3,089,630	3,089,838	3,089,839	3,089,840
D. ii, Emiton, Cliston, Team, and J. E. Savolaisen, Oak Eidge, Team.	C. E. Moonster and T. B. Estayens, Michiard, Wesh.	E. F. Grob, Esperville, Ill. and D. H. Lemox, Elshurst, Ill.	T. S. Correy, D. E. Delitt and I. V. Helson, Eichland, Wash.	J. J. Berray, Cabland, Califf.	E. F. Levey, Oak Eidgs, Team. and A. E. Smith, South Clinton, Team.	J. A. Stavrolakie, Venis, Ohio and C. M. Honderson, Fittsiurgh, Ps.	W. V. Coeddal, San Diago, Calif. and H. T. Simmed, Labolla, Calif.	D. E. Walber, Park Porest, 111. and S. Herras, Chicago, 111.	M. Treshow, Elasdale, Ill.	D. R. Mirdsall, Livermore, Calif. and R. F. Elley, Edyserd, Calif.	E. L. Chase, Hose Point, H.Y.	R. Johnson, Shoreham, M.Y. F. L. Born, Sayrille, M.Y. and G. Strickland, Nius Point, M.Y.	O. E. Magoteeux Claciamati, Okio
NETHOD OF DISSOLVING REFUNCTORY ALLOTS	ALLOT POR PUEL OF SEUTIONIC REACTORS	AN ASSESSALT OF PARALLEL, PLATES	WELDING AFFARATES	HIGH WOLFACE IN SCHWOODS	PREPARATION OF SPERICAL UNATION DIOXIES PARTICLES	METHOD OF STRITTADES TRANSTON PROXITIES	NETHEND OF PARTIES PURE, BODIES	CONTRACT, NOD	SOLLITS UNITER ERACTOR WITH PEDS WATER LAUNCTION ROCKLES	MAZETTE SEATON PROCESS	MULTIPLIER CIRCUIT	DISSOLUTION OF URASIDA PUELS BY MUID- OR DIFLIONDPROSPERALE	SETALATION OF URANITH METAL. PRINCIPLE SET IL CALE OLE SET CONTRA SET CONTRA PORTICO DI SETTAL.
3,086,926	3,086,930	3,066,935	3,067,045	3,087,056	3,087,781	3,087,876	3,067,877	3,087,879	3,067,681	3,068,200	3,088,671	3,088,800	3,088,623

A. F. Chabrek and R. L. Ramell	Albequerque, H. Nex. R. V. Heldigh, Enerville,	E. C. Codsil, E. T. Ebbinson, Livermore, Calif.	B. V. Einyon and G. D. Melcoun, Oak Eidys, Tenn.	K. C. Doll, Elchlend, Wash.	A. J. Karnie, Eichlend, Weeb.	R. A. Holend, Chicago, Ill. D. E. Uelker, Ferk Forest	Ill. end B. I. Spinred, Esperville, Ill.	L. J. Ballins, C. W. Ejerklund and W. J. Maranan, Los Alczes, M. Hex.	V. J. Nechen, Etnedale, Ill. and J. D. Cabor,	L. Lewis, Bridgeport, Com.	M. Treshow, Del Nar, Calif.	R. Pox, Oskiend, Califf.	J. C. Anderson, Wagara Falls, M.Y.	S. K. sbraken, Chicago, III.	A. P. Frass, Encryille, Term.
ACCELMENTION RESPONSIVE SWITCH	APPARATOS FOR THE PLASS ASSLUSIS	WALALE-THOU CAN	STEAM CENTRATOR	SOLUTIONS BY ADSOLUTION	COVERING A COUR BY ALTHUSION	POIL ELEMENT FOR MICLEAR STACTOR		PARTIEN ELECTRONSPUNDO CELL	FLOORINATION OF OXIDID NOCLEAR FUEL	RESE DEEMST BATE EXTRESSION OF VEAKERN	APPARATUS FOR CONTROL, OF A BOIL- ING ELACTOR ESSPONSITY TO STEAM BERAID	GAUSA, PEOPOSTIONAL COUNTER CON- TAINING SIGN I GAS AND LOW I NODERATOR	PUR. CORPOSITION FOR MICIEAL ERACTORS	TRITION PRODUCTION IN MENTANGE- INSALATION OF ALIMENTOR-LITERIN ALLOT	ESPLECTOR POR REUTRORIC ERACTORS
3,096,411	3,096,438	3,097,543	3,097,630	3,097,920	3,098,022	3,098,025		3,098,028	3,098,709	3,098,807	3,098,812	3,098,944	3,100,163	3,100,184	3,100,187
A. M. Habay, Chicago, Ill.	G. S. Sanks and R. W. Estl, Los Alemos, H. Nex.	W. D. Egnor, Schemectady, M.Y. and G. L. Bowins, Scotla, M.Y.	E. F. Fost, Melmut Creek, Calif. and C. E. Taylor, Livermore, Calif.	E. J. Peters, Senta Susens, Catif.	B. J. Howby, Idaho Falls, Idaho	W. H. Zien, Hinsdale, Ill.	J. R. Binche, Scaredale, H.T.	E. L. Currier, Silver Spring, Md. and J. E. Nickles, Elverdale, Md.	R. F. Post, Walnut Groot, Calif.	J. P. Blewett, Delljort, H.T. and J. D. Elesling, Elver Edge, H.J.	J. E. Nonn, Nesbville, Temn. and A. E. Wainwright, Golden, Colo.	G. Vedmanns, Idaho Palls, Idaho	E. S. Dairymple, Chesterffeld Co., Vs. and W. B. Selson, San Jose, Calif.	W. E. Kingston, Bayside, R.T. S. Ropelann, Flushing, R.T. and E. E. Saumer, New York, H.Y.	E. Halbach, D. Veron, Berkaley, Califf., and U. B. Labor Gorles, Colif
CALPRA RAPIATION DOSACE-MEASTRING CLASSES AND MITHOUS OF USING	PETROD OF REALING RESTALTING	SUPPLE CAR RADALING MICHAELING	CETOGESTIC MACHETS	PATHEOD OF ISLANDACTURE OF METAL. ENCASED COCK INTEREST.	PRICIPITATIOS OF EINCHEIDES PLUMBERS INNS PRINCEIDE INNS PRINCEIDES	PLOW STSTEM FOR EENCTOR	COMPOSITE RESTRUCTED REACTOR	SOCIAL SOCTOR FUEL REBERT	TRAVELING MAYE PTEOTHOR	RESOURTOR PÁRTICLE SERABATOR	AUTOMATIC BARD COUNTER.	ASSERTY	COURSE OF PROTECTION OF ALCHUMAN	MOCLAR REACTOR FULL ELEMENTS AND METHOD OF PREFABATION	COUNTER ROTATING PLASMA DEFICE
3,089,957	3,090,117	3,090,480	3,090,894	3,091,847	3,093,452	3,093,562	3,093,563	3,693,566	3,093,569	3,093,733	3,093,738	3,094,869	3,096,220	3,096,263	3,096,269

	R. H. Engelmann, Castro Valley, Calif.	L. S. Fitte, Styan, Texas	L. L'venson, Livermore, Calif.	E. M. Vander Well, H. T. Rahm, Idaho Falla, Idaho and D. L. Barner, Pocatello, Idaho	W. T. Ross, C. H. Bloomster and R. E. Bardsley, Richland, Mash.	E. P. Wigner, Oak Eldge, Tenn.	L. Srilard, Chicago, Ill.	R. S. Bursey, Last Longmesdow, Mass, and M. J. Cottenha, Hanneley,	Mase.	Calif., J. L. Gisen and W. P. Bernatt, Les Vegas, Nev.	M. Bender, F. E. Bennatt and A. F. Enches,	Frinceton, M.J. J. M. Wilcox, Perkeley, Calif. and W. R. Baker,	Orinds, Calif. E. F. Burch, Eichland, Mash.	M. F. Scoggias, Richland, Wash.	J. J. Dicisos, Silver Spring, Md.	R. E. McCessy and P. E. Winslow, Pittsburgh, Ps.
	ELECTRONIC INTEGRATING CINCUIT	DRIFT CONTROL IN AM ANALYTICAL CANNA BAY SPECTRONETER	DIPPUSION PUMP	A PROCESS OF DISSOLVIDO WELL RIPERTS OF WOCLEAR PLACTORS	METROD OF PREPARING A CENAMIC PUEL ELEMENT	MEDIBORIC REACTION STRICK	BLACTOR	ETURALIC SERVO CONTROL MECHANISM	the section to the course	ASSENSIA	PAST OPENING SWITCH	FLASNA, CEREBATOR	APPARATUS FOR CRIEDING SPERICAL PODIES	MONTHLY CONTROLLED MUST SANTLES	FUEL ELEMENT 1.1 INC. AL ELECTRIS	TUEL ELEMENT FOR A NEUTROWIC MEMOTION
	3,101,406	3,101,409	3,102,678	3,102,849	3,102,850	3,102,851	3,103,475	3,103,853	21.00.1	ani bani'r	3,104,295	3,104,345	3,104,502	3,104,542	3,105,026	3,105,030
THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED	A. P. Frass, Educatile,	J. Miller, Clinton, Tenn.	J. W. Verba and E. A.	J. C. Spenner, Bichland, Mash.	Q. A. Zerna, Orioda, Calif.	G. R. Cox, Bellport, H.T.	R. O. Work, Albuquarque, N. Max.	F. P. Roberts, Elchland, Mash.	B. J. Strum, Cak Bidge, Tenn.	R. F. Post, Malout Greek, Calif.	R. E. McGeary, P. R. Winslow Fittsburgh, Ps.	W. H. Carr, Oak Eldge, Team, and E. R. Dobyns, Coces Beach, Fla.	D. L. Hansford, Bouston, Texas and E. V. Rasbe, Cincinnett, Ohio	B. M. Johnson, Esmewick, Wesh.	E. F. Grob, Reperville,	R. F. Post, Walnut Creek, Calif.
A CONTRACTOR OF THE PARTY OF TH	REACTOR MOREATOR STRUCTURE	ATR CARSON-ARC CUTTING	CONTINUES ROTATION SCATTERING	711	DISPOSED VITTIN THE PIECT THE PULLE STATUSSIZING GENERALTOR	EXCELLIF STAND	PATONET TIPE COUPLING WITH PIWITED SECHENT RELEASE MEANS	ADSORPTION OF CERTIN VALUES FROM AQUEOUS SOLUTIONS	NETHOD FOR PREPARATION OF	MATERIA FOR PEDDOCINES THE DEPORTER RESISTIVITY OF SOUTH	TVEL ELEMENT FOR A SEUTROSIC REACTOR	DIAPENAN PUNCTING SYSTEM	RECOVERY AND SEPARATION OF LITERIEN VALUES PROM SALVAGE SOLUTIONS	SPRAY CALCIDATION REACTOR.	PAÇIDHER POR AN ASSEMBLY OF PLATES	MAGRITIC END CLOSTRES FOR FLASMA. CONFINING AND MEATING DEVICES
	3,100,188	3,100,255	3,100,263	3,100,281	3,100,284	3,100,573	3,100,655	3,100,683	3,100,686	3,100,730	3,100,742	3,101,058	3,101,246	3,101,258	3,101,309	3,101,310

	J. H. Shaffer, M. J. Lally,	Cax Enge, Tenn., J. E. Strain and D. E. Cunec, Kingston, Tenn.	D. F. Peppard, Oak Park, Ill. and G. W. Mason,	Clarendoo Eille, III.	H. G. Richter, Chapel Hill, N.C. and A. S. Gillespie, Durham	S. Giordano, Port Jefferson	N. Ader, Perk Porest, 111.	W. F. White, Lombard, Ill., E. Goldwasser, G. F. Waber Chicago, Ill. and R. Egan Bound Brook, M.J.	J. K. Davidson, Wheaton, Md.	R. W. Been, San Diego, Calif.	R. E. Brocknell, Oak Eldge, Tenn.	T. H. Batzer, Livermore, Calif.	A. E. Smith, Clinton, Tenn. R. J. Schier, Richland,	C. W. Pollock, Eichland,	Wash., and T. R. McKensie, Pasco, Wash.	J. Rosinski, Cicero, III.	Park, III.
STSTEM FOR MEASURING DISTANCE BY THE UTILIZATION OF PILES ECHORS	SEZNEATION OF PROTACTINGM PROM	POSITIONS PARLIUS FUEL CON-	PROCESS FOR SERMATING TITRIUM FROM THE BLAE ELATHS ST SOLVENT STREAM THE BLAE ELATHS ST SOLVENT	evisoring .	PLATINE GENERAL COUNTER	BADIO FREQUENCY ATTEMBATOR	RECOVERT OF ACTIVIDES FROM AQUEOUS HIRIC ACID SOLUTIONS	ETTHEOPOIETIC PACTOR PURIFICATION AND PRODUCT	FUEL ELEMENT FOR A MICLEAR MACTOR	PUEL ELEMENT	NOVEL FLOW DEVICE	WOUN WAYE	OCID PRESSURE VESSEL SEAL METAL ALLOY SUITABLE FOR CONTROL-	ESCENSIATION OF BYDROCAESON SOLU-	IN PROCESSING OF NUCLEAR PUEL	SCAVENCING OF RADIOACTIVE AEROSOGS	
3,110,025	3,110,555.		3,110,556	2 110 011	3,110,633	3,110,872	3,111,374	3,111,458	3,111,475	3,111,477	3,111,963	5,112,093	3,112,115	3,1112,275		3,1113,007	
S. J. Hessa, Harbor, Fla.	K. H. Puschl, Pitcairs, Ps.	S. J. Weess, Earbor, Fla.	C. C. Esst, Eborville, Tenn.	G. A. Porster, Westment, III.	W. F. Slebold, Armold, Nd.	P. G. Flaming, Livermore, Calif.	E. L. Dorrner, Todawands, N.Y. M. Smuts and E. A. Wilbelm, Ames, Iowa	H. H. Sander, M. Cosen, Albuquerque, E. Pirr. and S. C. Elght, South Orange, N.J.	0. H. Loeki, Mchiand,	D. A. Boover, Eichland, Hash.	R. A. Bechasn, H. P. Marner, Liversore, Calif.	S. T. Zegler, Forest Park, Ill.	J. B. Knighton, Joliet, III.	J. M. Coogin, Oak Eidgs, Tenn.	D. R. Wilder, and C. D. Wirkon, Ames, Iowa	C. B. Borris, Medison, Wis.	W. P. White, Lombard, III. and G. W. Weber, Chicago,
CONSTRUCTION OF MOCLEAR PURE, NUMBERIES	PERSONALIZED MATER ANACTOR CORE WITH PLUTONIUM SUBMIT?	CONCESTRIC TUBE FURE REPORT SPRING ALICHDRAT SPACER DEVICE	PEZPARATION OF REPRACTORY OXIDE MICROSPHERS	A POSITIONAL SATA STRIEM	AM ELECTRICAL THEER DIMENSIONAL PUNCTION PROCESSANCE.	HOLDING APPARATUS	NIOBIUM-TANTALUM SERABATION	MAST TIELD SCTER.	PULSED EXTRACTION COLUMN	SELF-BILLASING CRAPPLING BEVILE	PILITER FOR EIGH VELOCITY GAS STERANS	DUCTILE URANITH FUEL FOR MICIENE REACTORS AND NETHEOD OF MAKING	PRODUCTION OF ACTINIDE METAL	SDETRING METHOD	OUTDATION-RESISTANT COATING ON ARTICLES OF TITRIDE METAL	CELLULAR CORE FOR CURYED STRENCES	ENTERDPOINTED PACTOR PREPARATION
3,105,035	3,105,036	3,105,037	3,105,052	3,105,189	3,105,215	3,105,995	3,107,976	3,109,466	3,108,859	3,109,677	3,109,724	3,109,730	3,109,731	3,109,735	3,109,752	3,109,766	3,109,774

	G. H. Demison, R. O. Bolt, San Exfael, Calif., J. W. Kent, El Cerritto, Calif. and F. A. Christlessen, Manhattan Beach, Calif.	G. H. Demison, R. O. Bolt, San Bafael, Calif., J. W.	Kent, El Cerrito, Calif. and T. A. Christiansen, Manhattan Esseh, Calif. J.G. Carrollal Cerrito, Calif.	W. A. Dell, Cak Eidge, Tenn. and W. K. Frater, Enorville, Tenn.	E. 4. Vellees, and A. J. Taylor, Onk Eidge, Tenn.	Nocholis, Los Alamos, H.Mer.	L. S. Hall, Livermore, Calif.	R. R. Smith, M. W. Echo and C. E. Doc, Idaho Palls,	Edaho	Tenn. S. D. Strokfard D. E. Merkells	and R. E. Covan, Les Alexos, H. Mex.	W. C. Goss and L. P. Gilley, Liversore, Calif.	E. S. Orimmett, Idabo Falls, Idabo	R. A. McHoes, and R. A. Potter, Oak Bidge, Temm.	D. H. Imboff, Walnut Greek, Calif. and W. H. Barker, Livermore, Calif.	J. P. Filger, Richland,
4	METHOD OF INSTITUTE IRRADIATION- DENCED VISCOSITY INCREASE OF ORGANIC PUIDS	METHOD OF DRIBITING IRRADIATION-	ORGANIC PLUIDS	DESOVED TON-PRODUCING MECHANISM POR CALUTEONS	PAKEARATION OF HIGH-DENSITY THORILH OXIDE SPHEAES	MCNESSING ONLINE SELF CASTING METHOD	METHOD FOR EXCHANGING ENERGY VITE A PLASM IN MIGHETIC FURT- INC	NETHOD AND APPARATUS FOR EXAMIN- DIG FUEL ELEMENTS FOR LEAKAGE	BELLEVISION SOUTHERNOON SOUTHERN	PROPERTY OF SLIP CASE CALCIA	BOLLCGAARE	HIGH SPEED KERR CELL FRANCISC CANERA	PULSE COLUMN	STABILIZED BARE EARTH OLIDES FOR A CONTROL NOD AND MCTHOD OF PER- FARATION	METHOD OF PRODUCING NEUTRONS	CRIPPING DRVICE FOR CTLIBERICAL
	3,115,462	3,115,467		3,115,575	3,116,106	3,116,135	3,116,209	3,116,211	1116.214	3,116,350		3,116,660	3,116,980	3,117,372	3,117,912	3,118,698
	D. B. Imboff, Waleut Creek, Calif. and W. E. Enrker, Livermore, Calif.	N. S. Rasor and R. L. Efrach, Northridge, Calif.	F. S. Goulding, Lafayette, Calif. and W. L. Ensten, Berkeley, Calif.	J. L. Enlicy, New Orleans, Le. and C. E. Runyam, Albuquerque, H. Mox.	D. J. Stevens, Overland Park, Kans. and G. W. Forman, Lewrence, Esse.	J. A. McCarn, Scotia, H.Y.	P. A. Scott and L. K. Nudge, Richland, Wash.	W. T. Purgerson, Del Har, Calif.	T. C. Quinby, Elagaton, Tean.	W. M. Adams, Livermore, Calif.	H. M. Finniston, Abingdon , England	F. G. Stengel, Bridgeville, Ps.	G. E. Strong, Richland, Wash, and M. L. Faught, Formatick Unit	E. R. Rock, Lynchburg, Va.	J. A. Paget, Possy, Calif., S. L. Ewets, San Diego, Calif., R. S. Stose, Del Ner, Calif., and R. B.	Stewart, Rancho Santa Pe, Calif.
	EAT GREEATION	MUCHEAR REACTOR AND THERE- MICHIC FUEL ELEMENT THEREPOR	CHAND RING SENCICONDOCTOR JUNCTEON	NOME STANILIZING STRUCTURE	VIRALING DAMPING AND SHOCK MOUNT.	SUBCOOLING DETRCTOR	NUTSOD OF PREPARING CHRONIUM PURITIES	WHITE FUEL ELEMENT FOR GAS- COULD ESTIMATED REACTIONS	METROD OF PRIPARING RADIOACTIVE CESTIN SOURCES	MOCLEAR REACTOR APPRAINTS FOR MARIE PERSONNELLON	WEL ELECTRIS FOR HEICEAR REACTORS	NUCLAR MACTOR PUEL ELDIENT ASSEMBLY	נוסכום כושפחוד	COMPOSITE CONTROL NOB	EMELORICE STREET FOR STOLEN. MACTORS	
	3,113,082	3,113,091	3,113,220	3,113,517	3,113,755	3,114,263	3,114,622	3,114,693	3,114,716	3,115,194	3,115,446	3,115,447	3,115,451	3,115,452	3,115,453	

E. Anderko, Frankfurt am Main, H. Richtor, Frankfurt	an, Nain Mederred Cornary and H. Schleicher, Chivasso, Italy A. M. Berris, San Diego,	Calif. and E. Ledin, LaJolla, Calif. E. A. Trickett, San Diego,	Calif. and J. T. Engers, Peterborough, Ontario Canada	L. D. Stoughton, Chatham, N.J., J. M. Blocher and	N. D. Veigel, Columbus, Obio	R. M. Feterson, Woodlands Hills, Caiff., J. E. Mahlmaister, Grenode Hills, Caiff., N. E. Vunghn,	Resects, Calif., W. J. Sanders, Ven Nuys, Calif. and A. C. Williams, Cancer Park, Calif.	W. J. O'Leary, Claysont, Del. and Z. A. Flaher,	S. Glordano, Port Jefferson Station, N.Y.	C. W. Wheelock, Estco,	M. T. Abegg, Walmut Creek, Calif., O. D. Bottler,	Alemeds, Calif., J. D. Deligans, Livermore, Calif.,	and F. S. Micholson, Eaysard, Calif.	H. J. Bellarts, Richland, Mash.	E. Frisch, Fittsburgh, Pa. and T. F. Widser,	Monroeville, Fe.
ELECORIDA ALLOY TREADMENT PROCESS	3,121,045 - CONTROL NOD FOR MICLEAR REACTOR	STESSEA MEISSEAL		CERAMIC COATED FUEL PARTICLES	Cit simply was consist on the	ELACTOR STATE SOUTH UNIVELLE		PROCESS OF MAKING SHAPED PURE. FUR INCLEAR PEACTURES	BON-REPLACTINE LIQUID TERMIN- ATION OF A COALIAL CARE	FOCUSAR REACTOR PUBL ASSENDER	SLECTRICALLY CONDUCTIVE PLOSS COVERING FOR USE IN REPLOSIVE	STATE AND A		A FULL OPERATED TOOL FOR COUFLING THREE TOCKTHER.	LINEAR NOTION DEVICE	
3,121,034	3,121,045	3,121,046		3,121,047	1 121 063			3,121,128	3,121,206	3,121,666	3,121,825			3,121,941	3,122,027	
J. F. Hammond, J. D. Sease, Encaville, Tenn.	C. S. Braestrup, New York, N.Y. and R. T. Moosey, Martedale, N.Y.	W. R. Chamberlain, Walmat Creek, Calif. and H. E. Maseck, Oakland, Calif.	R. C. Smits, Lafayetto, Calif.	I. Toshioks, Westmont, II.	W. W. Schulz, Michland, Mash	C. E. Crouthemal, Glenn Ellya, III. and H. S. Foster, Lockport, III.	D. C. Worlton and C. L. Frederick, Richland, Wash.	P. Chiotti, Ames, Iowa	D. H. Imboff, Walout Creek, Calif. and W. H. Barker, Livermore, Calif.	R. F. Post, Walnut Creek, Calif.	A. J. Estch, Chicago, III.	E. Ledin, LaJolla, Calif.	R. F. Post, Walnut Creek,	W. S. Clark and H. W. Codbes, Oak Eidee, Tenn.		M. T. Abegg, Alboquerque, H. Mex. and R. A. Borwood, San Diego, Calif.
LEGUD PRASE SINTERDIC OF METALLIC CARRIDES	BADIATON NOWITOR CONTAINING TWO CONCENTRE IONIZATION CRAMEZES AND MEANS FOR INSTIA- TING THE SERMATE CHAMBES	CHOCKIC	MELETINE DIFFERENTIAL ROTARY MECHANICAL DRIVE	PREPARATION OF URAHITM MONO- SULPIDE	ALTHURISH CLADBING DISSOLUTION	APPARATUS FOR CONVERTING HEAT INTO ELECTRICITY	ULTRASONIC METHOD OF MEASURING THICKNESS USING LAND WAVES	REGERERATION OF FISSION-PRODUCTS- CONTAINING MACHES TIM-TENETIN ALLOYS	NETGOD OF PRODUCING NEUTROBS	PTROTTON PROCESS AND APPARATUS UTILIZING ENGASCESSINT PRINCIPLE	NETEDD FOR CHIPTINES A DEBSE FLASHA	CONTROL, NO. FOR HUCLEAR REACTORS	NEARS FOR PRODUCING RICH DENSITY PLASMS	SUPPRESSION OF ENTHERNITH WOLA-	CALCIDATION OF EABIOACTIVE WASTE SOLUTION	METHOD OF PORKING METAL PLATES WITH EXPLOSIVES
3,118,786	3,119,036	3,119,238	3,119,537	3,119,653	3,119,658	3,119,723	3,120,120	3,120,435	3,120,470	3,120,476	3,120,477	3,120,480	3,120,481	3,120,493		3,120,627

R. P. Levey, Oak Ridge, Tenn. G. D. Paxson, El Cerrito, Calif.	3. C. Breks, San Diego, Calif. and I. C. Thompson, Bamons, Calif.	S. L. Koutz, San Diego, Calif., W. A. Kalk, Poway,	Calif. and F. B. Mimtz, National City, Calif.	M. R. E. Levis, Kingston, Il- Teca.	J. R. Armstrong, H. Sheimberg and D. W. Schell, Los Alemos,	N. Mex. S. H. Jury, Enexville, Tenn.	W. R. Baker, Orinds, Calif.		H D. A. McCume, Scotia, N.Y. RE- 137	J. Foster, A. M. Perry, Oak Edge, Tenn. and A. P. Frass, Enouville, Tenn.	ON- R. H. Hoore, Kennewick, Wash.	M. Lippmann, Nount Vermon, N.Y.	M. P. Finkel, Chicago, 111.	J. F. Cage, Saratoge, Calif. and D. B. Sherer, Giltoy, Calif.
TEACTIONALING COLUMN PRODUCT COLLECTOR CONTROL	CONTROL ROD DRIVE	CORE REFLECTOR FOR MUCLEAR REACTOR.		METHOD FOR CONVERSION OF CESTUM ALLW TO RADIATION SOUNCE MATERI- AL	CRAPHITE PRODUCTION UTILIZING URANTL NITRATE HEXALICANTE	THE RECOVERY OF URANIUM FROM	PLASSA HEATING AND COSFLEING STSTEM	PURIFICATION PROCESS FOR CRANIDA CARBIDE	PAST MENTRON DOSINGTER FOR BIGH TEMPERATURE OPERATURY BY PEAUTICAL MENT OF THE AMOUNT OF CESTON 137 FORMED FROM A TROSILM WIRE	FUEL LOCATING AND SUSPENDING SYSTEM FOR NEUTRCHIC REACTOR CORE	PLOTOSTON RECOVERY FROM NEUTRON- BOMMARGED URANITM FUEL	COMPACT CASCADE IMPACTS	EXPERIMENTAL ANDMAL WATERING DEVICE	MODILAR CORE UNITS FOR A MEUTRONIC REACTOR
3,123,862	3,124,513	3,124,514		3,124,538	3,124,525	3,125,409	3,125,492	3,125,497	3,125,678	3,125,760	3,126,251	3,127,763	3,127,872	3,128,234
J. F. Marine, New York, N.Y. and R. T. Sheviin, New Gardens, N.Y.	D. E. Jorner, Clinton, Tenn. and E. P. Wischow, Knoxyille, Tenn.	L. D. F. King, Santa Fe, N. Mer.	L. Lewis, Bridgeport, Comm.	H. P. Iskenderian, Theburst, 111.	J. H. Handwerk and S. D. Lynch, Joliet, Ill.	J. H. Mary, Columbus, Ohio	R. P. Rufer, Castro Valley, Calif.	N. J. Cerson, Lockport, 111. H. W. Ostrander, Westmont, Ill, and C. N. Manter,	E. A. Trickett, San Diego, Calif. and H. R. Gressman, Solans Beach, Calif.	W. E. Miller, H. L. Stethers, Neperville, Ill. and T. R., Johnson, Glen Ellyn, Ill.	E. Benz, Los Alexos, N. Bez.	J. W. Michel, Oak Ridge, Tenn.	A. E. Galson, De Witt, N.T.	G. T. Seaborg, Chicago, Ill., J. W. Gofman, Berkeley, Calif. and B. W. Stoughtom, Oak Hidge, Teom.
MACHINE AND WITHOUT THEADING MICHINE AND WITHOUT AND WITHOUT AND WITHOUT THEADING TH	FRACESS FOR RECOVERY OF STRUBTION VALUES FROM FISSION PRODUCT WASTE SOLUTIONS	CRAPHITE BONDING NETHOD	CRAIN REPLEMENT OF URANITH SILLING	COATED WITH SURGABLE POISON	CONTRENT NUCLEAR REACTOR ELEGENTS	CONTROLLED NUCLEAR REACTOR DISTERSIONS AND METHOD OF MAKING	VERNIER CHANNOTHON UTILIZING AT 12AST TWO SHORTED BELAY LINES	FRICTION-PREE DALANCE	SUPPORT STRUCTURE	DEPAYER CARRIDE TRANSPORTED	PREPARATION OF PUP3	CONTROL ROS FOSTITIONED BY FLUID FLOW TENNICE THE BUD CHANNEL	PRESSUR REFLIEF DEVICE FOR NEUTRONIC REACTORS	DESIGN FOR PRODUCTION OF MULEAR ENGINEER PROPERTY.
3,122,178	3,122,414	3,122,424	3,122,458	3,122,484	3,122,509	3,122,595	3,122,648	3,123,165	3,125,328	3,123,435	3,123,436	3,123,532	3,123,533	3,123,535

	H. M. Heidt, Powell, Tenn.	S. L. Koutz, R. P. Turner, San Diego, Calif. and P. Fortescue, Rancho Santa Fe,	Callf. C. C. Stone, Downers Grove,	III. F. Quinlen and R. G. Wheeler, Richland, Wash.	D. Nicoll, LaJolle, Calif.	Cal. E. F. Ehrman, Cedar Crest, N. Mex. and F. J. Sparber, Beles, N. Mex.	R. H. Hoore, Zemewick, Wash.	S. A. Adar, Beershebs, Israel, and P. R. Fleids, Chicago, III.	G. P. Arnold, F. D. Newcorn, W. D. Schafer, Los Alemos, N. Mex. and P. D. O'Brien, Albaquerque, N. Mex.	E. R. Mams, Oak Hidge, Tenn.	W. H. Zian, Chicago, III. H. P. Possendiek and N. D.	Greene, LaJolla, Calif.	L. L. Ames, R. Pullerton, D. W. Pearce, Michland, Mash.	Q. A. Kerns, Orinds, Calif.	A. A. Windsor, Berkeley, Calif.
	PRODUCTION OF URANITH HITCHOOL ONLY GAS GENERAL TAY IN HIS SOUND AND THE PRODUCTION OF THE PROPERTY OF THE PRO	FUEL ELEMENT FOR A NEUTRONIC REACTOR	NETHOS AND APPARATIOS FOR SEALING	THESS CLADODIC OF NUCLEAR THE, ELDERGIS	TRANSPER MECHANISM	ELECTRICAL CONSECTOR CROTHRIDG APPARATUS	PLUTOSIDA RECOVERY PROR NOCLEAR PUBL	SERMATION OF ACTINITIES FROM EACH OTHER	HYDRAULIC SANTIZ CHANCIZ FOR TANK-TITE WAITZ-COOLED NICEDAR REACTORS	SERVO-CONTROLLED RECOLATOR FOR NEUTRORIC REACTORS	NEUTRONIC REACTOR SYSTEM FUEL CRAINEL ELEMENTS FÜR	CIBCULATING FUEL NEUTRONIC REACTORS	PROCESS OF REPOVING SUTHERSHIPS PROM AQUEOUS SOLUTIONS	TUNNEL DIDDE DISCRIDEIMATOR CIRCUIT	D. C. INSTRUMENT TRANSPONDER SYSTEM
	3,135,559	3,135,665	3,135,856	3,136,051	3,136,432	3,136,593	3,136,399	3,136,600	3,136,697	3,136,698	3,136,699		3,136,715	3,136,902	3,136,948
	G. R. Lembertson, Oskland, Calif.	T. A. Love and R. S. Murrey, Oak Hidge, Tenn.	W. H. Johnston, Baltimore, Md.	E. Storm and S. Shlaer, Los Alamos, N. Max.	J. T. Bussell, Eichland, Warb.	M. Homermesh, Villa Park, Ill., S. S. Hanna, Western Springs, Ill. and G. J. Perlow, Downers Grove, Ill.	E. V. Padgett, Richland, Vash, and D. E. Warf, Pasco, Wash.	E. A. Trickett, San Diego, Calif.	E. B. Mesrobian, Einsdale, Ill., D. S. Sallantine, Niue Point, N.Y. and D. J. Metz, Stony Srook, N.Y.	J. N. West and R. W. Deutsch, Clearwater, Fla.	W. R. Baker, Oririta, Calif. and K. Ralbach, Berkeley, Calif.	H. M. Busey, Los Alemos, M. Mex.	P. R. Shonks, Riverside, 111.	Z. Frisch, Pittsburgh, Pa.	A. H. Mahay, Argonne, III.
-	EXTRACTOR FOR HIGH ENERGY CHARGED PARTICLES	FAST NEUTRON SPECTROMETER USING SPACED SEARCHUNCTIONS FOR MEASUR- INC TOTAL EMERIT OF NEUTRONS CAPTURED	DEEP WATER ISOTOPIC CURRENT ANALYZER	NUCLEAR RADIATION DOSIDETER USING COMPOSITE FILIER AND A SINGLE ELEMENT FILIER	NEUTRON FLUX INTERSITY DETECTION	METHOD AND AFPARANTS FOR PRODUC- ING AND ANACYZING FOLGRIZZED CARMA EADLATION	NONDING NETSON	ARTICLE BANK DIG DEVICE	SADLATION INDOCED VULCANIZATION OF MUSER LATEX	NOCIZAR REACTOR	CONTRA-ROTATING PLASMA SYSTEM	HOMOCENEDUS REACTOR FUELED WITH SUSPENDED PARTICULATE IN THE	COOLANT ELECTROMETER UTILIZING A-C AND D-C VOLLAGE MALABOTIC	NEUTROWIC REACTOR FUEL.	RADIATION DETECTING WITH SHUTTER CLASS
	3,128,405	3,129,329	3,130,304	3,130,306	3,130,307	3,130,315	3,130,491	3,130,841	3,131,139	3,132,076	3,132,996	3,132,997	3,133,248	3,133,867	3,134,019

W. B. Loswenstein, Elmburst, III.	L. F. Batch, Brookhaven, N.T. and T. V. Sheehan, Hamiton beys, N.T.	C. N. Kelber, Wheaton, Ill.	R. E. Peterson, Ecnawick, Mash. and S. L. Stewart, Bichland, Mash.	A. P. Frass, Enoxyllle, Tenn. and J. J. Tudor.	Oak Eidge, Tean. A. Roberte, Cafoago, Ill.	H. P. Henry, Groscastle,	Ind. P. W. Reinhardt and F. J. Provis. Onk Ridge. Year.	E. L. Chase, Slue Point,	E. E. Clausing, Ock Eldge, Tenn.	R. P. Stromberg, Albaquerque, H. Mer.	L. H. Weinberg, Schenectedy, M.Y.	W. E. Lenz, Los Alexos, E. Nez.	A. M. Harris, Sam Diego, Calif. and B. Ledin,	LaJolla, Calif.	H. Heynan, Santa Po, H. Mex.	K. O. Priendrichs and H. Grad, New Rochelle, M.T.
PAST REACTOR CORE	DOMNELON PACED SED NOTLEAR FISSION REACTOR	NOCERA REACTOR WITH INFROVED BEAN TUBE	LARGE PAST SUCLEAR REACTOR	CHARGING ALTO SERVICE WACHING	MEANS FOR LUTTHERMAN THE PROPERTY OF	WOCZAR PARTICLES WHITTON DEPOCACE CHILITRE	INDITION MANAGEMENT OF LITTING A STREET OF STREET	TRANSISTORIES ANALOG-TO-DIGITAL COSTORIES	METHOD FOR HAIDTAINING VEITH	WEIGHTLESSWESS SWITCH	SELECTOR FOR PAST AND DITEREDIATE EMERCY RETTEONS POSITIONED	POSTGREED TANTALING ARTTCLES	DELYE MECHATISK		REVERSIBLE ELECTRONICHEC	APPARATUS AND METHOD FOR COM- FINENC A PLASMA.
+=	3,140,235	3,140,236	3,140,237	3,140,238	3,140,394	3,140,197	3,140,398	3,140,479	3,140,820	3,141,084	3,141,092	3,141,235	3,141,380		3,141,413	3,141,826
L. R. Hawk, Hayward, Calif. and V. E. Scribner, Fleasanton, Calif.	D. Micoll, LaJolle, Calif. and J. L. Bedgecock, Encistae, Calif.	J. T. Bark, Lankaster, Pa.	W. B. Silker, Zemnewick, Wash.	S. F. Wilmer, Esacho Santa Fe, Calif.	J. F. Quirk, Cardiff, Calif. and F. E. Loff'res, Del Yer, Calif.	E. L. Foster and R. R. Walker, Columbus, Ohio	P. Fortescue, Lajolia, Calif. and D. Hicoli, Del Mar, Calif.	E. L. Ford and E. E. Hampy, Alboquerque, W. Max.	G. Voida, Albuquerque, M. Mex.	R. R. Eheaume, Centercach, M.Y., R. E. Eider and F. A. Janik, Medford, M.T.	C. R. Binner, Righland Park, III. and C. V.	J. R. Polts, Canoga Park,	Calif. and W. J. Gardner, Woodland Hills, Calif.	J. E. Trapp, Clacianati, Okto	E. C. Burst, Stoughton,	J.S. Ens., Livermore, Calif.
FLUID METERING DRVICE	SUCLEAR REACTOR PUEL SANTALING SYSTEM	ULTRA RIGH VACUUM DEVICE	NUCLEAR REACTOR OPERATION	REACTOR FUEL ELENEST CONTAINED AESOESER	CENAMIC PRODUCT COMPRISING SHITCED PRICILIA AND RESTORITE AND PETEOD	TUNCSTEN ELECTRODES	NUCLEAR REACTOR HAVING TRANSFER MECHANISM	CAPACITOR WITH AN INTERNAL CAS DASZIER	INSPECTABLE SOLDERING PLUE COMPOSITION	AMPLIFIES APPARATUS POR HIGH ENERGY PARTICLE ACCELERATORS	SEAT EXCRASTRA	NETHER OF REPROCESSIBLE TON	REACTOR FUEL	PROCESS FOR PREPARATION OF URANTUM METAL	TITANIUM PRIMER FOR AN EVAPOR-	TON FUNCE PROCESS FOR PRODUCING OSTINITION RESISTANT REPRACTORT COALING ON DRINGE CRAPMITE
3,137,134	3,137,397	3,137,551	3,137,634	3,137,636	3,137,657	3,138,453	3,138,535	3,138,652	3,139,360	3,139,591	3,139,927	3,140,151		3,140,171	3,140,173	3,140,193

G. W. Erystyniak, A. T. Macelgroneo, Schemeckaly, B.T. and G. L. Floetz,	Scotta, N.T. E. D. Jordan, Emsington, Md.	E. Moses, Park Forest, Il.,	H. S. Kalish, Jackson Beights, N.Y. and H. E. Hausner, New York, N.Y. J. N. Enichton, Jolies.	III. and R. K. Stemenberg, Reperville, 711.	D. J. Goerr, R. S. Heal, Menlo Park, Calif. and K. S. Mallory, Palo Alto, Calif.	T. A. Cens, Oak Ridge, Tenn.	G. E. Martby, J. E. Gilchrist, and J. E. Campbell, Cincinnati, Ohio	L. Goldstein, Monsey, M.Y., L. Joseph, Greenburgh, M.Y., M. S. Silberstein, Briarciiff	Memor, E.T. and A. A. Welnstein, Bronz, E.Y.	D. E. de Boisbiane, Idabo Falls, Idabo and B. H. Leonard, University City,	A. P. Prass, Dorrellie,	J. V. Berrison, Marthan, III.	T. J. La Chapelle, Deglescod, Calif.	L. P. Batch, Brookhaven,	Mr., and W. H. Regan, Rockville, Md.
PRODUCTION OF BOOMD PARTICLES OF CERACIC PATERIAL	DETECTING RIDGEN ELECUSIVES USING RELIGIOUS REALS RECORDS	ATMOSFERENCE EDDY DISTURBANCE SETECTOR	UNABLUS-TIN-LIBORIUM CORRESTOR RESISTANT ALLOT SEPARATION OF PLOTOSITIM, UNABLUM.	ANDREACTOM AND PERSONS PRODUCTS PROM EACH OTHER	METERS ARE APPRACTUS FOR PEASING A LIGHE ACCREDATOR	DISSOURTER OF THE PLEASURS	EMPONETTY ANIONIC INCREDIENTS	Marie Barne		ADVANCED TEST MACTOR	RESILIZAT MODERATOR STERCIORE	ANDRE WITEIN WIPEL AND NOTILE CAP CONSTANTON	OFFICE OF PRIAVALENT NEPTAVALENT	PLATIBILITY SOLIDS PROCESS FOR	ZIRCORIDA-TYPE PUBL, KLENGETS
3,146,281	3,146,349	3,146,622	3,147,088		3,147,396	3,148,941	2,140,000	3,143,143		3,149,044	3,149,047	3,149,611	3,149,908	3,149,909	
N. P. Inkenderies, Historit, III.	P. Portescus, San Diego, Calif. L. R. Zawell, Rancho Santa Fe, M. Nax, and D. C. Morse, San Dieso, Calif.	J. J. South, Eichland, Mash.	J. Cheraick, J. W. Bastisgs, Patchcyas, M.Y., K. W. Donnes, Setanket, M.Y., J. M. Enderis, Belloort, M.Y. and M. J. C.	Routs, Broothaven, E.Y. C. E. Isylor, Livermore,	Calif., A. L. Dant, Alcoo, Calif., and J. R. Cardmadro, San Jose, Calif.	M. Raber, Yoskers, N.Y. and G. A. Sofer, Units-Flains, N.Y.	G. Strickland, Nue Point, N.Y., E. Johnson, Shorekan N.Y., F. L. Horn, Sayrille,	West Islip, N.T.	E. F. Grob, Raperville, Ill.	J. P. Hommond and J. D. Sease, Encaville, Tenn.	R. L. Lequer, Espanola, N. Max.	J. A. Pardini, Brookfield, Ill. and V. Butter, Chicago, Ill.	E. S. Widdows, Albequerque, N. Mex.	R. L. Moore, Richland, Wash	P. Fortsscus, D. C. Morss, San Diego, Calif. and L. R. Duswalt, Labolis, Calif.
SERENTE REACTOR CORE VITE ALTERNATE ZONES OF METATED AND DESIGNED PURE.	FUEL ELDERT	PROCESS FUR TER PARAICATION OF MUCLEAR FUEL BLENGSTS	RIGH FAUT DAM REACTOR	PROCESS AND LEVICE FOR CETOCESIC	ADSOURTION TONE INC	SUBCOULD LIQUID DUET POC COOLED FUCLEAR REACTORS	METENDO OF PETENDORSSING MUCLEAR FUEL ELEIGHTS		FUEL ASSENGLY FOR LOW POWER, REACTORS	METHOD FOR INDROFING REDROLYSIS EXSISTANCE OF UTAHITON CARBING CONTAINING CONFOSITION	SUPERCOSMOCTIVE ELECTRIC SVITCE	FOREX LIDITING DEVICE FOR MOTOR CONTRES.	PARACEUM DEPLOTMENT CONTROL. ASSENDLY	PRODUCTABLIBUTION OF UNANTUM	FOLL ELDBORT
3,141,827	3,141,629	3,141,911	3,143,478	3,144,200		3,144,393	3,145,078		3,145,151	3,145,182	3,145,284	3,145,333	3,145,956	3,146,064	3,146,173

C. F. Empter, and J. C. McGuire, Los Alemos, N. Mox.	S. Lawrocki, R. E. Steumenberg, Napartylla, 111, and J. B. Polobon, Dalter 711	C. C. Dam, Almo, Calif.	W. E. Winsche and M. W. Dawis, Aiken, S. C.	B. J. Bents, Cushing, Okla.	Washington, No.	D. C. Worlton, Richland, Mash. and E. A. Walker, Pasco, Wash.	M. Cefola, Tonkers, N.Y.	B. E. Paige, K. L. Mobde and B. J. Hewby, Idaho Falls, Idaho	A. Schneider, L. Burris and S. Lawroski, Haperville. III.	G. E. Benedict and J. L. Dwanson, Richland, Wash.	J. B. Enighton, Jollet, III., R. K. Steumenberg, Naperville, III. and J. P. In Plente, Palos Park, III.	A. Rad'cowsky, Silver Spring, Md.	G. Jansen, Kennewick, Wash., G. L. Richardson, A. M.	Flatt, Richland, Wash. and L. A. Bray, Pasco, Wash.	N. R. Bertz, Kottering, Obio
 PREPARATION OF SCANDISH ETHRIBES	AMERICIUM-CURIUM SEPARATION	INJECTION NETHED AND APPARATUS FOR CONTROLLED FUSION DEVICES	METHOD OF DESITIONATING AND IN- SOLUBILITIES AN AQUEOUS NUCLEAR	LUBRICATION OF MANDRELS FOR TUBE	CALIFORNIA LONG	METHOD AUD DEVICE FOR COSTROLLING ULTRASORIC WELDING AFFARATUS	POTASSIUM PLUTOMIUM SULPATE SEPARATION PROCESS	EMELSION CONTROL IN LIQUID- SUSPENSION EXTRACTION	PROCESS POR PREFABING URANIEM MUNICIPALITY	PAUTONIUM SEPARATION FROM URAKITM AND LANTHANIDES BY PRECIPITATION PROM MOLIES CELORIDE SOLUTIONS	URANIUM RECOVERY FRUM ORE CON- CENTRAINS	NOCLEAR REACTOR	STROWTUM RECOVERY PROCESS		POLONIUM COMPOUND MEAT SOUNCES
3,152,868	3,152,687	3,152,959	3,152,984	3,153,482		3,153,850	3,154,375	3,154,376	3,154,378	3,154,379	3,154,408	3,156,471	3,154,500		3,154,501
K. A. Gechneicher, Los Alamos, N. Max.	L. D. Stephens, Walnut Greek, Calif.	J. E. Asmon, Akron, Okto	A. J. Goldman, G. Breidenbach, New York, N.Y.	R. H. Poz, Livermore, Calif.	H. E. Metcalf, Chicago, Ill.	H. O. Monson, Elmburst, Ill. and E. Butter, Chicago, Ill.	A. E. Heimbuch, El Cerrito, Calif.	J. H. Schnitt, Oak Eidge, Tenn.	A. K. Bishay, Chicago, III.	E. L. Laquer, Espenola, N. Mex.	S. H. Smiley, D. C. Brater, Oak Ridge, Team. and C. C. Littleffeld, Kingston, Temp.	J. G. Hant, Framingham, Mess. O. N. Carlson, F. A. Schmidt	and J. A. Haefling, Ames, Iowa	F. Schwerer, Mount Lebanon, Ps.	R. M. Donglass, Akros, Ohlo, R. W. Zarle, E. Honig, and D. C. Morth, Lymchburg, Ve.
CKIDATION RESISTANT CRRIBH ALLOTS	APARATUS FOR CORRECTING SEN- SITIVITY VARIATIONS IN PROTO- MULIFALER TURES	PACKAGED SUCERAR PLANT WITH INTEGRAL SUPERSEATER AND PRESSURIEZE	STEAM-WAITE MIXING DEVICE FOR STEAM-COOLED REACTOR	BEGS FLUID FLOW BATS NOCLEAR MS-ACTICS	REACTOR	FUEL SUBASSENGLY FOR NOCLEAR REACTOR	TON EXCRANG RESIN WITH SCIN- TILLATING PROPERTIES	REMOVAL OF FUDENCIABON DECRAIN- TION PRODUCTS FROM ORGANIC SOLUTIONS	CLASS OF BIGS ULTRAVIOLET, TRANS- MITTANCE, METHOD AND ARTICLES MANDEACTURED THEMETHON	INCREMENTAL RECENTAL METHOD AND APPARATUS FOR EXENSITING RICH GUZZELT SUFERCHNOCTING RESCIND- NACHETS	FETTERATHENT OF URANITH DIOXIDE TO FROMUTE ITS CONVENSION TO URANIUM TETRAFLUCAIDE	TURCSTER TURING EXTREMS NULLEY PURIFICATION OF TITRIUM METAL		CORE ASSEMBLY FOR A NUCLEAR REACTOR.	CONSOLIDATED MUCLEAR STEAM CENTRAL AREANCEMENT
3,149,966	3,149,968	3,150,051	3,150,053	3,150,054	3,150,055	3,150,057	3,150,101	3,150,159	3,150,281	3,150,291	3,150,924	3,150,936		3,151,029	3,151,034

W. J. Whitfield, Alboquerque, M. Max.	H. Pestiman, Tersans, Calif. and L. A. Hanson, Canogs Dark, Calif.	J. Sherman, Pittsburgh, Pa., J. E. Skarbaugh, West Miffils, Pa., W. L. Farth, Canonsburg, Pt., N. J. Palladico, Centre	County, Fa. and P. G. De Buff, Bethel Fark, Fa. W. D. Fowler, Powsy, Calif.	L. A. Bray and E. C. Martia, Richland, Mash.	G. Seaborg, J. E. Willard end S. G. Thompson, Chicago, Ill.	J. P. Boice, Albuquerque,	N. Nex and G. L. Anderson, Soulder, Colo. N. C. Lambert, Richland, Wash.	I. E. Kradsen, Downers Grove, III. A. A. Jonke, Elmburst,	III. and M. M. Levitt, Bellwood, III.	R. A. Durdl and W. S. Ard, Onk Ridge, Term.	D. R. MacTerlane, Downers Grove, Ill.	H. L. Libby and J. T. Enseell Richland, Mash.	J. L. Engle, New Lisbon, H.J.	G. T. Seaborg, Berkeley, Calif.	P. S. Orr, Enorellie, Tenn.
ULTRA-CLEAN ROOK	SEPARATION OF AN ACTINIDE METAL FROM AN ALLOT	FUEL ASSEMBLY SUPPORT STSTEM FOR NYCLEAR REACTOR	FUEL ASSEMBLY POR MEUTROWIC	MESTING OF TREATING RADIOACTIVE MASTE	PROCESS OF PRECIPITATING FLETOKINA AND COMPOUNDS FORMED THERENY	BARTHAUSEN OSCILLATION	ELIKIMATION MEANS DISSOLUTION OF URANITH OXIDE	PREPARATION OF DENSE TRANSIUM DIGITING PARTICLES		FLASHA CESERATOR	NUCLEAR REACTOR	SECREMENT TIME REVERSAL DEVICE	DATECRATOR UTILIZING A BLOCK- DIC OSCILLATOR CIRCUIT	ELEMENT 96 AND COMPOSITIONS THEREOF	METHOD FOR PURIFICATION OF PROMETHIUM-147
3,158,457	3,158,468	3,158,543	3,158,549	3,158,577	3,158,614	3,158,815	3,160,470	3,160,471		3,160,566	3,160,568	3,160,617	3,160,818	3,161,462	3,161,463
D. M. Olson, Les Alemos, N. Mex.	G. T. Seaborg, Chicago, III.	L. F. Hatch, Ecochaven, N.Y., J. J. Bally, Bellport, N.Y., C. B. Bertlett, West Islip, N.Y. and R. Johnson, Shoreham, N.Y.	E. F. Doering, Smithtown, K.T. and W. D. Tucker, Sayville, W.Y.	F. R. Josephson, Rochester, N.Y. and L. S. Burkhart, Ames, Iowa	M. M. Hill, Livermore, Calif. and D. F. Martin, Alamo, Calif.	W. R. Baker, Orinda, Calif.	H. Earty, J. J. Regimbal, R. D. Widrig, Eichland, Mash. and K. G. Toyoda, Pasco, Wash.	J. K. Burke, Bellston Lake, H.Y.	W. C. Monday, Albuquerque, H. Mex.	F. R. Shomks, Riverside, Ill.	L. L. Burger, Eichland, Wash.	The state of the state of	W. J. O'Lesty, Ciaymont, Del.	Ohio	E. J. Reithel, Los Alamos, N. Mex.
SELF-CONTAINED VARIABLE-	ELEMENT 95 AND NETHOD OF PRODUC- ING SALID ELEMENT	STATISTICS STEEL DECLADOING	TITELDH-90 GENERATOR	APPARATUS POR TEXATORIST OF MULTIN MATERIAL.	APPARATUS FOR STATING 1085 18 A FLASHA	PLASMA SWITCHING PINCH THIS	COME FOR A SUPERCRITICAL PRESSURE FORTR REACTOR	NETHOD OF PAKING FUEL COMPACTS FOR NEUTROPIC STSTEMS	THOSE KECHAITSM	ELECTRONSTER HAVING PLEXIBLE ELECTRONS AND PLEXIBLE PIECE	EXTENCTION OF PLUTONIUM AND URANIUM VALUES PROW AQUEOUS	SOLUTIONS SOLUTION WAS DON'THE	METEOD OF STHIRETING CERAIGO SHAPES	STREET, STREET	LOW WOLLAGE DETONATOR STSTEM
3,156,011	3,156,523	3,136,526	3,156,532	3,136,534	3,156,622	3,156,623	3,156,625	3,156,747	3,156,851	3,156,869	3,157,463	1157 601		1 157 800	

J. B. Enighton, Joliet, Ill. and A. V. Barbaran, Westmoot, Ill., B. E. Stwomenberg, Haperville,	III. and W. H. Bauschildt, Rinsdale, III. R. F. King, Knorwille, Tenn.	P. Patriarca, Eboxville,	Tenn, and G. M. Slaughter, Oak Ridge, Tenn.	W. E. Colliber, Paducah, Ky.	H. M. Katz, Port Jefferson, N.Y.	P. P. Turner, Cincinnati, Ohio	L. D. Stoughton, Chatham, H.J., F. M. Blocher and M. D. Veigel, Columbus,	Ohio E. C. Hurst, Stoughton, Wis.	W. H. McCorkle, Einsdale, Ill. and H. S. Cern, Chicago, Ill.	L. C. Amos, Longview, Wesh.	E. D. Duncan, Eichland, Wash.	D. C. Worlton, Michland, Wash.	D. V. Ball and B. D. Troyer, Boulder, Colo.	E. T. Coffmen, Efchland, Wash.	J. W. Frazer, Livermore, Calif.
PREPARATION OF THORITON NETAL FROM THE CALLOS	TON PULSE GREENATOR CONTRACTOR DESCRIPTION PRANTS TO SHEEF AN TON	MAN ACROSS AN APPRITURED NEWSON		PROCESS PLA SEPARATION AND RECOVER OF VENETILE PROCESS PROFESS PROFESS PROFESS PROFESS CAMERA THE SAME	SEPARATION OF STAINLESS STEEL FROM A NOLLEAR FUEL	HIGH STRUCTH DERTILIA ARTICLES	CERACIC COATED FUEL PARTICLES	METHOD OF MAIN TREATING TUNCSTER WIRE OR MINON	NOCE." REACTOR CORE AND FUEL ASSECTION	STP:NTIIN CHECKITION AND PROCESS OF PAXING II	A. PARATUS FOR CHECKING THE A. LIGHERT OF VERTICAL CHANNELS	PETEOD OF APPLYING LANG WAVES IN ULTRANSONIC TESTING	SEALTHC PRUSS	APPARATES FOR WEIGHING MATERIAL IN A SEALED VEYLOSTIRE	N. H-DIPHTNALINIAMDES
3,164,462	3,164,718	1 164 807		3,165,376	3,165,377	3,165,417	3,165,422	3,165,427	3,165,448	3,165,475	3,165,835	3,165,922	3,166,133	3,166,136	3,166,595
R. P. Hammond, H. M. Busey and J. R. Hurphreys, Los Alsmos, N. Mex.	J. N. Harrer, Elmborst, Ill., C. F. Ballinger, Falo Alto, Calif. and V. M. Kolba, Flainfield, Ill.	G. S. Barton, Kennewick, Wash.	G. B. Barton, Kennewick, Wash.	D. E. Johnson, Cardiff, Calif. and F. E. Lofftus, Del Mar, Calif.	R. A. Emdall and D. F. Wilkes, Albequerque, M. Max.	I. T. Holt and H. E. Widdows, Albequerque, N. Max.	N. R. Davidson, Sterra Madre, Calif.	R. O. Elliott and K. A. Gachneidner, Los Alemos, N. Mex.	W. C. Rodmen, Minsdale, Ill.	A. Allen, Medford, Mass.	R. M. Cordy, Sherman Caks, Calif. and J. W. Flore, Denver, Colo.	R. J. Fox, Oak Eidge, Term.	G. M. Burgwald, Belmont, Calif., L. Reiffel, Chicago,	III., W. K. Gentha, Menomonee Falls, Wis. C. Pyfe, Fox Point, Wis.	R. P. Levey, Oak Eidge, Term.
HOMOCENECUS-LUQUID METAL-FAST REACTOR	BOILING-WATER WELLEAR REACTOR.	RADIOACH VE STRONTIUM COM- TA DRESHT	RADIOACTIVE CESTER CONTAINEDS!	METSOD OF MAKING HOCIEAR FUEL COMPACT	CHAIDIBBCTICKAL SWINCE	RAM AIR DWIATED FLODATION BAG	PROCESS FOR PREPARATION OF STLEVE-CONTAINING COMPONIES OF PLIVORIEM	FUTCHIN ALLOYS CONTAINING CONTROLLED AFORSTS OF FLUTCHINA ALLOTROPES OFFAILED IN APPLICATION OF HIGH PRESSURES	REACTOR CONTROL VITE TSORIUM CONTROL CRID	REACTOR AND APPARATUS FOR COST- TROL, THEMEOF	NEUTRON FLUX BEINGTOR	METHOD OF FARMICATING SUMPACE BARRIER DETECTORS	PASS PLOW MEASURED G DEVICE		GAS-SOLIDS CONTACTING NETHOD
3,161,570	3,161,571	3,161,600	3,161,601	3,161,701	3,161,736	3,161,896	3,162,509	3,162,527	5,162,577	3,162,578	3,163,759	3,163,915	3,164,019		3,164,440

	D. S. Rosch, D. A. Roberts and A. M. Hall, Columbus,	Ohio E. F. Post, Walnut Creek, Calif.	E. P. Enmond, Los Alemes, E. Nex.	D. Micoll, San Diego, Calif.	E. Elumberg, Vycming, Okto J. A. Dedek and E. L. Esed, Woodland Hills, Calif.	R. L. Macklin, Oak E'dgs, Tenn.	T. L. Collins, Watertown, Mass. W. J. Poppelbaum, Champeiler.	Ill. and N. E. Visuman, Serts, England						
	THOSE ALLOW	PTRACTICAL AND PROCESS	PASTE SEACTOR	CONTROL BOD DRIVE MECHANISM	SELE-HOUSEATTHE FUEL ELEMENT	MAPTIALETE DERIVATIVE SCHETLLATORS	LONG STRAIGHT SYCTIONS FOR ALTERNATION CRADIENT STRUGGACTEONS SENDOMEOCYCO RISTABLE CINCUIT	WITH INTICEAL CATE						
	3,170,824	3,170,841	3,170,643	3,170,844	3,170,846	3,170,884	3,171,025							
	L. Silverman, Dover, Mass.	G. E. Tully, Powny, Calif., B. F. Dinselhoret, Solana Beach, Calif. and D. E. Davis, Escondido, Calif.	K. Katz, Pittsburgh, 7a.	L. Scott, Paris, France	E. Redstone, Baldock, England, chd M. C. Rowland, Ritchin, England	J. G. Bronson, Los Alamos, N. Max.	J. B. Enighton, Jolist, Ill. and R. R. Steunenberg, Heperville, Ill.	E. W. Dickinson, Eurthridge, Calif. and D. T. Ligem, Sente Susans, Calif.	C. A. Stone, South Holland, III., L. Reiffel, Chicago, III. and I. Filosofo, Padova, Italy	F. N. Buffman, Baltimore,	C. O. Tarr, discinsati.	 M. Mayfield, Gen Ellym, III. and W. G. Tope, Raperville, III. 	N. H. Binstock, Cenoga Park, Calif. and H. E. Kline, Chatsworth, Calif.	M. A. Achverte, Davies.
1	RESPIRATOR WITH POSITIVE AIR SEAL	CARROT SOOY TREATMENT	FUEL ELDSON	CINCILE PULSE EDOCUTION	TABORT FOR A HENTROM CENERATOR COMESTING OF A COATING OF ORE OF THE LANTEANING ELEMENTS ON A BASE METAL.	LIQUID LAVIE, CAPACITANCE PROSE	SERVATION OF PLETONIEN, UNASIDA AND PIESION PRODOCTS FROM EACH OTICER.	NOTICE ELECTOR TOT PASTS COMPOSITION	LOW EXERCY RETA BADIATION SISTEM FOR FLIENT PATERALS WITH FLUXAL SCINTILLATION FIRENS IN RESEASONAL ARAT	THEMSON CONTRICTS	JOINTING OF REPACTORY METALS BY SOLID-STATE DIP-USIDE MONDING	NETSOD OF MAKING PLATORITH MUSO-CARBIDE	URANIEM BASE ALLOT	NETHOD OF VITRIFYING CERNISIS
	3,167,070	3,167,447	3,167,482	3,167,65+	3,167,655	3,167,695	3,169,057	3,169,117	3,169,187	3,169,200	3,170,234	3,170,759	3,170,788	3,170,812

	PAYTHER WATCH MAY ISSUED TO THE COMPLISSION AND	E COMPLESSION AND	3,174,921	POLYMERITATION OF ISOBITICINE	M. S. Matheson, Elsadale, III.
	WHICH ARE AVAILABLE TO THE PUBLIC FOR LICENSING IN ADCORDANCE WITH THE LICENSING POLICY OF THE CONDISSION	C FOR LICENSING IN	3,175,104	HICH VOLINCE ELECTRIC CENTRATOR	C. D. Curtis, Medison, Wis.
3,160,567	SOLID STATE POME MAPPING	E. Steinberg, Pairview Park, Obio and W. B. Schwab, Cleveland,	3,175,131	NACHET CONSTRUCTION FOR A VARI- ABLE ENERGY CYCLOTRON	E. L. Eally, R. J. Burleigh, J. H. Dorst and C. G. Dols, Berkeley, Calif.
711 111	METHOD OF MACTIC PLITTORITIES	Ohio L. V. Jones, Mismisburg, Ohio,	3,175,922	NETHOD FOR COATING ACTINIDE PARTICLES	J. M. Blocher and M. F. Streening, Columbus, Ohio
	OKIDE SPIERES	D. Ofte, Kettering, Ohio, F. A. Tucker and L. J. Wittemberg, bayton, Ohio	3,175,931	THEATHERT OF ALUNCHUM SURFACES	C. A. Durgess, Kennevick, Wash, and J. D. Schaffer, Richland, Wash.
3,171,715	METHOD FOR PREPARATION OF SPHERICAL THORIUM DICARSIDE	A. T. Kleinsteuber, Oak Ridge, Tenn.	3,175,955	CRUDENT WEL. PATES	E. D. Cheverton, Knorville, Team.
	AND THORTON-UBALIUM DICARBIDE PARTICLES		3,176,154	THESE STATE MEMORY DEVICE	F. O. Salter, Glen Hilyn, Ill.
3,171,788	NOTATING PLASMA DEVICE	J. G. Corman, Trenton, N.J. and L. H. Rietjens, Rijohulzen,	3,176,195	SUPERCONDUCTING SOLENOID	R. W. Boom and L. D. Roberts, Oak Ridge, Tenn.
3,171,815	METHOD FOR PREPARATION OF	J. L. Kelly, O. C. Dean, Oak	3,177,373	TRANSISTORIZED LOADING CIR- CUIT	R. H. Graham, Malnot Creek, Calif.
	THORIUM DICARBIDE AND THORIUM- URANIUM DICARBIDE PHATECLES	Ridge, Tenn. and D. E. Ferguson, Enerville, Tenn.	3,177,408	SUPERCONDUCTOR SOLENDED WITH OVERSEAT PROTECTIVE STRUCTURE	R. G. Mills and K. E. Vakefield, Princeton, M.J.
3,173,764	DRAWING APPARATUS	C. E. Besn, Naperville, 111.		AND CIRCUITRY	
3,173,757	PURIFICATION OF STRONTION SOLUTIONS BY TON EXCHANGE	E. J. Wheelwright, L. A. Bray, R. L. Moore and F. P. Roberts, Richlend, Wash.	3,177,482	SERWO-STABILIZED ANALOG-TO- DIGITAL CONVEXTER FOR SIGH RESOLUTION PULSE ANALYSIS	R. L. Chase, Blue Point, M.Y.
3,173,880	HOISTURE TABICATOR AND METROD OF MAKING THE SAME	W. S. Pappas and C. W. Weber, Oak Ridge, Tenn.	3,177,553	APPARATUS POR SOLVENT-ISO- STATIC PRESSING	P. B.Archibald, Pleasanton, Calif.
3,173,973	GRAPHITE DISPERSION	M. C. Brockway, Columbus, Ohio	3,178,256	METHOD FOR SEPARATING TRANS- PLUTOHIUM ELEMENTS FROM BARK	F. L. Moore, Encryille, Tean.
3,173,983	· ARC POSITIONING SERVO	J. L. Engle, New Lisbon, N.J.		RAKTH PISSION PRODUCTS	
3,176,153	SWEEPING THACK MIRROR CANCERA	T. Anderson, Castro Valley, Calif.	3,178,258	SERVANTION OF PLUTONIEM NEED. PLUORIDE FROM UPANIEM NEED.	G. I. Cathers, Ecoxville, Tens. and R. L. Jolley, Oak Ridge, Tens.
3,174,616	LESS STEEL OF HOT HITEL ACID SOLUTIONS BY ADDISC CARBON SLACK OR ELDENTAL SULFUR TO	F. C. Rust, Evens, 'cd.	3,178,259	NITHIDED ELECTRODE PROCESS OF PREPARING UNANTUM MONORITHIDE	E. L. Foster, Powell, Ohio and E. W. Endebrock, Columbus, Ohio
	THE SOLUTION		3,178,356	MICENE ENCHOR	C. W. Wasslock, Canoga Park,
3,174,834	FLUTDIZED SED SEACTOR	E. M. Edwards, Tucson, Aris., S. M. Robinson, Brentwood, No. and E. F. Sanders, St. Louis, No.	3,179,501	COUNTRACUSERY MICLEAR-FUEL	J. P. Duckworth, Michiend, Wesh.

A. E. Retrement and L. L. Anne, Elchland, Wash.	H. H. Cleaseen, Wheaton, Ill., H. Sellg, Chicago, Ill and J. G. Malm, Saperville, Ill.	D. c. Schweitzer, R. M. Singer, Last Islie, M.Y. and D. H.	Gurinsky, Center Noriches, M.Y. R. J. Grader, Pleasenton, Calif.	and N. P. Nakada, Silver Spring, Nd.	E. G. Coven, Prederick, Md.	R. Michel, Ryattsville, Md.	D. O. Raio, Walnut Greek, Calif.	E. J. Sess, Los Alemos, N. Nex.	C. A. Low, Cleveland, Ohio	Ohio	E. B. Welson, Albequerqua, E. Marx. and W. M. Trimble and S. Elson, Livermore, Calif.	P. R. Pields and M. H. Ifrin.	Chicago, Ill. and L. Stein, Downers Grove, Ill.	E, A. Kreins and F. Nelson, Oak Eidge, Tenn.	Z. D. Jestrzebski, Easton, Pa.	R. Barty, J. J. Regimbel, R. D. Widerig, Richland, Vash, and R. C. Tornel, Basto, and R.	C. W. Ricker, A. L. Colomb and E. R. Name, Oak Ridge, Term.
PLUTOSTION ADSOSUTION AND DE-	MENDA TETRAPLUDALINE AND PROCESS OF MAKING SAME	LOW TEMPERATURE GRAPHITE MADINITION DAMAGE REMOVAL	PHOTOMULTIPLIER		HICH DIRECTIVITY SOLID CUR- TAIN PERDETER DYNUSION STSTEM	EXPARSION JOINT	NIGHT-ONCIA MOLIT-	NINI-CAN TRACER PLATE	SYSTEM VITH A DIRECT MATERIA	RECTSO CENTRATOR	SWITTER	PROCESS OF MAKING SABOR	PAGE GASES PROW EACH OTHER	SEPANTION OF METAL VALUES BY CATION EXCHANGE FROM COM- GENTALTED PERCELORIC ACID SOLUTION	PROCESS OF MAKING CRECIBLES	FUEL ELDENT FOR A SUPER- CRITICAL PRESSURE FOURE REACTOR	METHOD OF DETERBUING THE NEGATIVE REACTIVITY OF NEU- TRUBLE METHOD VICE CONTROL
3,183,059	3,183,061	3,183,166	3,183,390		3,183,499	3,183,936	2,108,000	3,184,849	3,184,915	3,185,063		3,185,548		3,181,169	3,188,231	3,188,278	3,188,470
D. R. Horner, Clinton, Tenn., D. J. Crouse and K. N. Srowm, Onk Hidge, Tenn.	S. Z. Lewis, Bayeide, M.Y. and M. H. Knelow, New York, M.Y.	H. E. Shommaker, Sem Diego, Calif.	W. V. Goeddel, Powsy, Calif.	Y. Baskin, Chicago, Ill.	R. E. Coven, Los Alamos, N. Nex.	P. Fortsecow, LaJolle, Calif. and D. Micell, Del Nar. Calif.		R. J. Mickert, W. S. Flins, Miconfield, Conn. J. F.	J. J. Both, Granby, Com.	R. Ouckel, Urbens, 111.	J. A. Moskelley, Concord, Calif.	J. C. Hesson, Elverdale, Ill.	N. T. Simmad, bellesley, Nam.	J. Fischer, Patchogue, M.Y., V. A. Higishothem, Bellport,	Point, R.Y.	F. X. Duut and R. O. Work, Albuquerque, H.Mex.	E. Moses, Park Forest, III.
EXTENCTION OF CESTUM FROM AQUEOUS SOLUTION OS DAS PRESENTS	ELECTROCEPHICAL DOS DRITER	METHOD OF PREPARING SPHERICAL MUCLEAR PUEL PARTICLES	NETHED OF POINTING METAL CARBERS SPRENDED WITH CARBON COAT	PROCESS OF MACING ACTINIDE SULPINE AND SIMILAR CONFORMS	COPPER VETALLITING OF ALIMINA CERANICS	NEUTRONIC REACTOR INCLUDING MEANS FOR INCLADING AND NEED- METICALLY FROM LATTOR ERROR	PUR. ELBERTS	HEAVY WATER MODERATED ORGANIC COOLED NUCLEAR PISSION REACTOR		SIBARY ACHORY DEVICE EMPLOY- INC PLIP-PLOP TRAT IS COST- TROLLED BY IN-PRACE DRIVERS	CRASH FRENCY ABSORDER POR HEAVY APPARATUS	Decisional Liquids Serarator	METHOD AND APPARATUS FOR MAKING DESIS BOLES OF RE-	ATTHO PULSES OR THRONOR THE		Ė	VELOCITY
3,179,503	3,179,561	3,179,722	3,179,723	3,180,704	3, 180, 756	3,180,800		3,180,801		3,181,004	3,181,633	3,181,700	3,182,102	3,167,206		3,182,280	2,102,499

0, A. Kahl, Sorthport, M.Y. and A. S. Oltmant, Sapport, M.Y.	J. H. Vogt, Marchester, Comn., C. H. Young and W. C. Reed, Baltimore, Md.	L. E. Kelman, Haperville, Ill., and O. L. Kruger, Westmont, Ill.	C. S. Crumb, Cincinnati, Ohio W. D. Wilkinson, Maywood, Ill.	and L. R. Kelman, Chicago, Ill. U. N. Staebler, Silver Spring,	Md. L. A. Evans, Schemectady, M.Y.	C. A. Barris, Berkeley, Calif. R. J. Kindley, Albequerque, W. Mex.	R. P. Lothrop, San Mateo, Calif.	J. H. Handwerk, G. D. White, Joliet, Ill. and P. D. Shalek,	Champaign, 111. C. D. Brons, Stehland, Wash., and W. W. Caither and L. J.	Rousseau, Econewick, Mash.	C. D. Jeffries, O. Chamberlain, C. H. Schultz and G. Shapiro,	Berkeley, Calif. H. I.West, Livermore, Calif.	R. J. Ascherl, Latina, Italy, E. T. Hubbard, Livermore, Calif.,	D. E. Resser, Kennewick, Wash, and C. R. Osk, Richland, Wash,	T. Anderson, Castro Valley, Calif.
POCO TREADUATOR AND NETHOD	MADIOACTIVE ISOTOPE POWERED THERMOELECTRIC GENERATOR SYSTEM	FUEL ELDERY FOR A NUCLEAR REACTOR HAVING STACK OF THIS FUEL WATERS SUBRESCED IN LADOUD NETAL.	ARMENG DERICE FOR ARREAT BORDS OFFICE AND STANDING CALLEDY ALLOYS AND	MENTHONIC MEACTOR OPERATION	REACTOR CONTROL	HICH VOLING CAME SHOCK ABSORDING CASTER WEEL	METHOD FOR POSMING P-N JUNCTIONS ON SEMICORDOCTORS	URANIUM MOMOSULFINE-MONDCAR- BIDE NUCLEAR FUEL ELEGENT	POSTANIA SIBCTRIC WELDER		BABIO PREQUENCY AMPLIFICATION BY STIMILATED EXISSION OF	RADIATION ANALOGIE TO DIGITAL CONTESTER	DEVICE FOR COUPLING A CHANG- ING APPARATES TO A REACTOR	NOTES	STEPPED CAS MARING
3,192,054	3,192,069	3,192,122	3,192,858	3,193,466	3,193,467	3,193,712	3,194,701	3,194,745	3,194,937		3,195,061	1.195.123	3,195,930		3,195,963
P. Salz, M. W. Yamai, Berkeley, Calif. and M. S. Bacaner,	V. R. Wilcox, Torrance, Calif.	V. P. Calkins, J. A. McGurry, Cimcinnati, Ohio and E. S. Punaton, Hamilton, Ohio	V. P. Calkins, J. A. McCurty, Cincinnati, Ohio and E. S. Funston, Hemilton, Ohio	R. E. Coven, Los alemos, N.Nex.	R. P. Levey, Oak Ridge, and P. R. Irent, Worris, Tenn.	C. J. Renken, Orland Park, III.	G. V. Rodgers, Albaquerque, R. Nex.	W. M. Cooper and J. A. Masters, Livermore, Calif.	G. T. Seaborg, Chicago, III., J. W. Kemnedy, Santa Fe, M. Nex. and A. C. Wahl, Berkeley, Calif.	A. V. Crewe, Palos Park, Calif.	R. G. Cowen, Prederick, Nd.	W. E. Baher, R. W. Layson and K. Halbach, Serkeley, Calif.	E. J. Schneider, Richend, Wash,	D. A. Sunt, Havtborne, Calif.	J. C. Malm, Maperville, Ill., I. Sheft, Oak Park, Ill., W. Classer, Wheston, Ill. and C. L. Chernick, Elver Forest, Ill.
BLOOD PRESSURE INDICATING DEVICE	ZONE-MELLING CRISTALLIZATION TECHNIQUE	BINANT NICKEL, BASE ALLOTS	TERRARY NICKEL BASE ALLOYS	METALLIZING PROCESS POR CERAMICS	METHOD OF PREPARING URANITUM DIOXIDE FUEL COMPACTS	DEVICE FOR TESTING NETAL SMERTS BY MEASUREDS THE TIPE REQUIRED FOR ELECTROPHICAGETIC FULSES TO PASS TREASTHEODOM	WARIABLE TIPE CONSTANT PULSE INTEGRATOR	ROTARY CONTACT	METHOD FOR PRODUCING, SERA- BATING AND PURIFFING PELITORIDA	SCANNING ELECTRON MICROSCOPE	LIGHT SENSITIVE ALARM SYSTEM	PLASH, PROPULSION DEVICE HAVING SPECIAL MARRIE PIELD	CONTINUOUS SOURTION CONCENTRA- TOR	NEWSTANCE BOURLE WALL DITTER- CONNECTED PRESSURE VESSEL	XENON HELKFLOORIDE AND METHOD OF MAKING
3,189,023	3,189,419	3,189,445	3,189,446	3,189,476	3,189,666	3,189,817	3,189,833	3,189,861	3,190,804	3,191,028	3,191,048	3,191,092	3,191,662	3,191,792	3,192,016

T. A. Cens, Oak Hidgs, Tenn.	T. J. Collopy, w. S. Miller, Consissed, Oblo. and 1 of	Maeller, Fort Thomas, Ky.	J. J. Kett, Chicago, Ill.	D. E. Deutsch, walnut Creek, Callf.	F. E. Rom, Avon Lake, chilo	H. P. Kling, Saltimore, Nd., L. Sama, S. Pricoman, Staford, R.Y., Brodwin, Brooking, N.Y. and A. Kiss, New Rockelle, N.Y.	3. A. Webb, Grenada Hills, Calif. and W. R. Roenig, Citrus Reights, Calif.	R. L. Belbesch, Paris, Prance	L. F. Bocher, Richland, Wash.	F. M. Class, Norris, Tenn.	A. Krinsky, Detherds, Mt.	H. B. Stewart, Rancho Santa, Pe. Calif. and E. J. Leshan, San	J. M. Savino, Berne, Ohio and C. D. Lenne, Rocky River, Ohio	C. V. Brynsvold, San Jose, Calif. and K. Hikido, Campbell, Calif.	W. F. Lindsay, Sents Berbers, Calif.
METHOD FOR COLLECTING ALROWING TETMOSLOGIES	MICKEL TO PROPER PRASE SEPARA-	TION IN LIQUID-LIQUID EXTRAC-	SEPARATION OF BUTHERIUM FROM AQUEOUS SOLUTIONS	MESISTANT COSALT BASE ALLOYS	CASSOUS NUCLEAR ROCKET	HICH TESCHALURE HIGHISH- UO ₂ HUCLEAR FIEL SHEET	METHOD FOR CONTROLLING THE COMPOSITION OF UNMINE CAR- BIES AND NUCLEAR FUEL ELDRAT THEREOF	POLYBICAGETIC PARTICLE DE-	PILM BADGE SYSTEM AND HETHOD OF THE DIG.	TRAMSISTORIZED REGULATED RICH WOLTAGE SUPPLY	ALLOTS AND ELECTRICAL TRANS-	RICH TROTRATURE REACTOR WITH SPECIFIC DISTRIBUTION OF MONE-JA', ARGORDOM AND PERSON	SDULATED FUEL ASSEMBLY	PUSE DEVICE FOR A MUCLARE MEACTOR	SOLID STATE MADIATION DETECTION
3,102,475	3,202,476	-	3,202,479	3,202,506	3,202,582	3,102,585	3,202,586	3, 202, 617	3,202,621	3,202,901	3,202,951	3,205,139	3,705,141	3,205,149	3,105,357
A. R. Notheron, Saliston Labe, N.Y.	A. E. Sanda, Dak Ridge, Tenn.	L. A. Chiinger, Chicago, III.	J. A. Dudek and E. L. Reed, Woodland Hills, Calif.	H. L. Libby, Elchland, wash.		J. V. Macomber, hey village, Ohio	J. O. McPurtland, Memowick, Mash. L. A. Pumber, Pasco, Mash. J. A. Christessas, Fittsburgh, Pa.	J. P. Kammend, Encaville, Tenn. and T. D. Matte, Oak Ridge, Tenn.	J. T. Carleton, Richland, Wash.	D. E. Welker, Park Porest, III., and M. A. Woland, Chicago, IIII.	E. Bosen, Elisabeth, H.J.	M. S. Oile, Richland, Wash.	J. ballon and En-long Chu, Pale Alte, Calif.	E. T. Boeth, Her Tork, S.T.	R. C. Boshing, Pittsburgh, Ps.
RECOVERY OF PLATORIUM - MEN'OR UNANTON VALLES FROM ADVINCES	COLLINGE DISSOLVERS	REACTOR MONITONING VEANS	NETHOD FOR PASSICATION SELP- MODERATION FOCLEAR REACTOR FUEL ELEMENT	MCM-PESTAUCTIVE REEN CURRENT SUBSURACE TESTING DEVICE	VARIATION IN PROBE-TO-SPECINGS CRACTED AND STREETS THEORY	MUCLEAR CONTROL SOD ASSESSAY.	THENORISCTRES INCLUME THE SELDIENT	METHOD OF PARAICATING A COM- POSITE NOCLEAR FUEL CONS ELEMENT	MENTHONIC MEACTON STRUCTURE	CLABBING PROCESS	CORROSTOR RESISTANT STALENG STRUCTURE	SEPARATION AND SPOTWEST OF USANISH PROM UNANTUR-ALENEBRIN ALLOYS	NACHETIC NOMENTAM ANALYZING SLAT WITH CHAUSE CONDUCTING STAIPS SECURED TO THE MACHETIC POLES	METHOD AND APPARATES FOR MADID- ACTIVE GAS ANALYSIS USING MEN- TROMS OF TWO ENERGY LEVELS	THRUST SEALDICS.
3,193,977	3,195,984	3,197,377,	3,197,389	3,197,683		3,198,709	3,196,711	3,198,856	3,200,046	3,200,491	3,201,062	3,201,191	3,201,385	3,201,386	3,202,465

T, M. Satzer, Livermore, Calif.	P. J. Crouse, Cak Ridge, Tenn.	R. R. Norstman, Los Alvanos, R. Nex.		L. D. Eubenk, South Ewelld, Obio	R. W. Endebrock, Columbus, Ohio	D. E. Johnson, Cardiff, Calif.	and F. R. Lofftus, Del Nor, Calif.	E. R. Boller, Marion, Ind.	R. E. Bester, Sam Lorenzo, Calif. W. A. Sherwood, Livermore, Calif.	K, Skarpass, Palo alto, Calif.	K, Skarpass, Palo Alto, Calif.	J. L. Blankenship, Knorville, Tenn.	J. F. Fletcher, Kennevick, Mash.	E. R. Astley, R. J. Hennig, Richland, Mash. and L. M. Finch,	Pasco, Wash.	A. Mason, Miraingham, Mich.	
ALUMINUM FOIL ULTEN-RIGH WACHTM	AN AQUEOUS SOLFURIC ACTO FROM AN AQUEOUS SOLUTION CONTAINING HETAL VALUES BY EXTRACTION	WITH TEXTLARY ANIMES POLYTRIPHOROCARBON ADMESTIVE CHARGOTY.	METERIACERIATE COPOLINER RE- ACTES WITH AS EPOTY AND A POLY- AMINO-POLYMIDE RESEN	COATED HETALLIC-URAKIDM ARTICLE AND METHOD OF WAKING	URANTER HONOMITTREDE FUEL AND	NETHOD OF MAXING MOCIZAR PURIL, NETHOD OF MAXING MOCIZAR PURIL.	COMPACT	CANNIDIC NACHIDIE	CARBON-COATED ELECTRO-TRANS- MISSION WINDOW	HICROMAYE MAYEGUINE COUPLING SEAL	ALL-PETAL MAVECUIDE VACUUM	CATE VALVE	SENCIMENTORS METHOR OF CONTROLLING A WOLLDAR	PAST FIEL TEST MACTOR	manners out the Contract Company	HEAT REACTOR WITH INTER- LOCKING DIFFUSER BYD GRID	
3,211,478	3,211,526	3,211,602		3,211,628	3,211,666	4 101 813	3,411,41	3,211,884	3,211,937	3,212,035	1, 212, 036	0 10 0 0	3,212,975	3,212,982		3,212,966	
T. P. Cotter, Los Alamos, M. Mex.	T. N. Bengiger and R. K. Bohwer, Los Alamos, E. Mex.	F. E. Simon, Onford, England, K. Fuchs and R. E. Peleris, Sants Fe, N. Mex.	E. Butter, Chingo, III. and P. Elias, Bensenville, III.	S. Bernstein, Oak Midge, Tenn.	W. E. Boudrie, Fairport, N.T.	W. J. Jenkins, W. Angusta, S.C.	E. F. Stoops and J. V. Esmes, Raleigh, N.C.	E. M. Wallace, Aiken, S.C.		E. P. Levey, Oak Eldge, Tenn.	F. F. Criss, Los Alamos, N.Nex.	C. Wohlberg, and F. F. Criss, Los Alamos, M.Nex.	C. E. Crouthamel, Clen Ellyn, III. and R. R. Heinrich, Downers Grove, III.	S. Jaye, Solans Beach, Calif. and D. H. Lee, Jr. Del Mar, Calif.	E. J. Resnig and D. T. Asse, Eichland, Mach.	S. A. Colgate, Livermore, Calif. and A. W. Trivelplace, Lafayette, Calif.	H. V. Herndon, Elchland, Vash.
NYTERSONIC PLASMA TREBNO- COUPLE	PREPARATION OF NITROALKIL.	DIFFUSION SEPARATION OF FLUIDS	NOTARY SEAFT CONSTRUCTION WITH DIAFREMON INTE OF SEAL	THE-TOW ARRUNCINESST. FOR MULLEAR A LIBERALT.	DISTENTED TUBE COUPLING	NETSON OF DISSOLVING PLU-	METHOD FOR STANILIZING URANITUM MOMOCARSIDE	NETHOD FOR DECONTANDATING	MUCLEAR PUELS CONTAINING RUTEINING CONFLEXES	ALEGERA-CORALT-COLD COM-	CARSIDE COATINGS FOR CHAPSITE	CARBIDE COATINGS AND GRAPHITE	PERSONAL CELL	NOCLEAR NEACTOR FUEL MANGE- MENT METHOD	FUEL ELEMENT FOR A MOCLEAR REACTOR	NETHOD AND APPARATUS FOR DYNAMIC FINCE PULCE WASER FUNCTING	UNIT. DRAR DISPLACEMENT MAN- STREIG APPARATUS
,206,624	,207,796	,206,197	,208,789	,208,692	,208,773	1,208,817	1,206,818	9,208,819		3,208,848	3,208,870	3,208,872	3,206,883	3,208,912	3,208,916	3,209,281	3,210,852

C. Deranow, Euclid, Onlo and R. C. Laver, Anchorage, Ny.		ENATUR E. E. Masset, Chicago, III. A. J. Rabell, Aluquerque, H. Per, and C. W. Rosekhe, Falo	÷	ANGLED FLATE SCARNING INTER- W. L. Barr and A. L. Gardner, PERCHETTA	EDDOVERY OF STRONTING VASTE N. Bavis and W. C. Yee, Cak FROM SILPATE-CONTAINING WASTE RIdge, Tenn.	PROGNETATION OF SUCLEAR PURI. N. N. Peder, Park Porest, III. and R. K. Stemmenberg, Reperville,		METHOD AND APPARATUS FOR PRO- A. W. Ehler, Los Angeles, Calif. BUT DENSE FLASHA	ELECTROSTATIC APPARATUS FOR R. T. Allemenn, R. L. Moore EDMONAL OF DUST PARTICLES and U. L. Upson, Richishd, pages A. CAS STERAN	8		DESTRICT DISTRICTORATION AND M. J. Bradley, Oak Ridge, Term. NECOTER OF URANIUM FROM SIN- and L. M. Ferris, Enexville, Term.	PROCESS OF PREPARING THORIJA J. S. Enfebton, Jolies, 111, and		
3,316,651 COATING FOR COLLHSIUM	3,216,963 HOUNTING OF FUEL TURE IN REACTOR SHIELDING	3,217,199 HONOPOLAR GENERATOR 3,217,322 F. N. SABAR SYSTEM	3,217,471 DIFFUSION NOAND POR PIL. DRG HIGH PASSSUAR GASES	3,217,991 ANCLED FLATE PEROMETER	3,218,123 ABCOVERY OF S PROH SULFYEE SQUITTINS	3,218,140 RECENEATION			3,218,781 ELECTROSTATIC APP. REMOVAL OF DUST P. PROW A CAS STEAM	3,210,843 ULTRASONIC IN	POR DIACCESSIBLE PIPE AND TUBING	3,219,408 CHENTOAL DIST MCCONTRY OF U TERES CAMPHET	PAGES OF PR		
G. V. Brymavold and W. A. Sangster, San Jose, Calif.	G. E. Benedict, Richiesd, Mash. 3	Sames, Resville, Ten.	R. A. Craig, W. Hartford, Comm.	D. E. Johnson, Cardiff, Calif. sand F. R. Lofftus, Del Nar, Calif.	D, V. Brite and K. R. Sump, Richland, Wash.	R. J. Durlaigh, Berkeley, Calif.	G. F. Brickson, Les Alames, N. Mex.	1	. 5. Easton, Lemoir City,	A. G. Silvester, Les Cates, Calif. 3	R, Lackey, Oak Eldge, Tenn.	E. V. Cuenther, Ses Jose, Calif. 3	C. V. Bosehka, Albuquarque, R. Mes.	D. Micell, La Jolla, Calif., and J. L. Hedgecock, Encinites, Calif.	i
CONTINUOS SUPPORT PUEL MOD SPACER SYSTEM	ELECTROLITIC REPARATION OF PLUTONIUM VALUES FROM UPAKINGS	PROCESS FOR SINTERING URANIUM MI- J. P. TRIDE VITH A SINTERING AID 36- PRESSANT	PROCESS POR PORMING A URANIDA NORONITRIDG-URANIDA DIOXIDE NUCLEAR PURL,	METHOD OF MAKING MOCLEAR PUEL COMPACT	PARTICATION OF SHAPES BY PREUMATIC DOACTION	ABSORPTION OF EMERGY BY ROTATING DISCS IN PARTICLE REAM DEPLECTOR	CERAMIC TO METAL BONDING	NETHOD FOR DICEMSING THE CRITICAL CURLENT OF SUPER-	CONTROL ALLOTS	MUCLEAR REACTOR VITH DER- GENCY COOLANT CROSS PLOY	MELTI-MEDION NEUTHONIC PURE.	HOCLEAR REACTOR COME CLANG- INC SYSTEM	BANCE DIDICATING SYSTEM	APPARATUS POR CAMETRO MICLEAR MACTOR FUEL ELEMENTS	OKIDATION RESISTANT COATENESS ON HIDSIDA
3,212,691	3,213,002	3,213,032	3,213,161	3,213,162	5,2113,163	3,312,379	3,214,633	3, 215, 569	-	3,215,606	3,215,607	3,215,606	3,216,101	3,216,174	3,216,806

J. J. Cadwell, San Diego, Calif. F. A. Kappelmann and B. S. Weaver, Cak Ridge, Tenn.	H. P. Furth, Berkeley, Calif. and M. M. Rosembluth, San Diego, Calif.	and L. M. Finch, Pasco, Wash.	A. J. M. Elitchcock, Dorchester, Dorest, England	W. R. Martin, and J. R. Weir, Oak Ridge, Tenn.	L. E. Mills, Normal, Ill, J. J. Hauth, C. H. Blocenter and D. F. Cerroll, Richland, Wash.	P. Kerre, Bethesda, Nd.	J. T. Clarke, Stony Brook, M.Y. L. J. Carr, R. D. Hiebert, E. R. Ballinger, Los Alamos, M.	Mex., P. S. Barris and J. R. Larkins, Santa Pe, M. Mex.	H. P. Sprackien, Castro Valley, Calif.	L. T. Jones, Mismisburg, Ohio, P. A. Tucker and L. J. Wittenberg, Dayton, Ohio	R. A. Dandl, Oak Ridge, Tenn, and R. J. Kerr, Knorville, Tenn.	W. S. Pappas, Oak Ridge, Tenn.	R. E. Hayne and J. B. Oven, Boulder, Colo.
DISCONNECTABLE TURE COUPLING NETHOD FOR SERVATING AMERICIAN AND TEXTAME LANTAMEDE RAME EARTHS AND TITALIAN	APPARATUS FOR MICRETICALLY CONFINING A FLASOR	MOCLEAR REACTOR CORE MAY DO NEARS FOR WAYING INCLINATION OF WIEL ASSEMBLES	HETHOD AND APPARATUS FOR COM- TROLLING MEACTIVITY OF NUCLEAR REACTOR	METAL-CLAS PER ELSONT WITH COPPER POIL INTERLATER	FUEL SIZHENT FOR A NUCLEAR REACTOR	COMPARTMENTED NUCLEAR REACTOR FUEL NOD AND METROD OF MAKING	SUMBACE AREA MEASUREMENTS RADIATION DOS IMETER SYSTEM USING CADMIDM-BACKED COPPER	FOIL	WICLEAR RADIATION DETECTOR WITH CONTROL CRID	RADIDACTIVE RADIATION ENIT- TING SOUNCES	DEVICE HAVING HICH-CHADIENT MARKING COSP CEDPETRY	TEMPERATURE COMPRISATED COMPENSATION PRESSURE AMALYZER	GLOVE CHANCING APPLIANTUS AND METHOD
3,229,996	3,230,145	3,230,146	3,230,147	3,230,150	3,230,151	3,230,152	3,230,364		3,230,372	3,230,374	3,230,418	3,234,780	3,237,821
E. P. Furth, Serkeley, Calif.	B. A. wiebb, Granada Bills, Calif.	E. A. Stisser, Fleasanton, Calif.	S. Yerbovich, Los Angeles, Calif. R. M. Gaham, Glastonburv, Conn.	W. P. Erieve, Altadema, Calif.	J. S. Yampolsky, San Diego, Calif. J. T. Green, Orlando, Fls.	W. E. Schult, Michland, 418h.	D. E. Davemport, Palo Alto, Calif.	N. E. Clark and T. A. Cens, Oak Ridge, Tenn.	J. V. Franck and P. S. Broadhead Lafayette, Calif.	I. Alexeff, Oak Ridge, Tenn. and R. V. Meidigh, Know-ille, Tenn.	A. Barel, Frantagham, Mass. G. F. Jacky, R. Soremson, D. W.	Shannon, Richland, Mash. and W. E. Tragert, Scotla, M.Y.	N. Milleron, Berkeley, Calif. and L. L. Levenson, Livermore, Calif.
FLASM, COSFINDEST APPARATUS EPOLOTING A PELICAL MACHELIC FIELD CONFIGURATION	NUCLEAR ESPECIAN CONTROL PRANS. HETHOD OF PREVENTING CAREALI- CATION OF FULL ELEMENT CLAB- BIDG WEIALS BY GRANIUM C 4- BIDG FUELS.	METHOD FOR PRODUCING HTDMO- STATEC PRESSURE	SOUTH ACTUATION SECURISM SOULD STATE DETECTION STSTEM	WITH LOW NOISE AMPLIFICATION FISSEM ELECTRIC GENERATOR	TURNOC INCIDENTOR	CISSOLUTION OF NUCLEAR ALIGNINGS-BASE FUEL	POLYCELLULAR TUBILLA CRID SYNCTURES AND METHOD OF NANDEACTURE	DISSOUTION OF LINCONTUM IN TITABLE EQUIPMENT	PROTOSENSITIVE LIGHT REAM LOCATION DREVRAKITON HEVICE	PRODUCTION OF COMPLETELY TOKIZED PLASON	DATA PROCESSING METHOD OF DETERMINING THE	ADMESTICAL OF METALL PLATIBLE	SLE CATPER PECHNISH DIPPUSION PUMP
3,219,534	3,219,541	3,219,736	3,219,776	3,219,840	3,221,967	3,227,125	3,222,144	3,222,289	3,222,526	3,222,559	3,222,670		3,224,665

T. W. Sibery, Oriods, Calif.	F. P. Pebbo, E. F. Levey, and H. A. Pohto, Oak Eidge, Tenm.	E. I. Setiste, G. S. Manke, Los Alemos, N.Mex. and D. J. Murphy, Tucson, Arix.	A. C. Meeley, Oak Ridge, Term.	D. H. Cipson, Pleasant Hill, Call.	M. G. Anderson, Oak Ridge, Tenn.	T. H. Siddall, Aiben, S.C.	C. F. Coleman, Oak fidge, Tenn.	E. G. Bohlmann, Concord, Teen. and E. L. Compere, Enerville, Tenn.	W. V. Coeddel, Powery, Califf.	E. Lustman and R. K. McGeary, Pittsburgh, Pa.	E. W. Compbell, D. H. Imboff, R. T. Pennington and J. M. Roberts, San Jose, Calif.	R. F. Bunshah, Livermore, Calif., and R. S. Juntz, Hayward, Calif.	A. R. Porssan, Denville, Calif., J. R. Gaskill, Livermore, Calif.,	Walnut Creek, Calif. G. M. Grover, Los Alamos, N.Nex.
HIGH WALTACE RESIT TOR STREETS. HISTORY DEPOYED CORONA SHIELD-	PRESSURE INTENSIFIER	PEPPERON BONDENG OF TUNCSTER TO TUNCSTER	HIGHLY DENSIFIED AND MACHIN- VALE TUNGSTEN-INCH-HICKEL ALLOT	EXPLOSIVE LINE MAVE CENERATOR	SYSTEM FOR SERVANTING PARTI- CULATE SUBSTANCES BY REGRIENT- THG GRADIENTS	NETHOD FOR EXTRACTING LANTSA- NEDES AND ACTINEDES	RECOVERY OF URANITH AND LIR- COMBIN FROM AQUEOUS FLUORIDE SOLUTIONS	METHOD OF REMOVING BYTHROCEN PROM LIQUID ALEALI METALS	CARBON-COATED METAL CARBIDE FARTICLES FOR NICLEAR REACTOR	כרים יוויסג נתבר בוצופטעני	STAM PRODUCING REACTOR AND ITEMS FOR	METHOD AND APPARATUS FOR DRINGETON MELTING	THERMYLOMINISCENT RADIATION BOSIDETER AND INTEGRAL HEATER	FARCAGE REACTOR
3,239,751	3,241,188	3,241,230	3,241,955	3,242,863	3,243,105	3,243,254	3,243,257	3,243,280	3,243,349	3,243,350	3,243,351	3,243,493	3,243,590	3,243,613
T. A. Cena, Oak Hidge, Tenn.	M. J. McMelly, San Jose, Calif.	J. C. McGuire, White Rock, W.Nex. and D. D. Bowdish, Espanols, N. Nex.	R. C. Levelll and H. L. Anderson, Albuquerque, E.Nex.	J. V. Leeds, Pittsburgh, Ps.	A. L. Grelich, Livermore, Calif. and M. R. McCraven, Palo Alto, Calif.		G. G. Kelley, Kingston, Tenn. and O. B. Norgan, Oak Ridge, Tenn.	M. S. Foster, Naperville, Ill. and C. E. Crouthamel, Glen Ellyn, Ill.	J. J. Memitin, Oak Eldge, Tenn.	T. R. Fields, Evenitos, Ill., K. B. Martin, Jolist, Ill., S. G. Pandre Elected, Ill., S. G.	Petkovich, Osimont, Ps. K. D. Coughren, Sichland, Mash.	C. A. Javorsky, Los Alamos, M. Naz. and J. S. Hove, Albary, Ore.	O. M. Carlson, P. A. Schmidt and L. L. Sharwood, Ames, Ious	E. Moberts, Rockwood, Tern, and J. W. Wachter, Oak Hidge, Tenn,
SOUDDING OF UNMERTHE TOO SECURING TO SECURING THE SECURIN	FUEL FLEMENT ASSENGLY FOR A MICLEAR REACTOR	HICH TEPERATURE FURNCE	EXPLOSIVE ACTUATED SWITCH IN WHICH CONTACT PIERCES NOW - COMBUCTOR	AUTOWATIC CORRECTION OF MUCLEAR INSTRUMENT TO COM- PERSATE FOR NEUTRON ATTENDATION	ROCCEDIZED PROPOSODISE TUSE WITH SEMICYLIMMETOL CATHODE AND ANDRE OF FLOREATED CROSS-	SECTION	HICH OUTFUT DEOPLASMATRON- TYPE ION SOURCE	RECENERATION OF ENG CELLS HAVING MOLITER METAL ELECTRORES AND A FUSED SALT ELECTROLITE	APPARATUS FOR MEASURING THE DIELECTRIC CONSTANT OF OIL UTILIZING AN ACTIVE FILTER CONFLED TO A TUNED OSCILLATOR	SEAL	SLP CAN ARAMEDIENT	COLUMNIUM NALIDIG ALLOY	DUCTLE START CREDITION	NETHOD FOR DETERMINING THE MEDITAGE FULL ABOVE THE 0-238 THERESHOLD ENERGY LEVIL
3,238,014	3,239,105	3,238,288	3,238,321	3,238,370	3,238,406		3,238,414	3,238,487	3,238,453	3,238,574	3,238,797	3,239,334	3,239,335	3,239,667

THE ALIDERSH- C. E. Cuthrie, Oak Ridge, Tenn.	108T SQUACK Q. A. Merns, Orinds, Calif., C. C. Cox, Walnut Creek, Calif., T. C. Innes, Pullerton, Calif. and W.	L. P. Hatch, Brockhaven, W.Y., J.		ZAR MEAGUN G. H. Comley, Pittsburgh, Pa. WTMCL SYSTEM A. J. M. Hitchcock, Lymn, England	ING PLASMA R. P. Post, Walnut Creek, Calif.	4	C. B. Jeace, Canaga Park, Calif. CTION LIMEAR G. A. Loew, Palo Alto, Calif.	APPROPRIATE IVERS	C INCHIASED R. F. Levey, Oak Ridge, Tenn.	IC ACID J. M. Behmitt, Oak Ridge, Tenn.	CUTION AND R. D. Weed, Michigani, Wash,		D 12AD WINE J. A. Peters, T. A. Wiley, Overland Perk, No. and J. H. Lymch, Garden City, No.	PACTURED P. Nofmann, Upper Baveria,	
METHOD FOR PROCESSING ALIMENNA- CONTAINING MUCLEAR FUELS	NAMOSECOND PULSE LICHT SOUNCE	PARTICLE PILITER	-	MUCLEAR SEACTOR CONTROL SYSTEM	NETHOD OF CONTROLLING PLASM STABILITY	NEUTRON COLLDATOR VITH SUB- PACE COATDAS TO SUPPRESS NEUTRON REFLECTOR	POARE CENERATOR PRASING OF MELTISECTION LINEAR ACCELERATORS BY ALTERNATELY	TURNING ON AND GPP APPROPRIATE BLECTHOMORETIC DRIVERS	NETAL SHAPES NAVING INCREASED COMPRESSIVE STRENGTHS	HONOALKYL PHOSPHORIC ACTS EXTRACTION OF CESTUR AND STRONTINN VALUES	DECONTAMINATION SOLUTION AND METHOD	EXTRACTION AND PURIFICATION OF CHLOROPHYLL	ELECTRICAL COIL AND LEAD VIEW ASSEMBLY	APPARATUS FOR HANGPACTURING	DENTES OF VINCENTAIN
3,251,645	3,232,046	1,152,171		3,235,086	3,257,284	3,257,560	1,257,577		3,257,688	3,236,315	3,238,429	3,236,467	3,138,728	3,139,470	
T. A. Melton, Oak Ridge, Tenn.	T. J. Ready, H. D. Levis, Los Alamos, M. Nex. and J. E. Sockett, Española, New Nex.	A. E. Smith, Clinton, Twens.	R. L. Huddleston, Encyvilla, Tenn.	A. P. Levey, Gal Ridge, Tenn.	P. B. Archibaid, Pleasanton, Calif.	W. B. Lewis, Idabo Palls, Idabo	E. L. Assect, Sants Ps. N.Max., L. J. Brown and B. D. Nichols, Les Alemos, N.Mex.	T. A. Viley, Overland Park, fan.	E. P. Lavey, Galt Ridge, Tonn.	G. E. Armentrout, Corveille, Ore., J. B. Nove, Albeny, Ore. and C. A. Jeworsky, Les Alemos, M.Mar.	J. M. Biocher, Columbus, Chis	N. J. Buber, Vaehaviten, N.J.	E. J. Pethus, Chicago, Ill. and A. D. Tavebeugh, Minadale, Ill.	T. Hikido, Sunnyvale, Calif.	
TWO-GAS MASER OF DOROVED EFFICIENCY AND POWER LEVEL	POWDERS MOLLING OF TUNGSTERS AND ITS ALLOTS	ELECTRICAL LEAD-TENEDGH POR PRESSURE INTENSIVER	ELECTRICAL LEAD-TERCUCH FOR PRESSURE INTERESTER	ELECTRICAL LEAD-THRONGH FOR PRESSURE DYTERS D'IRA	WATER SAMPLER	CALOR DETER CAPABLE OF SEPARATE- LY DETERMINENCE NUMBER DESIGN ASSORTION AND CANNA ENERGY AS- SORTION	HETHOD AND MEANS FOR DEMONDING THE ELECTRON EMISSION PROW A REPARCHONY CONDUCTION MATERIAL	POTTED ELECTRICAL COIL AND PATRALITIE LEAD WHIRE ASSISSALY	CAS-SOLIDS REACTION SYSTEM	TANTALIN BRACING ALLOY	NOCLEAR FUEL PARTICLES COATED VITS MIXTURE OF PYROATIO CARROW AND SILECOM CARRIED	PAST ACTING SWITCH UTILIZING A VAPORIZABLE WIRE	PRESALACTION OF ACTIVISM NONO- CARRESTOR	ELECTION MAN DONE NOTIFIED	
3,243,715	3,245,114	3,245,118	3,245,119	3,245,120	3,245,288	3,246,153	3,246,196	3,246,272	3,248,395	3,249,429	3,249,509	3,245,800	3,250,590	3,250,642	

						N	OTICES				
J. E. Ayer, Jolist, Ill., and F. E. Soppet, Calumet Park, Ill. F. T. Calabretta, Fort Chester, M.T.	S. L. Commerford, Sairley, N.Y. C. C. C. Ripley, San Jose, Cilli.	M. Steinberg, Bustington Station,	N.I., G. Farber, Elmont, S.I., and D. H. Corfusky, Center Noriches, N.T. R. E. Menoll, Idaho Falls,	Idano R. L. Chaney, San Leandro,	C. W. Keilboltz, Khorville, Tenn. and C. C. Webster, Oak Ridge, Tenn.	L. E. Norse, Oak Ridge, Tenn., K. H. McCorkie, Fowell, Tenn. and C. E. Schilling, Mourrille, Tenn.	E. S. Bettis, Knowville, Tenn.	W. E. Winsche, Bellport, M.Y.	F. R. Eushbrook, Eichland, Wash.	C. K. Been, Kaperville, III.	E. S. Gordon, Orinda, Calif.
METROD AND APPARATUS FOR VIBRATORY COMPACTION ABAPTER WALVE	STABILIZED DODRE LABELED 2'-DEDIY-5-100CURIDINE EMBOSSED CLABOING FUEL ELEMENT AND MARKET STATESTER	FOR NUCLEAR FUEL ELDENT	QUICK OFERING LATCE AND	ANTI-VIEWLING LOCK FOR MUCLEAR REACTOR SAFETY ROD LEVEL CONTROL, FOR CATOCENIC	METHOD FOR AMALYZING INEXT GAS FOR PRESENCE OF OXYGEN OR WATER VAPOR	METHOD OF PREPARING HIGH DENSITY, CONTACTIBLE URANIBN DIDRIDE PARTICLES	FUSED-SALT-PUBLED, MULTEN METAL-COOLED POWER SKEEDER REACTION SYSTEM	ORDERED SED NOCLEAR PUEL ASSEMBLIES	FISSTON-PRODUCTS-CONTAINING COMPOSITION AND PROCESS OF	PROCESS OF MALES A SINTERED, HONOCENER'S DISPESSION OF NUCLEAR FUEL AND BURNABLE POINCY	HICH ENERGY ACCLLERATOR INCRET STRUCTURE HICH CURRENT REVERSING SWITCH
3,261,378	3,261,747	3,261,757	3,261,760	3,262,280	3,262,756	3,262,760	3,262,856	3,262,659	3,262,885	3,265,006	3,263,136
N. M. Mopkins, R. S. Kingeley, Ekchland, Sah, and E. L. Commer, Takins, Wash. G. F. Garlick, Emmewick, Wash.	E. S. Beckjord, Pittsburgh, Pa. F. J. Pellows and R. R. Hobson, Sam Jose, Calif.	S. N. Magner and G. K. Ford, Emorrille, Tenn.	J. I. Wagner, Numitagion, M.Y., R. M. Singer, D. G.Schweitzer, East Islip, N.Y. and M. M. Katz, Port Jefferben, N.Y.	L. F. Estch, Brookhaven, R.Y., J. J. Redlly, Zellport, R.Y. end E. Wirsing, Mattituck, S.Y.	R. L. Beestand and C. F. Leitten, Oak Eidge, Tenn.	J. B. Nime, Royal Cak, Mich., R. S. Miller, Brookfald, Wis. R. G. Palmer, Idaho Falls, Idaho, W. R. Jeme, Grosse Point, Mich.,	S. Berringer, Rustburg, Va., J. K. Davidson and C. E. Klotz, Silver Spring, Md.	W. A. Kalk, Powey, Calif. and J. F. Petersen, San Diego, Calif.	E. D. Skipley, Exerville, Tena., O. C. Youts and A. M. Veach, Oak Eidge, Tenn.	L. S. Hall, Livermore, Calif.	G. S. Raymor, Manorwille, M.Y.
DISSOLUTION OF PLATORIEM DOROW-12 BETA DECAY NEWTHON	THESACTORIC SECURAL REACTOR	APPARATUS AND METHOD FOR TRANSPERRING OAUGUTS INTO A CONDITIONED ATMOSPHERK	PESSILE PUEL RECOVERY PROCESS	PYROLYTIC CARBON DECLADDING	SINGLE STEP PROCESS FOR PREZNATION OF URANIUM PLOCEINE FROM URANIUM NEXA- FLUCCIOR	WICELAR REACTORS		REFLECTOR AND COCLANT SEALING STRUCTURE FOR GAS COOLED NUCLEAR REACTOR	CALUTROR WITH PEANS FOR REPUCING LOW FREQUENCY RADID FREQUENCY SICHALS	NETHOD FOR ESTERSIBLY EX-	ISOKINETIC SAMPLING APPARATUS
3,259,473 -	3,259,766	3,260,381	3,260,466	3,260,574	3,260,575	3,260,649		3,260,650	3,260,844	3,260,869	3,261,199

C. W. Park, Oakland, Calif.	R. L. Muddleston, Knowille, Tenn. and R. P. Levey, Ock Ridge, Tenn.	R. G. Bradeen, Castro Valley, Califf.	D. R. Vilder, and C. D. Virkus, Ames, love	J. C. McGuire, White Bock, N. Mex.	P. Greebler, San Jose, Calif.	R. E. Wood, Idaho Palls, Idaho and W. E. Miceath, Loveland, Obdo	P. Greebler, San Jose, Calif.	L. W. From, Cien Illyn, Ill. and C. M. Kelber, Weston, Ill.	A. K. Masteri, Aides, Chill.	R. L. Davis, Albuquerque, M. Nex.	J. R. Craig and D. J. Sasmor, Albuquereus, E. Hen.	D. Annarount, Verthoost, Ill, and N. M. Lavitz, Deliveod, III.	L. D. F. King, Santa Fe, N. Hex.	J. W. Flowers, Calmerville, Ph.
COMPACT RICH VOLTAGE TANKS- POWER MAYING MORE UNITORN	PRESSUR VESSEL SEAL	CUSHIONING MEDIA	COTINATION-RESISTANT COAT- ING ON ARTICLES OF YTHIDM NETAL	CARSIDE DEPOSITION ON TANTALIN	DOPPLER CORPY DCIENT CONTROL. FOR MUCLEAN REACTORS OFSE- ATING IN THE PAST OR DITER-	MEDIATE SELFTON DEBAT SPECTRON GAS-COOLED, WATER MORENTED NEUTRONIC REACTOR	HODGRATOR REFLECTOR PAST REUTRON REACTOR CORE	MECLEAR REACTOR	NITHONORIES ACID	DIDDE MAT CONVERTER MOS-INDUCTIVE ELECTRIC	MESISTOR. CAS CENTRALIDED DEVICE WITH DRITATOR INSULATED WANS	REMOVAL OF STADIOLESS-STREET CLANDINGS FROM NICCEAR FUEL	RADIATION REACTOR	HOULDY OAS ARC DISCHARE DEVICE UTILIZING AR OFF- CENTER CATHORE
3,265,998	3,266,095	3,266,790	3,266,928	3,766,948	3,266,998	3,266,999	3,257,001	3,267,002	And and	3,287,406	3,267,672	3,288,303	3,268,410	3,268,738
B. Remervani, Verimont, Ill., R. M. Lavitz, Sailvood, Ill.,	and A. A. Jonke, Elaboret, Ill. C. R. Schmitt, Oak Midge, Tenn.	J. J. Beginbel, Eichland, Mah.	E. A. Wistone, Downers Grove, III.	T. Beskin, Chicago, Ill. and F. D. Shalek, Champaign, Ill.	R. L. Hamner, Oak Ridge, Tenn. and W. H. Smith, Roowville, Tenn.	B. J. Court, Delmont, Calif. R. B. Nasl, Momio Perk, Calif. R. S. Mailory, Palo Alto, Calif.	J. C. Beynos, North Hollywood,	V. M. Bovis, Eingston, Tenn. and E. E. Palmer, Enorville,	I. E. Rass, Baltimore, Md.	W. R. Baber, Orinda, Calif. and R. Balbach, Berkeley, Calif.	M. Steinberg, Huntington Station, M.Y., J. Progensky, East Islip, M.T. and M. Treser, Sayside, M.T.	W. E. Clart, Oak Midge, Tesm. C. L. Fittgereid and G. B. Bavis, Kingston, Tesm.	M. A. Raald, Swarthmore, Fa.	
RESIDENT OF ACTIVISE SALIBES	MOVEL METAL MICHOSPIERES AND THEIR MANDAMINES	POCL-TIPE SUCIALS ISACTOR VITY DOSOVED LIQUID SHIRLS	MILLI-SENTION CONTROL MOD WITH THEIRMAL EXPANSION JOINT	WALTER HONOSTE DE-UBARTON- HONOPHOSPHIDE SOLIE SOLUTIONS	METHOD OF NOVIDED ACTUADE ONLINE CEL. PARTICLES	FLECTRON LINEAR ACCELEATOR PRAS DES SETTORS DIVOLUTES ALTERNATES TURNING ON AND TURNING OFF THE ELECTROMAG- MITTO DAILYRE OF THE SECTION WATHOUT DAILYRE OF THE SECTION	NACIONALIS ESCONDES NAMBOUT POR FLANMETER	PRECISION LATES	UNDERWIER BEACON	APPARATUS FOR PRODUCING AND PURIDYING PLASH	NETSON OF PRODUCING INTER-	ADDITION OF LITHIDA VALUES IN CONVERSION OF PISSION-PRODUCT WASTES TO A GLASS-LITE SOLID FOR DISPOSAL	HICKOMAYE PLASMA DEBSITY	MASSIMINAT STREET
3,264,070	3,254,073	9,254,189	3,284,192	3,264,723	3,264,379	3,264,568	3,264,871	3,264,912	3,265,152	3,265,583	3,265,602	3,265,627	3,265,967	-

***************************************	M with hit	J. D. Kaser, Richland, Wash.	A. M. Veach and O. C. Tonte, Oak Ridge, Tenn.	W. J. Whitfield, Albuquerque, N.Mex.	M. R. Borch, Livermore, Calf. and R. S. Juntz, Bayward, Calif.	R. E. Thoma, M. R. Bennett and J. W. Ullmann, Oak Ridge, Tenn.	J. D. Gabor, Western Springs,	III. and M. G. Beerns, Banover, Gernany	R. E. Salomon, North Hills, Pe.	L. B. Zumwalt, San Diego, Calif.	P. Greebler, K. M. Borst, T. E. Olich and B. Welfe, San Jose, Calif.	S. L. Koutz and R. F. Turner, San Diego, Calif.	J. C. Carter, Elaborst, Ill. and M. B. Rodin, Park Forest, Ill.	D. G. Karraker, W. C. Perkins, Aiken, S.C.	G. I. Cathers, Rocrville, Tenn. and J. C. Mailen, Oak Ridge, Tenn.	J. O. Betterton, Oak Ridge, Tenn., G. D. Knelp, Concord, Mass., D. S. Easton and J. O. Scarbeough,	Lenoir City, Tenn.	C. H. Bloomster and J. J. Hauth, Richland, Wash.
The second are proposed for a second	AND ETERLANSDIAMINETETRACETIC ACID	ANDIDACTIVE MASTE DEPOSAL USING COLDMANTE	IOM-PRODUCING MICHAELS FOR CALUTHORS	L'HUMR PLOW AIR BOOD APPARATUS	WICELIN FURNICE WINDOW	METHOD FOR PROCESSING ALIMENTAL-COSTAINING MUCLEAR	PUELS PUELS PLUIDIZATION OF SINTEMBLE	rpes	PHOTOCELL WITH COOL DIG NEANS	DAPUNCED FUEL ELEMENT	FUEL NOS DESIGN	WEL ELDON	NETHOD AND STSTEM FOR SUPPLY- ING THRUST TO A SPACE VEHICLE	RECOVERY OF ACTIVIDE PROM BALITY DESRIS	CONTINUOSS-CAS-PRASE VOLA- TILITY PROCESS	METHOD POR INCERASING THE CRITICAL CURRENT DENSITY OF KARD SUPERCONDUCTING ALLOYS	AND THE INPROVED PRODUCTS THEREOF	MUCLEAR FUEL ELDEST INCOR- PARATING MELICAL FISSIONABLE WIRE
		3,272,756	3,272,983	3,273,323	3,273,557	3,273,973	3,273,974		3,274,030	3,274,066	3,274,067	3,274,068	3,274,770	3,275,421	3,275,422	3,275,480		3,275,525
E. Stollister (decessed)	G. C. Boores, for allow pality		V. M. Bovis, Kingston, Tenn.	A. K. Postma, Corval is, Ore.	H. M. Barr and L. A. Sundquist, Beltimore, Md.	L. W. Ducote, Castro Valley, Calif.	R. J. McCracken, Port Jefferson, N.Y.	J. S. Enighton, Joliet, Ill., and R. K. Steumenberg,	Maperville, Ill.	J. P. Ramond, Knowyille, Tenn. ; and K. K. Sinks, Sombay, Indis.	L. C. Noderer, Windsor, Cons.	P. Fortzecue, La Jolla, Calif. and D. Micoll, Del Nar, Calif.	P. H. Moore, Kennewick, Mash.	P. J. Webb, Berkenire, England	V. N. Hansen, Thousand Cake, Calif.	E. E. Resh, Livingston, M.J.	G. L. Miller, Sabylon, N.Y. and S. E. Magner, Brookhaven, N.Y.	E. C. Pitzer, C. R. Pountain, Scotis, N.Y. and J. R. Ciaranello.
BROACH FOR CURVED CRAPHITE	PASSAGES NETTOD AND APPARATUS FOR	ACCURATE AND COSTROLLED COOL INC	SYSTEM FOR COORDINATING THE OPERATIONS OF A TOOL WITH A PATTERN	NOVIDE WALL ELITREATOR	METHOD OF MAKING HOLLOW, SPEZRICAL UO, PARTICLES	TDE-SPACED MILITHIE WILST CENTRATOR	HYDRAULICALLY ACTUATED LOAD CARRYING AFFARATUS	PURIFICATION OF MULEM SALES		NETHOD FOR FORMLATING MASTER ALLOY COMPOSITIONS FOR USE IN DISPERSION HANDENED COMPACTS	LIGUID HETAL PAST SREEDER REACTOR	NEUTRONIC MEACTOR WITH IMPROVED RELEASE MECHANISM SETWERN CONTINUES, SOD AND	POLONIUM RECOVERY	CKNOSTATS	POUNDS OF URANITH AND ASSESSED.	RADIOISOTOPE MEATED THERMO- ELECTRIC CENERATOR POWER FLATERING SYSTEM	SENIDONDOCTOR DETECTOR NETHER	PROCESS FOR THE REMOVAL OF METAL CORROSTON PROPOCTS
3,266,976	3,269,458		3,269,232	3,269,536	3,270,098	3,270,287	3,270,828	3,271,133		3,271,142	3,271,260	3,271,264	3,271,320	3,271,966	3,272,601	3,272,658	3,277,668	3,272,738

L. E. McNeese and C. D. Scott, Oak Ridge, Tenn.	P. P. Turner and H. C. Brassfield, Cincinnati, Ohio	G. A. Loss, Palasite, Calif.		B. S. Brinner, Los Alemos, M. Nex.		H, M. Graham end P. L. Fhelps, Livermore, Calif.	F. A. Kirsten, Lafayette, Calif., and B. C. Maxife, Geneva.	Switzerland J. A. Lerry and B. L. Mance, Los Alamos, N. Mex.	A. H. Ballard and R. Hendricks, Oak Ridge, Tenn.	E. Sullivan, Chicago, III. and T. E. Sullivan, Evergreen Park, III.	1, Henins and J. Marshall, Los Alamos, New Mex.	R. J. Hemmig, Eichland, Wash.	V. E. Hazel, Sen Jose, Calif. and J. J. Zeller, Los Angles, Calif.	J. A. Leary and L. J. Mullins,	Los Alamos, N.Nex. C. D. Jeffries, Berekeley, Calif.	J. T. Mark, Lancaster, Ps.	F. H. Case and E. H. Acree, Oak Eidze, Tenn.	
PUBL RECYCLE SYSTEM IN A MOLTEN SALT REACTOR	DRIBITION OF CHAIN CROWTH IN SINTERED BENYLLIUN ONIDE	BOOLES BARTO-POSDITIVITY BARTICLE	SERRATOR	WING ANGLE OPTION, SYSTEM MAYING A TELECENTRIC STOP	AND AN INTERFERENCE FILTER	METHOD OF TEMPERATURE CYCLING PERMOGLECTRIC CERANICS THRONGS A TEMPERATURE BANCE NELOW THE CURIE POLITY THEREOF	ACOUSTIC SPARK CHANGER	METHOD OF PREFACING PLATORIUM MOMENTAINE	MICH TEMPERATURE ISOSTATIC PRESSING	SEAL FOR A CONTROL ROD APPALIT US	THERMAL EXPANSION DOUGSE ACTUATOR DE PLASMA JET APPARATUS	NUMBELING THE EFFECTS OF PLUE GRADIENT IN A NEACTOR	WICLEAR PUEL NOS ASSENSIY	NETHED FOR PRODUCING ULTRA-	70	HICH WICHW WLIVES	PRODUCTION OF 1311	
3,278,367	3,278,454	1.010 100	on faints	3,278,752		3,278,769	3,278,692	3,279,898	3,279,917	3,280,002	3,281,324	3,281,325	3,281,328	3,281,338	3,281,661	3,282,276	3,282,655	
J. R. Lundquist and R. W. Stromatt, Richland, Wash.	J. M. Caller, Albuquetque, N.Mex.	J. A. Phillips and A. E. Schoffeld, Los Alamos, N.Nex.	F. L. Morre, Knorville, Team.		R. H. Rainey, Knoaville, Tenn.		D. V. Brite and K. R. Sump, Richland, Wash,	E. F. Antel, S. J. Ostrom, Ememewick, Math., C. D. Stobs, and F. D. Quinlan, Hichland, Wesh.	J. S. Burst, Knoxville, Tenn., W. A. Pfeiler, Nortis, Tenn., M. Sanders and E. F. Cambon,	C. Orime and F. C. Namersand, E. Petersburg, Fa.	K. M. Bohlander, West Chester, Ohlo, E. S. Punston, Hamilton,	Ohio	R. Overstreat, Berkeley, Calif.	F. S. Purkdoll, Summyvale, Calif.	J. R. Flanary, Enorville, Tenn., J. H. Goode, Sweetwater, Tenn. and G. C. Wall, Sydney, Australia	A. Lenard, Treaton, N.J., R. M.	Bernstein, Princeton, K.J.	J. E. French, Escondido, Calif., K. G. Steyer and G. L. Wesman, San Diego, Calif.
METHOD OF PREPARING URANIUM FOR NICKEL PLATING	CONXINE CASES TERMINATING NEARS	HICH Q POWER CAPACITOR	HETHOD FOR SEPARATING MEMBERS	OF ACT DAIDS AND LANDSANIES. GROUPS	METHOD OF SELECTIVELY REDUCING	CALIFORNIM AND EDSTEINIDA SEPARATION	CENTER MITHIALS AND PROCESS OF MACING	DOWN NUCLEAR REACTORS	RADIDACTIVITY SHEAR SAMPLING HETHOD AND APPARATUS USING DATA PROCESSING CARDS	ELECTRON CON AND SOCIET.	METHOD OF CLAIDING VITRIUM MASS	ALLOT HTDRIDES	PINATION OF RABINACIPE CONTAMINATION IN SOIL	EXPLOSIVELY MELEASABLE BOLT	PYRORIDISCUSS OF CARIDE- TYPE NUCLEAR FUEL	HEGATIVE "V" STELLARATOR		DELAT DED SYSTEM FOR FUR- IFICATION OF MICLEAR FUEL, SLEDGET FUNCE STREAM
3,275,534	3,275,737	3,275,916	3,276,849		3,276,850	3,276,861	3,276,867	3,276,969	3,277,301	3,277,326	3,277,565		3,277,607	3,277,766	3,278,278	3,278,384	-	3,276,386

J. E. Lang, L. G. Misnyi, Schmectady, M.Y. and R. A. Prombatle, Scotle, M.Y.	J. B. Noe, Albaquerque, M.Mex.	E. C. Burst, Stoughton, Wis.	H. H. VanTuyl, Richland, Wash.	P. A. Nelson, Wheston, Ill. and M. G. Chasamov, Homewood, Ill.	H. H. Klepfer, Pleasenton, Calif.	W. B. Loevenstein, Elmhurst, III.	G. E. Gorker, Cincinnati, Obio	R. E. Thoma, Oak Ridge, Tenn.	W. L. Lyon, Fremont, Calif.	D. R. Henley, Newark, Calif.	N. L. Heinz, Mountain View, Chif.		P. C. Ramersand, I. Pittsburgh, Pa.	C. E. Frantz, F. F. Vleell, S. R. Astley, Etchland, Mash.	E. P. Babeley, Knorville, Tenn.	and H. P. Barringer, Oak Ridge, Term.
FUEL ELEMENT CONTAINE A WECHANICALLY CONTRESSIBLE MANDELL	MILLIPLE SATTERY CHARGING AND DISCRANGING CINCUIT MEANS	TITAKINA PRIDER FOR A VACUUM FUND	PROCESS FOR SEPARATING STRONTIUM VALUES FROM RARE EARTH METAL VALUES	NUCLEAR REACTOR FUEL MATERIAL AND A METHOD OF PRETARING THE SAME	ZIRCOHIUM BUSE NUCLEAR REACTOR ALLOY	LANCE PAST MUCLEAR REACTOR	BOILING WATER NEUTRONIC REACTOR	PAST REACTOR PUEL	PREPARATION OF A FILTERALL CO-PRECEDITATE OF FUTOWILM AND URASIDA	SENSOR FOR DETECTING TRANS-	DISC-LOADED WAYBURIDE TUNING	MACHINE WHICH AUTOWATICALLY TUNES (TOCESSIVE CAVITIES BY INDESTING WAVECUING WALL	ATTENNATOR FOR SUFFRESSING RICH-ORDE CATTY RESONANCES RAVING A TRANSVERSE ELECTRIC COMPONENT	EXPLOSION APPARATES FOR FLANCING A TURE	LIQUID CENTRIPUCE COME	
3,285,826	3,286,152	3,286,820	3,287,084	3,287,093	3,287,111	3,287,224	3,287,228	3,287,278	3,267,279	3,287,518	3,287,672		3,287,673	3,287,947	3,288,360	
O. L. Kruger, Westmont, Ill. J. B. Boser, Evenston, Ill. and B. J. Wrons, Jolist, Ill.	J. B. Enighton, Joliet, Ill. and R. K. Steumenberg, Esperville, Ill.	A. R. Jamrog, Chicago, 111.	J. L. Long, and R. D. Schweikhardt, Arvada, Colo.	T. M. Batter and R. H. McParland, Livermore, Calif.	J. Piecher, Lisle, III.	J. E. Enighton, Joliet, Ill., and R. K. Steumenberg, Naperville,	III.	J. M. Googin and L. M. McLaughlin, On! Ridge, Tenn.	M. C. Urey, Chicago, III, (Rights to AEC), K. Cohen, New York, N.T. and F. T. Barr, Commit w. 1	(Rights to Esso Research Erg. Co.)	E. V. Murphree, Sumit, N.J.	R. E. Riley and K. V. Davidson, Los Alamos, N.Nex.	Q. A. Kerrus, Orinds, Calif., M. Birk, Reboroth, Israel, and T. A. Buramaker, San Pablo, Calif.	E. Moses, Park Forest, III, and R. L. Martin, LeGrange, III.	G. T. Damby, Weding River, M.Y. and J. W. Jackson, Medford, M.Y.	J. E. Brubaker, Pittsburgh, Fa.
PREFACATION OF PLATORISM NONOPHOS- SULFIDE AND PLATORISM NONOPHOS- PRIDE	PLUTOWIDM VALUES	- APPARATUS POR CONTROLLING THE ATHCSPHERE OVER A NUCLEAR	REACTOR. ELECTROREFISHES OF PLUTONIUM.	COMBINATION THAP POPP	PREPARATION OF PLUTONIUM METAAPLUORIDE	SEPARATION OF URANIUM PACH NOSLE AND REPRACTORY NETALS		NETHOD OF PARRICATING ARTICLES FROM POWDERS	PROCESSES OF PRODUCING ENERGY BY NUCLEAR FIRSTON		NU SAR POWER CENERATESC AP URATUS	ULTRAHICS FURITY CARSIDE FORMATION	FULSE TIDE DELAY CINCUIT EMPLOYING TUNNEL DIDGE AND SWITCH COMBINATION GATED IN RESPONSE TO MARP INPUT	NETHOD OF DISCHARGING A CLOUD	QUADRIENCE MACNET WITH REDUCED LATERAL DIPERSION	NUCLEAR FUEL MODELE
3,282,656	3,282,681	3,282,793	3,282,806	3,283,479	3,784,173	3,284,190		3,284,195	3,284,305		3,284,309	3,284,550	3,284,642	3,284,686	3,284,744	3,285,821

P. K. Ludwig, South Bend, Ind. and J. T. D'Alessio Buenos Aires, Argentina	C. Wohlberg and J. R. Markham, Los Alamos, N. Mex.	R. E. Messick, Aiken, S.C.	P. Fortescue, Sance Fe, Calif.	K. A. Trickett, M. T. Siamed, San Diego, Celif. and G. J. Malek, Powey, Calif.	G. S. Allison, Richland, Wesh.	R. N. Navkins, E. L. Albenesius, Aikee, S.C. and C. C. Raskell, N. Augusta, S.C.	J. C. Marshell and H. G. Smith, Cincinnati, Ohio	J. A. McCann, Clenville, N.Y.	F. A. Coss, Jr. Albuquerque, H.Mex.	C. E. Staley, Kingston, Term.	C. S. Wakusiek, Cincinnati, Ohio		5. Jaye, Solama Beach, Calif. and D. H. Lee, Jr. Del Mar, Calif.	W. P. Schulz, San Brumo, Calif.	A. H. Dextor, Aiken, S.C. and A. C. Lepsley, Charlotteville,	1
MERCHANNETTED FIRED ELECTRODE ELECTRIC ARC CENTRATOR	PROCESS FOR WELDERG NICHEL TO NIOSIUM	AIR COOLING URIT FOR PRO- TECTIVE CLOTHEDIS AND THE LIKE	PUB. ELDENT	FUEL ELDENT	NETHOD OF FARECATING A MELTICHANNEL STOCIALS FURE, ELENENT	METHOD AND APPARATUS FOR TRACING FLUID PLOW TREGUCK FORDUS MEDIA	MAKING ALLOYS FOR TURGSTES AND MOLYEORSUM	VISRATION DETECTION DEVICE	MALTI-SIDHAL EXPLOSIVE DETORATOR	SHAFT SEAL FOR LIQUID CENTRIFUCES	STEAM-CORDOSION-RESISTANT IRON-CHRONOTON-ALLONINON-	TTRETON ALLOYS AND PROCESS FOR HACING SAME	HUCLEAR NEACTOR FUEL	APPARATUS FOR COATING SUB- STRATES BY CATHRODE SPUTIER-	INC PROTOREUTRON MENSITOR FOR DE- TECTING MEACTOR FUEL BLANGERT	Annes
3,290,613	3,290,773	3,291,126	3,291,698	3,291,699	3,291,870	3,291,997	3,292,255	3,292,426	3,292,537	3,292,937	3,293,007		3,293,135	3,293,168	3,293,434	
W. J. Werner, Clinton, Tenn. M. C. McHwein, Nontaville, Als. and J. P. Hammond, Knoxville, Tenn.	E. Ellak, Bavertown, Pa.		L. E. Horse, Oak Ridge, Tenn.	L. E. Mills, Kennevick, Wash. and R. F. Doolen, Richland, Wash.	J. P. Steinhaus, Livermore, Calif. and T. O. Passell, Palo Alto, Calif.	C. J. Borkowski, R. J. Pox, Oak Ridge, Tenn. and A. M. R. Ferrari, Sam Carlos, Argentias	B. Vural, Princeton, M.J.		S. D. Clinton, A. T. Kleinsteuber, Ook Ridge, Teen., P. A. Hass, Rocaville, Teen. and L. J. Kirth, Boulder, Colo.	F. S. Coulding, Lafayette, Calif.		U. E. WINET, CIRCINSTI, WILD	J. M. Blocher, N. P. Browning and R. W. Dayton, Columbus, Ohio	J. A. Chopp, Denver, Colo.	N. S. Bokkari, Lahore, Pakistan, V. V. Verbinski, T. A. Love and R. E. Zedler, Oak Ridge, Tenn.	D. F. Skinner, T. W. Wolf and W. I. Wade, Livermore, Calif.
PREPARATION OF URANIUM ALDNINGDES UALS AND UALG.S	POR CHANGING CRITICAL CON-	PIGURATION OF NUCLEAR PUBL. MASS	METSCENCE PREPARATION OF URANIA SOLS	CRAPATTE VELDING	PLASM, PARTICLE SEPARATION AND AND ANALYZER RAVING A CRID STRUCTURE CONSISTING OF LINEAR TURKLAR PORTIONS	SOUTHOUT INSENSITIVE PRO- PORTIONAL COUNTER HAVING A REALIDE SOUNCE COUNDECT- TED TO A WIRE ANDRE	SOCKEDENT PEE HORD-	MATE ANTIONNE STREET	PROCESS FOR PREPARING ONLINE GEL MICROSPHENES FROM SOLS	PETROD AND APPARATUS POR	Deverties in sentionactors	WITH BUDGATT FULL OR REPLECTOR CONTROL ASSERLY	COATED NUCLEAR REACTOR FUEL PARTICLE OF UG. AND METHOD OF NAKENG THE SAME	WILDER MANS AND NETHER	PAST MEUTING STRUCTROMETER UTILIZING SITHERM CONTAINED FILMS	PORT APPARATUS POR EX- TRACTING NATERIALS PROM RADIOACTIVE ENCLOSURES
3,288,571	3,286,662		1,268,717	3,288,979	3,288,993	3,288,999	3,289,122		3,290,122	3,290,179		3,290,221	3,290,223	3,290,477	3,290,500	3,290,502

									NEW YORK	A COLUMN					
W. S. Peck, Pacoima, Calif. R.S. Duncsa, Canoga Park, Calif. and A. C. Williams, Chairworth, Calif.	W. E. Frout, H. J. Groh, Alken, S.C. and E. R. Russell, Columbia, S.C.	J. V. Woolsey and H. I. Bowers Los Alsmos, N.Mex.	M. H. Studier, Downers Grows, III.	M. A. Schultz, Pittsburgh, Fa., V. G. Shav, Latrobe, Pa. and I. Bluestein, Pitcairn, Pa.	M. Yarmovsky, Livingston, N.J.	F. B. Quinlan, Richland, Wash,	E. C. Fitter, Scotia, M.Y.	P. S. Kennedy, El Cerrito, Calif.	H. C. Francke, Oak Ridge, Tenn.	Tenn.	S. J. Wheatley, Clinton, Tenn. and H. K. McCaleb, Bantaville,	C. S. Wakusick, Cincinnati, Ohio		J. C. Bokros, J. Chin, R. J. Frice, San Biego, Calif. and W. V. Goeddel, Powey, Calif.	T. A. Gens, Oak Ridge, Tenn.
CALANDRIA CORE POR SCRIBN CRAPHITE REACTOR	REMOVAL OF CESTON PROM AQUEOUS SOULTIONS BY 1000 EXCHANCE	WELDING JIC	METHOD OF OPERATIDE AN TON SOURCE FOR A TIDE OF FLIGHT MASS SPECTROMETRA	SHUTDOWN REACTIVITY METER FOR MEASURING THP SUBCRITICAL REACTIVITY IN A MACLEAR REACTOR	PLURAL WOLLACE RECUEATOR DIS- CHARGE BEYLCES IN A UNITARY STRUCTURE	COLD-WORKTWC LUBRICATION	NEUTRAL METAL CLEARING COM- POSITIONS COMTANING NEWA- ZINE AND A POLYCARSOFILAMING ACID	HETHOD AND APPARATUS FOR MONITOR- INC DIFFUSION FORP BACK STEZH- INC IN THE THROAT OF SAID FUGG.	WELLIGHT RESPONSIVE DISPENSER		MACHINE FOR DISPENSING THEN ELONGATED OBJECTS	EMBRITHLEMENT-RESISTANT INCH-	ALLOYS	CLES FOR WICLEAR APPLICATIONS	AND POPULAR STABILIZED ALKALING SOLUTIONS THEREOF
3,256,065	3,236,123	3,296,411	3,296,434	3,296,440	3,296,487	3,296,844	3,297,580	3,297,872	3,298,452		3,283,2	3,296,826	1 704 011	2 200 001 1	3,436,337
R. S. Dike and E. L. Komp, Los Alamos, M.Nex. R.G. Cilliland, Oak Ridge, Team.	R. D. Kacham, Redison Heights,		E. Wirsing, Mattituck and L. F. Hatch, Brookhaves, M.Y.	M. J. Steindler, Park Porest, III., A. A. Jonke, Elmborst, III., R. K. Steunscherg, M. D. Admas, Naperville, III. at R. C. Vogel, Himsdale, III.	F. L. Moore, Knoxville, Tenn.		N. Swesklad, Bantington, N.Y., N. W. Secker, Shoreham, N.Y. and M. W. Maresca (deceased)	W. D. Kingery, Lexington, Mass. and R. A. Mickelsen, Bellevoe, Mash.	W. Precht, Towson, Md.	H. N. Barr and L. A. Sundquist, Baltimore, Md.	J. P. Samood, Knorville, Tenn.	R. L. Kastom, Osk Lave, III. and G. E. Yurka, Berwyn, III.	A. C. Neeley and W. J. Yaggi, Oak Ridge, Tenn.	H. Belofaky, Verons, N.J.	R. Wildgoose, Derby, England
LOW THEOCTANCE CAPACITOR AND SWITCHING ASSEMBLY BRAZING ALLOYS FOR REPRACTORY		PROCESS FOR DECLADODIC 218-	CONTUM FROM ZIRCONTUM CLAD NUCLEAR FUEL ELEMENTS	METSOO OF SEPARATING URANIIM AND PLATORIUM	METHOD FOR REMAYING LANTH- ANIMES AND TRIVALENT ACTINIDES PROM ACHIOCORS NITRATE SOLU-	TIONS	CONTROLLED UNCANDES OF GEOMETRICALLY CADERED PACKED BEDS	AMORPHOUS IINC OXIDE SEMI- COMMUNION AND NETHOD OF MAKING	THERMOELECTRIC CONVENTER COMPOSITION	HOLLOW, SPEERICAL DO, NOCLEAR FUEL PARTICLÉS	WAPOR PRASE SIDITERING PROCESS	MACHET COIL HAVING COOLING MEANS	SINTERING FURNICE	POWER PLATTENING DEVICE FOR SADIOISOTOFE SEATED THEIND- ELECTRIC CENERATOR	NUCLEAR REACTORS
3,293,741		3,294,492		3,294,493	3,.34,494		3,294,645	3,294,660	3,294,668	3,294,698	3,294,877	3,295,082	3,295,844	3,296,032	3,296,081

P. O. Bobo, Pittsburgh, Ps. and F. V. Lasy, Irvin, Ps.	H. L. Libby, Etchissé, Wash. sod C. E. Wandiing, Esssewick, Wash.	D. C. Thomas, Oak Eidge, Tem.		M. E. Bersett, Oak Eidge, Teme, and G. I. Cathers, Eboryfile, Tem.	J. P. Legowiti, Plainfield, Ill.	F. M. Class, Ock Eidge, Tenn. M. Yarmovsky, Livingston, S.3.		E. A. Beth, hom, Gernary	O. C. Touts, Oak Eidge, Temm.	R. E. Burdick, Chatrworth, Calif. and S. E. Bocklin, Pacific Palisades, Calif.	H. Lats, Port Jefferson, M.T.	G. M. Grover, Los Alames, M.Mer., C. A. Busse, Lavaco, Traly and	R. J. Caron, Ispra, Italy	A. T. Volcaskis, Barrece, E.J.
ELECTRICAL APPARATUS	EDOY CURRENT MONOMICTIVE TRITING DEVICE USING AN OSCILLOSCOPE TO IDENTIFY AND LOCATE RESCRARITIES IN A TEST PIECE	TURBULENCE PROPOTER POR INCREASED MEAT AND MASS TRANSPER PROPOSES OF PROCESS	CESTIM, CRAIN AND RARE RAKES WALUES FROM RADIOACTIVE SOLU- TIONS	NETHOD FOR DISSOLVING STAIN- LESS STELL MEMORRS	MUCLEAR-POWER SEA-HATER CONVERSION FLANT	MENTRON MONITOR AND MUST DETECTOR VOCTAGE RECEITATOR TOTAL VITE	INTECTAL PURAL SERIES DIS- CHARGE DEVICE	STRONG POCUSING OF RICH EMERGY PARTICLES IN A STR- CHEOTEON STORAGE RING	TON PROPULSION	THE MODEL & CTRIC CONVENTER HOUSE	METENDO OF STABILIZING A PLUIDIZZO RED ISLNG A GLOW	DISCHARGE CAPILLARY INSERT FOR MEAT THREE AND PROCESS FOR MARI-	PACTURING SUCR DISERTS	HOLLAN MACHUN COME ASSESSMENT INDEXING MECHANISH POR IMMADIATING PACHAGES
3,302,097	3,302,105	3,302,701	out to the same to	3,303,006	3,303,098	3,303,343		3,303,426	3,303,650	3,304,206	3,304,249	3,305,005		3,305,683
E. C. Pitzer, Scotis, N.Y.	G. D. Davis, Kingston, Tenn., E. J. Frederick, J. M. Holmes, Enzwille, Tenn. and E. W. Godbee, Oak Ridge, Tenn.	R. W. Gates, Menlo Park, Calif.	R. L. Pilloton and R. L. Hammer, Oak Hidge, Tenn.	R. B. Jerman, Milwaukee, Wis., P. F. Santoro, Eartford, Conn., and M. F. vankessel, Whestor, Nd.	H. P. Eubenk, Princeton, S.J.	S. W. Thomas, Livermore, Calif.		C. F. Laitten, R. A. Potter, Oak Eidge, Tenn. and R. E. McDonald, Clinton, Tenn.	M. J. deBruin, New South Wales, Australia	D. W. Mueller, Los Alemos, N.Mex.	W. R. Collither and R. A. Johnston, Paducah, Ky.	E. L. Bestry, Clinton, Tenn. and H. Beutler, Oak Eldge, Tenn.	L. A. Bray, Eichland, Wash.	G. K. Grover, Les Alemes, M.Mex., J. Bobdensky, Laveno, Italy and C. A. Buses, Tamio, Italy
	CELS CONCENTRATION AND CONTAINMENT OF RADIMACTIVITY FROM RADIO- ACTIVE WASTE SOLUTIONS IN ASPMALT	KINIDAL GAS PRODUCING LOW DETONATION BATE EXPLOSIVE AND DETONATION SOURCES	PREPARATION OF ACTINIDE METAL CARSIDE MICROSPRERES	IN CORE SAWLING AND STRAY- DEVICE FOR NOCLEAR REACTORS	HEANS FOR MEASURING PLASHA DENSITY BY RESONANT CHARGE TRANSPER WITH A BEAN OF	WIDE-KING COURT RATE WITH UTILIZING PLYAL COURT BATE	FIER	METHOD OF PREPARING OXIDES FOR NEUTRONIC REACTOR CONTROL	METHOD FOR BONDING SERVILIUM ONLINE TO GRAPHITE	PRESTRESSED CONCRETE CON- TAINMENT VESSEL	PREPARATION OF GRANIUM-NIO- SIUM ALLOYS SY CO-REDUCTION	METHOD FOR PREPARING ACTINIDE OKIDE FUEL PARTICLES AND ARTICLE THEREOF	ZIRCONIUN REMONAL PROM STRONTIUM-80	HUCLEAR REACTOR VITH THERSTONIC CONTRAIRS
3,298,960	3,298,961	1119,661,6	3,300,284	3,300,368	3,300,640	3,300,719		3,300,848	3,300,852	1,301,041	3,301,667	3,301,763	3,301,789	3,302,042

3-14-67

R. E. Mueller J. C. Marshall Cincinnati, Ohio

BEAZING ALLOTS FOR TANTALEM

348,921

3,309,180

3-14-67

C. C. NrPheeters R. Tercovich Los Alamos, N.Mex. J. C. McGuire White Rock, N. Mex.

SOLID ELECTROLYTE
RESCHDOMENICAL CELL

422,472

3,309,233

S. Jaye
D. H. Lee, Jr.
Solama Beach, Calif.
J. R. Triplett
Rancho Senta Fe, Calif.

NUCLEAR REACTOR AND METHOD OF FUEL MANAGE-MENT THEMSFOR

456,583

3,309,277

L. J. Belog Irvin, Ps.

PRESSURE-TURE MOTION REL ASSEMBLY VITH THEMAL BAFFLE

421,133

3,309,280

3-14-67

Columbia, S.C.
H. E. Proof
H. J. Croh
Aften, S.C.
G. H. Hatt
Austin, Texas

THORING OXIDE ON THOUTH-UNEWIND OXIDE WITH MACHES-TOM OXIDE

498,172

3,309,323

94	643	99-9-6	3-7-67	19-1-6		3-7-67	3-7-67
80. 2	PATE	96	2 2			7	
	DIVIDATIONS	F. E. Ros Avos Lake, Ohlo	S. A. Colgate Livernore, Calif. N. H. deSevers	Salt Lake City, Utah H. F. Dumlap Comcord, Temn. E. C. Evens W. G. S. Fort H. A. McFridel	Ook Edge, Tenn. W. W. Smith Encknood, Tenn.	E. D. Jordan Emsington, Md. C. L. Cownn Spekville, Md.	R. L. Shaum Albuquerque, N.Mex.
PATENTS FOR LICENS DIG	INTESTION	GASEDUS VORTEX REACTOR FOR A BOCKET NOTOR	ACTIAN BOCKET REACTOR APPRANTES FOR CONTROL.	LING THE FLOW OF SOLIDS CONTROL SYSTEM FOR MIG- NETIC SUSPENSION OF CENTRIFUCE ROTORS		HIDDER EXPLOSIVES DE- TECTOR UTILIZING LONG- LIVED ANDIOACTIVE TRACER MATERIAL	LINE VOLLAGE LIMITER
	SER. 100.	353,635	345,814	402,665		353,643	345,816
Wel. XVII	May 30, 1967 PATEMT NO.	3,270,496	3,307,357	3,307,884		3,308,796	3,308,373
E. E. Cerroll, Sethel Park, Pa.	L. Silvernam, Dover, Mass.	H. P. berringer, Oak Ridge, Tem.	C. Laverick, Downers Grove, III., M. B. Poss, Pittsburgh, Pa. and G. M. Lobell, Oak Forest, III.	L. Pussell, Concord, Mass., E. E. Orier, Newton Center, Mass. (All rights to AEC), J. W. Babb, Delmont, Mass. and M. P. Mims, (decessed) (Cole license to Eaythen)	L. R. Vancott, San Jose, Calif.	F. W. Heilson, R. A. Graham and N. B. Benedick, Alboquerque, H. Mex.	
TIME EXPANDER FOR MULTICHARMEL AMALTIZES	100.00	DAMPED REARING FOR CENTRI- FUGES	SUPERCONDUCTURE CALLE	CAN OPERATED MICHELLE SATTCH	COLLET FOR VORIPIECE IN ELECTRIC VELDING	PIEGELECTRIC STRESS CAGE	
3,305,785	3,306,008	3,306,681 .	3,306,972	3,307,005	3,307,016	3,307,052	

19-1-1	19-4-9	4-11-67 1f.	4-11-67	4.19.67		4-18-67		4-18-67	4-18-67	4-18-67	10-C-+	4-25-67		4-25-67
W. A. Bell, Jr. A. M. Vesch Cak Eidge, Tenn.	E. C. Porges J. A. Sjorkland Evenston, Ill.	South President, Calif. G. Burnet, Jr.	W. A. Bell, Jr. R. M. Ennis, Jr.	Oak Eldge, Tenn.	C. 7. Leitten, Jr. Oak Eldge, Tenn.	J. H. Kleinpeter Sichland, Wash.	G. Jansen, Jr. Kennewick, Wash.	J. K. Core R. Seegniller Los Alemos, N. Mex.	E. D. Jordan Emaington, Md.	J. A. Sosenthal Lafayette, Calif.	E. E. Wiswall Brookhaven, K.Y. J. J. Redlly, Jr. Bellport, K.Y.	E. L. Carwin 4- Lo. Altos Hills, Calif. D. R. Welz	J. Jurov Palo, Calif.	J. C. Mershall J. A. McCurty
ISOTORE RECEIVER FOR A CALETAON SLVING AN OIL RESERVOIR IN ITS COLLEC-TION FOCKET	DEVICE FOR SUPERSCULATION OF AN AMELIFIER-DISCRIMINA- TOR CIRCUIT	NONTHOUSE OF PEAK FEAT FLIX	VAPOR FRED SYSTEM FOR EASY VAPORIZABLE MAIE-	RIALS TO THE AND CRAMBER OF CALLIFFORS	TUE SELLS	ELECTROLITIC DEPOSI- TION OF ACTINIDE OUIDES		NETHOD OF ETCHING TAN- TALINA AND NIOSIUM FOR ELECTROPIATING	DETERMINING THE TELCE- HESS OF A FURNACE LINING BY MEANS OF NEUTRON ACTI- WATION	PULSE MOUNTAINS CINCUIT	STURING REDIGIOUS	HIGH DREAT PARTICLE BEAN DUNE AND HEAT SIDE		PRODUCT AND PROCESS
548,805	367,905	179,413	358,137	200 300	400,100	326,303		320,967	402,369	373,893	538,220	443,725		346,361
3,312,849	3,312,908	3,313,156	3,313,935		Chiles to	3,314,865		3,314,867	3,315,076	3,315,181	3,315,479	3,315,732		3,316,069
3-21-67	3-21-67	3-21-67	3-21-67	3-21-67	3-21-67		3-21-67	3-21-67	4-4-67	4-4-67	4-4-67		19-9-9	
L. Same Seaford, N.Y. G. T. Pepino, Jr. Westburg, N.Y.	N. Hilleron Berkeley, Calif.	M. H. Lloyd Onk Ridge, Tenn.	W. E. Winsche Bellport, N.Y.	C. R. Wilke El Cerrito, Calif.	M, J, Kelly	Oak Hidge, Tenm.	R. H. Miller Noustain View, Calif	R. A. Kilpstrick Orinds, Calif.	C, K. Banson M. E. Wadsworth Salt Lake City, Utah R. M. Horton Pullman, Wash.	J. C. Marshall E. G. Smith Cincinnett, Ohio	D. E. Koshlend, Jr. Bellport, N.Y. G. Latham	Y. D. Karkhanis Philadelphis, Pa.	G. S. Brown Mamaroneck, N.Y.	C. Levin Lendon, England
DENTING ALLOY AND METHOD OF BRAZING WITH SAME	SUBJECT AND SACISTIFEANING PORUS DIAFACEAN FILTER FOR WACHEN SYSTEM	PRESAMATION OF PLATOSTON OXIDE SOLAND CALCINED MICHOSPHERES	SPECTRAL SHIFT REACTOR.	METHOD OF ISOLATING A RESULFUTIRID FOR USE IN REMOVING SULFAIES FROM	DISTILLATION METROD FOR	SALT PERCON FUELS	LOAD LEVELER FOR PULSE MODULATOR	CONNECTION SYSTEM FOR MACHEL EXCITATION COLLS	METHUD AND CATALIST FOR CONDINING HYDIOCER AND CACYGEN IN INSETTER CATHER SURRIES	BRAZING ALLOYS FOR TURGSTER AND HOLYROENCH	METHOD OF INTRODUCING A COLORED CROUP SENSITIVE TO pH CANAGES INTO ENZYMES	STIES SEALING VIES A- SECRETAR	6-HERCAPTOFURINE 3-M- OKIDE	
2,554	447,588	486,572	\$22,333	414,481	510,477		276,670	411,774	230,766	395,967	544,324		166'901	
3,309,767	3,310,227	3,310,386	3,310,473	3,310,477	3,310,500		3,310,684	3,310,764	3,312,526	3,312,539	3,312,599		3,312,702	

2-9-67	5-9-67	5-9-67	5-16-67		5-16-67	5-16-67 Calif.	2-16-67	5-16-67	5-16-67	5-16-67	5-16-67	5-16-67	5	5-23-67
W. Generit Pittsburgh, Pa.	M. G. Strams Park Forest, Ill.	C. C. Dama Alemo, Calif.	B. Sprissler Jopps, Mc.	E. P. Pesse Baltimore, Md.	E. D. Scother F. A. Skasik Albuquerque, S. Nex	S. Strensberg Woodland Hills, Ca	R. F. Stoops Raleigh, M.C.	W. C. Rohlman Cincinnati, Obio	T. A. Gens Tonavenda, H.Y.	F. K. Crosby Moraga, Calif. W. E. Eston	Sensington, Calif. J. L. Estrisse Princeton, N.J.	R. J. Fox C. J. Borkowski	Oak Ridge, Tenn.	L. R. Vencott Sen Jose, Calif.
ADJUSTALLE VIDE BANCE MADIATION LEVEL ALARM	UNIVIDATOR CIRCUIT FOR DETECTING THE TIDE OCCUR- REMCE OF INFUT PULSES THERETO	PROCESS AND APPARATUS POR PRODUCING PURIFIED PAST PARTICLE BRANS	TUBILAR EXTRISION DRIVE		WORK-FIECE STABILIZING MEANS	CONVERSION OF U ₃ 0 ₈ TO	LIQUID PERASE EXTRUSION FOR FORMING REPRACTORY MATERIALS	TUNCSTEN-COMUN THERSO- COUPLE AND ELEMENT THEMS- OF	OPENLY POROUS REFACCIORY NUCLEAR FUEL MICROSPESSES AND METHOD OF PREPARATION	PULID FLOW INTERLOCK AND INDICATOR	HIGH COULUMS SPARE GAP SWITCH VITH SERIES HAG- NET COLLS FOR ROTATING	STREAM - MARKER DIDDS FOR DETECTING RIGH ENERGY	PARTICLES AND METHOD FOR PREPARING SAME	SPIRAL RIS TO A BOOT
467,602	384,270	383,264	438,138		440,964	409,305	456,009	435,102	582,200	455,354	452,950	292,290		381,602
3,319,066	3,319,063	3,319,118	3,319,351		3,319,497	3,320,034	3,320,056	3,320,098	3,320,179	3,320,381	3,320,478	3,320,495		3,320,186
4-25-67	5-2-67	5-2-67	5-2-67	5-2-67	5-2-67	5-2-67	2-9-67	2-9-67	5-9-67	5-9-67	5-9-67	5-9-67	5-9-67	
J. G. Hirschberg Frinceton, N.J.	1. Brandt Memlo Park, Calif.	J. C. Marshall R. H. Mueller Cincinnati, Obio	E. D. Nelson Grandview, Wash.	E. Butter Chicago, Ill.	L, t, Ducote Castro Valley, Calif.	E. S. Brodsky Amandale, Va.	E. E. Duff Livermore, Calif.	E. A. Wilhelm Ames, Ioun J. E. Witte Cincinnati, Obio	W. I. Linlor Mountain View, Calif.	E. S. Orimett Idebo Falls, Idebo	D. E. Cosles White Mareh, Md. L. Frank Baltimore, Md.	E. L. Seestand C. F. Leitten, Jr. Oak Eidge, Tenn.	R. F. Turner D. A. Nehrig	H. I. Leon Del Mar, Calif.
SPOLE FIELD POLARIZING SPECTACHNODOMETIA FOR MANSURING MASS HOTING	DR A FLANCE ALIGNEST AND SUPPORT HYDRAD LIC JACK	NIOSIDH SILICON SEALING ALLOY FOR REFACTORY METALS	HEAT TREATHERST OF FLETONIUM	FUEL ELEMENT ASSEMBLY	HIGH SPEED MEVERSING COUNTER	SELF-CRECKING IONIZA- TION CRUERE TIPE RADIA- TION DETECTOR	SUPERSONIC TEST FACILITY	PHOSPELIE COLLING ON REPRICTORY HETALS	HETHOD FOR DECASSING A WACDUM SYSTEM	PRODUCTION OF ACTINIDE ALINCHIDE IN A FUID- LIED RED	METHOD OF PRODUCING NUCLEAR FUEL ELEMENTS OF STAINLESS SIEEL COATED UO ₂ PARTICLES	NETAL AFTICLES	FUEL ELEMENT	
373,895	536,592	351,873	432,435	293,919	196,877	271,530	388,335	442,218	536,948	572,156	283,126	316,782	462,767	
3,316,412	3,317,186	3,317,288	3,317,355	3,317,398	3,317,716	3,317,823	3,318,144	3,318,246	3,318,512	3,318,670	3,318,695	3,318,724	3,318,779	

3-30-67

R. A. Armer R. E. Beckman Berkeley, Calif.

OPERATIONS TIMING DEVICE

148,644												
3,323,133				•				>	(Figure			The same
5-23-67	3-23-67	5-23-67	5-23-67	5-30-67	5-30-67	5-30-67	5-30-67	5-30-67	5-30-67	5-30-67	5-30-67	2-30-67
W. B. Thomson morehalden Calife.	G. M. Grover E. W. Salad Los Alamos, N. Mox. E. W. Pidd Le Jolls, Calif.	J. A. Phillips J. M. Nather Los Alsmos, N. Hex.	C. E. Miner Walrot Creek, Calif. E. M. Reimers Berkeley, Calif.	R. Bloom Bobart, Australia W. L. Jolly El Certito, Calif.	S. D. Stoddard D. E. Buckolls Les Algnes, N. Mex.	E. H. Hore Zennevick, Wash.	W. E. Johnston Baltimore, Nd. F. W. Lampe State College, Pa.	P. M. Yavorsky Monougahala, Pa.	P. R. Sell C. C. Herris Ouk Ridge, Tenn.	W. I. Smith Palmyra, K.J.	L. Mancebo Livermore, Calif.	G, R. Lambertson Oaklend, Calif.
FUEL ELEMENT FOR A	TERROGLECTRIC CELL AND REACTOR	PLASHA ACCELERATOR HAVING RAPIDLY PULSED COIL POR EXPELLING PLASHA	DOLL PASSACE COLD TRAP	SILLOW PRODUCTION PROCESS	TUNCSTEN SLIP CASTING NGTBOD	PROCESS OF PREPARING AN ADSORDERY	PRODUCTION OF STURALING	EFFICIENT SETA-RAY EMISSION SOURCE FOR TERABLATION AFFLICATIONS	AVERACING LIGHT SENSOR AND RECORDING SYSTEM USING DOUBLE PROTOCELL STEDCTURE	NON-LINGAR END-OF-LING CLIPPER CIRCUIT FOR FULSERS	SERVING SEPTECTION STREET	CHARGE BATICLE EXTRACT- DIG PACIET FOR AN A ACCELEMING
396,341	137,967	388,735	428,261	369,025	288,568	305,899	259,468	392,975	168,897	373,892	336,081	411,775
3,321,378	3,321,646	3,331,664	3,322,330	3,322,503	3,322,536	3,322,563	3,322,660	184'221'0	3,322,954	3,322,975	3,323,000	3,323,068

29/02/9		6/20/67	6/20/67	6/27/67	6/27/67	6/27/67	6/27/67		19/12/9	7/4/67	7/4/67	19/101	7/4/67
R. V. Mondagh 6 Enerville, Tenn. W. L. Stirling	Oak Eldge, Tenn.	E. E. Pechacek of Barkeley, Calif.	A, L, Graffich Livermore, Calif.	M. R. Bennett Oak Rigo, Tenn. G. I. Cathers Enoxville, Tenn.	E. S. Hodge J. H. Peterson Columbus, Ohio	W. V. Conner Boulder, Colo.	J. E. Lombie	Overland Park, Kan. T. V. Hisinger J. J. Shes Emses City, No.	1.50	Gekland, Calif. T. W. Martin Mashville, Tenn.	P. M. Mattor Alboquaque, E.Max,	L. D. LeGrange Sen Diego, Calif.	E. O. Anger Ombiend, Calif.
EMERCETTO ELECTION PLASM. ELABORT		CHARGET CONTROL CIRCUIT	NON-PROTOCHISTYR CRID FOR A FROTOTURE AND PROCESS FOR MALING SAME	METHOD OF SERVATING OF PROM BROWING PLONEINES	PORDUS TUNCSTER NETAL SELPES	PEDGOCTION OF PLITORIDE	ELECTRICAL CARLE		METHOD AND APPARATES FOR ACCELERATING TORS OF ART MASS	ION PROPULSION SYSTEM EMPLOYING LIFE-CYCLE WATER AS A SOUNCE OF	APPEARING CAS APPEARING FOR COATES A CATHODICALLY BASED SUBSTRATE FROM FLASHA OF DWILZED COATING MATERIAL	PROCESS FOR MAKING GRILED SPERSICAL PARTICLES OF GRIDES	STREED POSITION CAMERA FOR DETERMINING THE STATEAL DISTREBUTION OF BADINGTIVE MATERIAL IN A TEST BODY
366,716		340,838	420,837	358,625	645,349	458,800	457,539		407,332	480,214	389,162	493,277	25,43
3,326,769		3,327,127	3,327,152	3,228,132	\$,325,139	3,323,017	3,328,512		3,328,708	3,328,960	3,329,601	3,329,745	3,329,614
1.4	DATE	6/6/67	6/6/67	29/9/9	6/6/67	6/13/67		6/13/67	6/13/67	6/13/67	6/20/67	6/20/67	6/20/67
	DWESTORS	C. H. Allen Pasco, Mach.	L. O. Boddy Westminster, Colo	E. F. Miller Bockville, Mc.	R. J. Briggs Danville, Calif.	A. L. Lotts Enerville, Tenn. E. E. Berton	Oak Eldge, Tenn.	C. I. McVey Cincinnati, Obio N. McConnaughey Lynchburg, Obio	E. Domaier A. J. Vorwald Detroit, Mich.	F. H. Savnda Scotia, N.Y.	J. D. Ebss Clearwater, Fla. L. E. Goodwin Wilmington, Del. T. E. Herold	G. C. Benson Ann Arbor, Mich.	Tpsilanti, Nich. J. E. Roighton 6, Joliet, Illi. Wi Exock Willow Springs, Ill. R. E. Steumenberg Reperville, Ill.
PATRIES FOR LEGISCIES	DWINTION	METHOD FOR BANDLING SHALL ELEMENTS	DEY BOX GLOVE REDAINING HEARS	PROCESS OF PRODUCING RESNITH FOR TURCSTEN- RESNITH ALLOYS BY THE TRAADMATION OF TURKSTEN	DIELECTRIC WALL STABLIT- ZATION OF DITENSE CHARGED PARTICLE SEANS	METHOD FOR MAKING PORDES TARGET PELLETS FOR A SDCLEAR SEACTOR	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRESSURE BONNED CERAMIC- TO-NETAL GRADIENT SEALS	CANCITARES RESPIRO- NETER	HICH A WIRE DISCRIPTION TO WITH A WIRE DYNAMIC BANCE RAVING A WING ANGENT INSPERATURE PAIGE	WITHKOUTC LIQUID LEVEL DEDICATOR	MANDETTER	PROCESS FOR SZPARATING FLATORITH FROM URANITH FROM FISSION PRODUCTS
	SEE. NO.	330,212	442,836	419,272	486,577	238,574		443,116	237,113	922,226	us'as	426,014	542,210
Pol. EPIE August 29, 1967	PATENT NO.	3,323,338	3,323,846	3,324,065	3,334,325	3,324,540		3,324,543	3,324,648	4,325,656	3,326,042	3,326,046	3,126,673

7/25/67	7/25/67	7/25/67	8/17/67	19/11/8	29/1/8	8/17/67	8/8/67	8/8/67	8/8/67	8/8/67	8/15/67	8/12/67	8/15/67	8/22/67		
W. T. Tomifn 7/7 Mountain View, Calif.	F. D. New Elchnerd, Calif.	W. E. Baher Orinda, Calif.	I. E. Crossier Concord, Tena.	L, J. Marek Ville Park, Ill.	J. S. Backinghan Emnewick, Sush.	E, J. Jeasen Livernore, Calif.	8. S. Pitts Arende, Cole. M. A. Thompson Besider Cole	R. L. Diener Fittsburgh, Ps.	W. E. Winsche Ballport, M.Y. M. M. Levins Fort Jefferson, N.	J. G. Moore Clinton, Tenn.	J. P. Gallagher Alboquerque, S.Mer	M. L. Heins Summyvale, Calif.	G. A. Loew Palo Alto, Calif.	G. V. Brynswold Sen Jose, Calif.		
PULSE PORMUND NETWORK PULTAGE REGULATOR	MONETHEAR RESISTANCE CERCUIT FOR TRIPLING IN- PUT SIGNAL PREQUENCY	FULSE CENERATOR WITH STAIDLING WAVE ENERGY STORAGE	HETEOD OF DETERMINED THE PARTICLE SIZE DIS- PRESTICS OF A POURE	PROTECTIVE CONTAINER	STICKLITCH RECOVERT PROCESS	WELNEST TRANSIT SAMP- LING CINCUIT	EDCHEL PLATING	SECTOR REUTRONIC	MESON ESCOR	PEEPARATION OF ACTIVIDE SOLS ST ANGHE EXTRACTION	LINE CUTTER	PAST-CLOSING VACUUM VALVE	CERANIC LOADED SUSCEEN FOR LINEAR ACCELERATORS	CRAPPLING STSTER		
410,335	373,891	402,042	452,433	445,808	185'105	399,940	363,533	989,489	519,162	613,048	490,752	302,706	343,168	493,939		
3,333,120	3,333,180	3,333,205	3,333,473	1,133,721	5,333,919	3,334,306	3,335,027	3,335,060	3,335,361	3,335,095	3,335,493	3,335,998	3,336,495	3,337,257		
	45	15	19		19		159	19.	ts	191		-4 -	19/		167	19/
7/4/67	17/11/67	7/11/67	7/13/67		7/18/67		7/18/67	7/18/67	1/2067	7/18/67	7/18/67		1/25/67		7/25/67	7/25/67
E. J. Rogers Shoreham, H.Y.	R. D. Piper Des Peres, No.	G. Samos Timonium, Nd.	J. L. Stoom Reckrille, Ng. L. L. Leverson	France N. Milleron	W. C. Sobinson	R. L. Seettand C. P. Leftten	W. C. Pritchard Los Almos, N.Nex	T. B. Taylor La Jolla, Calif.	P. A. Eass Roorville, Tem. S. D. Clinton Oak Ridge, Tem.	0. A. Eahl Borthport, N.Y.	E. E. Pachacek Berkeley, Calif.		D. S. Webster Afken, S. C.	M. E. Winsche Ballport, N.T.	E. T. Teatum Berkeley, Calif.	H. M. Reidt Powell, Teas.
MEANS FOR EQUALITIES TWO CUTFUT SIGNALS	RECTROLYTIC REDUCTION OF TRANSICH HEXATLUGATION TO URANITUM NETAL DI PUSED	PREPARATION OF HEAT SOUNCES FOR RADIOISOTOPE HEATED	THE SWELLEGT SIG GENERATORS IN THE STATE OF		ONE-STIP HETHOD OF	SECURITIES DESCRIPTION OF STANDARD OF STANDARDS TO URANITHE	METHOD OF STABILIZING PLITOSTUM DIOXIDS	PRODUCTION OF ISOTOPES PROW THE MODELLAR EX- FLOSIONS	METHOD FOR PREPARING METAL OXIDS MICHOSPEZERS	DESCRIPT NORMED ENGAP- STATED GARM, SQUECE	MATINI REVENSION THE	THEOREM A PACKETIC CORE	CENTRIFOCAL ESTRACTOR		CERCIELE REACTOR AND METSOD	METALS
377,143	586,610	374,859	384,013		591,042		547,033	807,959	504,267	397,346	395,344		407,945		296,145	386,456
3,329,822	3,330,742	3,330,889	3,331,526		3,331,666		3,331,663	3,331,744	3,331,698	3,331,962	3,331,966		3,332,614		3,332,741	3,332,771

9/5/67

IOS CENERATOR BAVING BEAM G. G. Relley

33,399

3,340,425

	19)	191		19/	163		191
19° 4	PATE 9/5/67	19/5/67		9/5/67	19/5/62		19/2/67
	J. A. McGurty	W. C. Hecker Cincinnati, O.	Mol, Beigium A. Francescouf Durnhout, Beigium	J. Schmets Mol-Donk, Belgium W. J. Hulsey	Ouk Eldge, Term. E. S. Eodge	J. E. Peterson Columbus, Ohio M. A. Tassin, Jr. Baton Rouge, La.	J. W. Frazer Livernore, Calif.
PATROTS FOR LECTRISCIES	SEAT EXCENSES UTILIZING	VOCTEX PLOW PROCESS POR THE REPROCES-	SDG OF IRADIATED COPRACT FURLS BY PLUORIDATION	CHARAR STRUCTURE	CAS-PERSONS BONDING		METHOD FOR THE PREPARATION OF M, M-DIFLEORDALICELANINES
1967	33,330	13,633		30,096	35,362		31,385
vol. EVII October 31, 1967	3,339,631	3,340,019		3,340,023	3,340,053		3,340,169
8/22/67	8/12/67	19/62/8	8/29/67	8/29/67		8/29/67	
				8/2	i .	8/7	
R. E. Reed-Hill Coineaville, Fis.	L. Priedman Patchogue, M.T. A. P. Ires	Flainview, N.T. L. Silverman Bover, Mass.	C. D. Pears Birmingham, Ala.	C. E. Johnson Elk Grove, III. E. R. Heinrich	C. E. Crosthanel Glem Ellyn, 111.	P. A. Helson Wheaton, Ill. M. G. Classmov Ecnswood, Ill.	
PROCESS FOR IMPROFIED PROFESSIES OF ZIROSHIM METAL	NASS SPECTROCRAFE TON SOURCE WERELIN A PELSED ARC IS PROUNCED BY	POAN ESCAPSULATION HETHOD OF NOCLEAR REACTOR SAFETY	THE WAL DISULATION	CATHERD ETUBOCES CELL AND METEOD OF SAACING		URANTHE MONOSITRIES- SCOTTEN PASTE NUCLEAR FUEL	
321,883	402,980	268,840	455,016	351,877		557,859	
5,337,372 321,983	3,337,728	3,338,665	3,338,686	3,338,749		3,338,840	

	NOTIC	ES			
	9/12/67	19/17/6	9/12/67	9/12/67	9/12/67
Kingston, Tenn.	B. J. Keeby Idaho Palls, Idaho	C. O. Tarr C. S. Wakustek Cincinnasti, O. R. C. Lover Anchorage, Ty.	S. H. Smiley Oak Eidge, Tenn.	P. D. Anderson 9 P. R. Coronado Livermore, Calif. L. M. Berry Albaquerque, N. Rez.	E. V. Phiers Lafayette, Calif.
STABILIZATION ACCLESATING Kingston, Temm. ELECTRODES	SEPARATION OF UDANTUM PROM UDANTUM DIOXIDE-213CONTUM DIOXIDE MIXTURES	OCIDATION RESISTANT RIGHTH	PRODUCTION OF LOW PARTICLE S. H. Sadley SIZE-BICH SUPERICE AREA METAL Oak Midge, Tenn. WALMOSE	MCTROD OF PREMAING A TRO- URATION ARTICLE FOR A 720- TECTIVE COATING	PROCESS FOR TELATING METALLIC SUPPLIES WITH AN TOWIC MAN
	31,282	24,552	27,754a	18,880	25,866
	3,341,304 · 31,282	3,341,307	3,341,320	3,341,350	3,341,352
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9/26/67	9/26/67	9/26/67		10/3/67	10/3/67	10/3/67	10/3/67	10/3/67	10/3/67	19/5/61	19/01/01	
E. A. Smith Latchworth, Ing.	J. R. Eagus Colden, Colo. D. W. Brite Etchland, Wash.	E. F. Smith J. B. Thompson Idabo Fells, Idabo	J. P. Blewett Ballport, N. Y.	R. M. Singer Neperville, 111.	K. A. Kraus J. S. Johnson A. J. Shor	Oak Eidge, Tem. E. S. Palmer Shortshan, N. T.	A. B. Eberle E. W. Lerner S. Pleinffeld, N.J. L. J. Pinto Sound Stook, N. J.	R. A. Crafg W. Eartford, Com.	J. M. Googia J. M. Napier Ock Ridge, Tenn.	M. E. Scrivner Enoxyllie, Term. J. E. M. van der Lane	E. Patchogue, H.T. W. W. Schuls Richland, Wesh.	
COSTECT, DEVICE FOR SUGGESTS. REACTORS	PARTICATION OF WATERLASS IN BIGS ENGAC-PAIR DENC-	MACHINES MONTOR WITH MACHINES CONFESSATION	STORAGE RIDG	APPARATE POR CONSESSING AND CONTROLLING THE SATS OF CONDENSATION OF AN ELECTRICALLY CONDUCTING LIQUED	EDICIC ACID AS AN ADDITIVE IN A PROCESS OF PORTING A SALF-REJECTING PERSONAL	LIGE SPOT APPARATUS	PROCESS FOR ENCOURTHG BODDS VALUES FROM SCRAP PATERIALS	PROCESS OF MAIDS URANTON MISSORITADE SOCIEM PURE.	METEOD FOR PANDACTURING FOAM CALBON PANDOCTS	PULSE NUMBOUNT DETECTOR	EXTRACTION OF PLOTONION AND NEXTONION PROM AQUEOUS SOCUTIONS	
35,386	33,896	11,250	25,724	21,749	34,051	27,576	29,776	27,010	30,882	39,911	30,460	
3,344,034	3,344,209	3,344,277	3,344,357	3,344,833	3,344,928	3,345,120	3,345,127	9,345,436	3,345,440	31,346,575	3,346,345	
9/12/67	9/19/67	8/13/67	29/61/6	5/19/67	9/25/67	9/26/67	9/26/67	29/32/6		9/26/67	9/26/67	9/26;67
E. S. Sows Westmoot, III.	M. T. Abegg W. S. Lesife Alboquerque, N. Mex.	R. P. Besmond Oak Eidge, Tenn.	E. S. Cordon Orinda, Calif.	E. H. Sheams Stony Brook, H. T.	W. W. Schulz Efchland, Wash.	L. A. Bray Richland, Nash.	E. C. Rosei Costa Nesa, Calif. E. M. Pulrath Berkaley, Calif.	L. J. Amestasia Ediothian, III. P. G. Alfredson	Spiney, Australia M. J. Steindler Park Porest, Ill.	I. W. Enudsen Downers Grove, Ill. H. M. Levitz Bellwood, Ill.	E. J. Van Hyna Oak Leve, 111. J. J. Rusch Francton, 111.	C. E. Banria, Jr. Oak Eidge, Tenn.
APPARATES FOR PRODUCING A BEAM OF ACCELERATED LIQUID	ANTITASH DEVICE	MELISTACE FLASE ENJORATOR	APPARATUS FOR THE ACCELERA- TIONS, STORAGE AND UTILIZA- TIONS OF COUNTER-ROTATION CHARGED PARTICLE SEANS	STREET, BLOE INTENSITY CRACTO PARTICLE INANS	RECOVERT OF ALBEINGN RITINIE PROM AQUEOUS SOLUTIONS	MACTOR FUEL STROUTUM FROM SOLUTIONS AS STROUTUM SULFAIN	DESCRIPTION OF ESPAC- TORT CURPORES	SELECTIVE DECLADING OF SHICKAR PUEL ELEMENTS		CEDATES PERCEIVE PRO- CEDATES FOR PARTICLE-SIZE RESOCCION OF DO ₂	OCCUPATION-RESISTANT SECULION ACTICLS AND PROCESS OF PACING	METHOD FOR DEPOSITING A TUNCSTEM-SHENTIM METAL ALLOT OR A SUBSTRATE
31,314	18,12	27,763	30,339	30,914	30,414	30,411	и,386	33,953		12,999	30,431	и,690
3,341,720	3,342,540	3,342,697	3,343,020	3,343,096	3,343,912	3,343,914	3,343,915	3,343,924		3,343,926	3,343,523	3,343,979

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10/31/67	10/31/67												
E. E. Elindt Encryllle, Tenn.	C. P. Bonilla	W. T. Sha Fittsburgh, Ps.											
ULIMACHIC PLAN DETECTION IN SHALL DIANGER HETAL TUBING	WOLD DETECTION UTILIZING	Section Attisway1108											
31,638	30,973												
3,349,607	3,350,564												
10/10/67		10/10/67	10/10/67	10/17/67	19/11/01	10/11/67	10/11/67	10/11/67	10/17/67	10/24/67	10/24/67	10/24/67	10/31/67
L. Schibarski Banes as Nais, Cerneny M. J. Telwes	Bookingen, Cernany	G. A. Last R. S. Kesper, Jr. Elchland, Wash.	J. L. White Del Nar, Calif. J. M. Fontelandolfo Sam Diego, Calif.	E. J. Sandstrom C. L. Terrell Los Alamos, N. Hex.	D. R. Ahlbeck Worthington, Ohio R. A. Cress Columbus, Ohio	H. O. Banks, Jr. Redondo Beach, Calif. F. T. Teatum L. R. Jones Liftwennore, Calif.	Describer, Calif. M. I. Clark D. D. Bays Emmerick, Wesh. B. Griggs G. F. Jecky Etchland, Wesh.	M. Sanders Dorville, Tenn.	E. J. Jensen Davis, Calif. E. E. Saith Livermore, Calif.	J. A. Coleb Reperville, III.	B. B. Pollock Los Angeles, Calif.	W. J. Wachter Pittsburgh, Ps.	S. E. Fistedis Park, Eidge, Ill.
METHOD FOR MELTING URANITING OKIDS OKIDS		PORMITOR OF SUBMICESS UNANTUM CARSIDE PARTICLES IN METALLIC URANIUM	METHOD OF MAXING REPRAC- TORY PRODUCTS	DEVICE FOR CONSOLIDATING METAL POWDERS	PAST-ACTING CASCADE VALVE	MADIO-ISOTORE TERMO- ELECTRIC AFRAGIUS AND FUEL FORM	AMOUS PRINCISION FOR PLATING STSTER	AIR SAMPLING NETHOD AND APPARATUS	TIPE DITERRAL MEASURE. MERNY UTILIZING A THORE, DIODE SWITCHED BY REFLECTED FULLSS FROM TRANSMISSION LINES	DETERMINATION OF ISOTOPIC CONCENTRATIONS	REPRACTORY NETAL DISPERSION	LONGITUDINAL MOVEMENT MECHANISM	MEACTOR CONTAINERST VESSEL
12,683	-	28,352	32,348	500,82	12,965	S***S	30,439	31,622	31,993	11,321	22,877	30,151	25,369
3,346,346		3,346,673	3,346,681	3,346,914	O,347,135	3,347,711	3,347,768	3,348,044	3,348,141	3,348,447	3,348,943	3,349,304	3,349,524

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11/14/67	11/14/67		11/14/67	11/14/67		11/11/11	11/11/67		11/11/67	11/11/67	as feed lies	The state of the s	13/82/11	11/28/67	11/28/67
R. S. Seigel Scaredale, N. T.	D. M. Helton Clinton, Tenn.	R. C. Wymer Oak Eidge, Tenn.	P. G. Clites Silverton, Oregon	E. M. Johnson Berkeley, Calif.		J. W. Theiring Pittsburgh, Ps.	M. D. Cepkauskas	J. P. Bohlin Wapping, Com.	T. S. Bowmen Berkeley, Calif. P. S. Esamedy	T. S. Mardock San Jose, Calif.		J. J. Vagil Columbus, Ohio	J. L. Cadden D. H. Friar Oak Eidge, Tenn.	P. A. Stenta Sao Jose dos Campos, Sao Peulo, Brazil	R. P. Hamond Oak Efdge, Tenn.
PROCESS FOR PRODUCING 7 R. S. Seigel $\mathbb{H}_2^{O_3}$. II.827 Scaredale, M	RESTRICAL POTENTIAL NETSON POR DESPERSION OF NETAL	OXIDS MICROSPIERES	MELTING AND APPARATUS FOR MELTING METALS SY INDOCTION BEATING	METEOD AND APPRATUS FOR OPTICALLY DETECHNING THE ALLIGHMENT OF PROSECUE PIELDS	EFFECT	STREET, W. Thefring QUARTURETER PLEASURE, P. PLEASURE, P.	ZIED CLOSURE FOR STICLEAR RE-		MACH-STEAMING CONTROL IN A DIFFUSION PROP	STEAM SUPERIEATING HOCLEAR REACTION PLOW	RQUALIZER ALK 124/600 security months on security of	THE REAL PROPERTY AND ADDRESS OF THE PERTY	BENTLIDH FOIL PASSICATION	UNIVORAL TAMES TRANSI- TION MADES.	FLUEAL CONDUCT FLASS FILM EVAPORATOR FOR DISTILLING AND CONDENSING SEA WATER
429,183(60)	(09) (60)		438,435(60)	350,928(60)		323,184(60)	619,135(60)		496,202(60)	626,369(60)	A46 124/601		510,153(60)	363,263(60)	489,443(60)
3,352,646	3,352,950		1,152,991	3,353,097		4,333,444	3,353,566	,	3,353,742	3,354,042	3.3% 200		3,354,538	3,334,685	3,355,364
No. 5	DATE	8/22/67		9/12/67	19/1/11			19/1/11	19/1/11	19/1/11	13/1/11			19/1/11	11/1/67
	INVENTORS	F. E. Bon Awen Labo Oblo	A. F. Lietrke R. E. Eyland Westleke, Okto	R. E. Sevy Woodland Hills, California	D. C. Brater J. Dylatra, Jr.	S. E. Sa'lley Ook Eldge, Term. E. L. Kaufman	Eingston, Tenn.	E. E. HoDonald C. F. Leitten, Jr. Oak Ridge, Tenn.	C. L. Bulton Shorville, Tenn.	L. A. Bray F. P. Roberts Elchlend, Wesh.	E. F. Kneb, Jr.	Pittsburgh, Ps. M. J. Calper	P. H. Jones Fittsburgh, Pr.	G. A. Armentrout B. C. Casp Liversors, Calif.	H. L. Libby Richland, Wash.
PATRICES FOR LICENSING	DWENTION	429,249(60) NUCLEAR ROCKET HOTOR		492,771(60) MUUTAR FLUX IRAP REACTOR	CONTINUES SORPTION- DESCRIPTION SYSTEM AND	economic distriction of the control		MALYBEATH AND TUNCSTER	APPOWATE DIGITAL TOOL- SETT DIG STSTEM	SEPARATION OF CERTIN FROM OTHER BARTIES	SEED-MASSET CONVENTER-			WINDOKLESS HIGH-RESOLUTION SOLID STATE ADIATION 16- THOTOR	CAMPBIOL SULLING DEVICE POR NOIDESTRUCTIVE EDDY CHREST TESTING EQUIPMENT
	SER, NO.	429,249(60)		492,771(60)	546,144(60)			409,620(60)	554, 911(60)	361,629(60)	488,437(60)			846,548	382,348(60)
Vol. IVII	PATENT NO.	3,336,749		3,341,420	3,350,848			3,350,907	3,350,966	3,351,424	4,351,532	5		3,351,758	3,351,852

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12/12/67	12/12/67	12/12/67	12/11/51	12/12/67	12/17/67	a 12/19/67	12/19/67	12/19/67	12/19/67	12/19/67		12/19/67	12/19/67	13/13/67
D. D. Heys	E. Balofsky	R. W. Prils	J. E. Bench San Jose, Calif. M. Colchaber	E. S. Pengeot Oak Ridge, Tess.	J. C. Pig-	C. A. Christianson Southeld, N. Y.	A. E. Ayers Estancia, H. Hex.	H. V. Boenig V. A. Lembertson W. J. Braun H. S. Myers Learington, Ny.	D. G. Thomas Oak Eidge, Tenn.	G. J. Vogel Elmhurst, Ill.	E. L. Carls Glen Ellyn, Ill. W. A. Marphy	Palos Beights, III. D. J. Crouse, Jr. 12/19/67 F. G. Seeley Gat Hides. Tonn	E. L. Leichter 12 Castro Valley, Calif.	A. You'r Else Elshand, 'N.
A07,940(60) RICEEL PLATING PROCESS	THE SPECIAL CONTRACTOR	200	INSTINCTION WARLANCE AND LEACHE WHENTE CHANGES	LIFT-OFF COMPENSATION FOR ELOY CUREDIT TESTERS	PRASE MODILATED SOLID STATE DEVICE		1000	METICOD OF REDUCING INSTRANTS H. V. Scenig IN TURACCO BY CANAM, IERADIA- W. A. Lemberteon H. J. Ersun H. S. Pyers Lexington, Ny.	571,655(60) CONDENSER TURE	LIPTING AN OUNCY CON-		PROCESS FOR SEPARATING RESPECTIVE PROPERTY PROPERTY PROPERTY ACCURATIONS	CONCOSITE STRUCTURAL METAL METAL METAL METAL METAL METAL METAL	RENOVAL OF STRONTIUM 90 PRON HILK WITH CALCIUM PROPERSPANTS, STRONTIUM THEOPERSPANTS, OR HITHER
407,940(60)	415,888(60)	596,016(60)	515,487	355,516(60)	399,413(60)		33	455,019	571,655(60)	547,313(60)		411,167(60)	463,973(60)	604,480(60)
3,357,854	3,357,866	3,357,890	3,358,144	3,358,225	3,358,245	3,358,519	3,338,865	1,133,604	3,358,750	3,358,857		3,359,064	3,359,063	3,339,117
11/28/67		12/5/67	12/5/67	13/5/67	12/5/67	12/5/67	12/5/67	12/5/67	12/5/67		12/5/67	12/5/67	- Constant	i i
S. Hedin	E. Brochne Palo Alto, Calif.	W. W. Becker Shoreham, H. T.	J. F. Lakmer Libermore, Calif. G. E. Zine Danville, Calif.	E. Withsell Masorville, N. Y.	F. E. Bell L. P. Arthur Sam Diego, Celif.	C. E. Ockert Broomall, Fa.	E. L. Zebroski Les Altos, Calif.	J. F. Watson Sam Diego, Celif. W. V. Goeddel Powsy, Celif.	A. B. Meservey R. B. Pitts Oak Eidze, Tenn.	J. D. Sease Encaville, Term.	J. W. Sedlasyer Les Veges, Sevada	W. B. Sampson Ballport, N. T. R. B. Britton Setzuket, N. Y.	Champalgn, III.	Senta Fe, M. Mar. J. S. Coloma B. B. McInteer E. M. Pottee E. S. Bobinson Les Alamos, N. Mer.
HOOLFIED PACKETIC MOMENTUM SLYT THEIRIDING A PAYE OF C.	TYPE MCHETS	GLOVE PORT FOR DRY BOX	METHOD FOR PRODUCING EIGH DENSITY TUNGSTEM INCOUS	394, 091 (60) ANDIOMETRIC FILM	METHOD AND APPARATES FOR CONTAINEDS RADIOACTIVE FLUED	WIEL PRILET FOR NUCLEAR REACTOR	WESTER FREE STREET	FUEL ELDERT COSTADIDE ACTIVATED CARGOS	584,065(60) NETROD OF PARAICATING CERNATC NUCLEAR FUEL PRO- DOCT		402,969(60) WALEAGE STEETING CIRCUIT	507,236(60) QUIDEIPOLE NACHET	HIGH TORONA WINE MOVE	
420, 835 (60)		476,218(60)	623,196(60)	194,091(60)	(60)	595,541(60)	(47,861	631,105(60)	584,065(60)		402,969(60)	507,236(60)	468.654/60)	
3,335,386		3,356,254	3,356,495	3,356,530	3,336,580	3,356,584	3,356,585	3,336,586	3,336,776		3,336,961	3,336,976	3,387,505	

DOC, 903(60) DISTRIBUTED FEMORAL STRIP M. D. CLATK 12/26/67 TRANSMISSION LINE COCILIATOR Albequerque, M. Mar.											
3,360,743 364,933(60)											
L. D. P. King 12/19/67 Sente Fo, H. Max.	I. P. Archur 12/19/67 F. E. Bell Sam Diego, Celif.	J. Kastner 12/19/67 Park Porest, 111. E. Berger Reperville, 111.	V. Perez-Mendes 12/19/67 Berkeley, Calif. J. M. Pfab Menrovis, Calif.	Q. A. Esrus 12/19/67 Orinds, Calif.	F. S. Quinlan 12/26/67 Efchland, Wesh.	D. W. Colvin 12/26/67 Clearwater, Pls.	E. E. McHenry 12/26/67 Oak Edge, Tenn. J. G. Posey Donyille, Tenn.	E. H. Acree 12/26/67 Oak Ridge, Temm. W. G. Istum Lemoir City, Temm.	E. M. Baibeck 12/25/67 Hew York, H. Y. O. A. Enhl Botthport, M. Y.	A. V. Crewe 12/26/67 A. Tokosson D. J. DeCester Argonne, 111.	Q. A. Karns 12/26/67 Ortade, Celff.
628,789(60) LINOID EXCURSION PULSED L. EACTOR S.	590,570(60) NOCLEAR REACTION P	TIVE TESTING METHOD P	499,118(60) MCHINGTRAIGTIVE EXADOTT V POR VIEW SPAK CHANGERS B J J AND J	MON-S LINGSOTTAL PERIODIC O	POR MCHITONING A DEVICE P POR MCHITONING SHIT-DOWN R EDGIZAR ERACTORS	ULTRASONIC MEASUREMENT OF D SOLUTION CONCENTRATION C	DOUGH PRINCES HUNEA-SETTLER R LUGUED-LIQUID EXTRACTION D SYSTEM	435,761(60) BEUTING SOURCE 0	429,185(60) UNIFOUN CANON INNUBRIAL N	456,013(60) HIGH-WEIAGE CENTRATOR A	PAST PULSE CENERATOR WILLING AN ELECTED ERAM O TO CAUSE AN ARC SECULOWS ACROSS THE CAP SECULO OF A OMATAL LIPE CENTER CONDUCTOR
628, 789(60)	580,570(60)	493,598(60)	499,118(60)	496,197(60)	488,291	436,698(60)	425,093(60)		429,185(60)	456,013(60)	459,484(60)
3,359,173	3,359,175	3,359,419	3,359,421	3,359,452	3,359,621	3,359,788	3,360,340	3,360,477	3,360,646	3,360,663	3,360,678

DESTING W. I. Smith 1/9/68 DESTING Palmyra, N. J. THE AND E. Brechma 1/9/68 THE MEANS Pale Alto, Calif.	SOURSOID OF PARRICATING F. S. Quimlan 1/16/68 IINCONTUM-BEARTLING-EVENCTIC Richland, Nash.
	F. S. Quinlan
DIR-TITE THE AND THE HAUS	MECTIC
POWER SCAVENCING DRO'ING CINCUIT FOR A LINE-TITE FULSER COMBINED INSTALLING AND CHROCES CIRCULATING AND CHROCES CIRCULATING AND	SCLENGIN SCLENGIN SCHOOL OF PARSICATING STREET STREET STREET STREET SCHOOL OF
282,182(60)	446,133(60)
3,363,184	3,383,304
8)/2/1	
C. J. Braken, Jr. Orland Perk, III., A. Sather Pleinfield, III. IF. G. Watson	
381,600(60) FULSED MODURATIONTIVE EDUY C. J. Benken, Jr. CURLED TESTING DEVICE USING Orland Park, III. SHIELZED SPECIDES ENCIRCLING A. Sather COILS PRACISION INDEXING POSITIONER P. G. Matson Description Coils	
383,734(60)	
98	
	3,361,960 381,600(60) FULSED NOS CULSENT TE SKITLLEDS COLLS 3,361,963 388,734(60) FRECISION

			120			100		10	2		
2/6/60	2/6/68	2/6/68	2/6/68	2/6/68	2/6/68	2/6/68	2/13/68	2/13/68 Callf.	2/13/68	2/20/68	2/20/68
G. F. Caratace V. P. Elischer El Cerrito, Calif.	R. S. Riley H. Sheinberg Los Alamos, N. Nox	E. L. Heestend C. F. Leitten, Jr. Oak Eidge, Tenn.	W. J. Blaedel Medison, Wis. C. L. Olson Columbus, Obio	L. E. Morse Oak Eidge, Term.	G. L. Miller Westfield, N. J. T. Radeks	A. E. Schoffeld R. O. Bolm	J. L. Guyton Amarillo, Ter. M. A. Thompson Boulder, Colo.	M. A. Bobkin Castro Valley, C. R. Portur Livermore, Cal	H. P. Purth Berkeley, Calif.	N. E. Briggs Oak Eidge, Tem. C. M. Surton G. V. Greens	P. E. Trent Sorris, Tens.
519,393(60) SEMICONDUCTOR LEAD CUTTER	METHOD OF PREVENTING SECRECATION DURING CASTING OF COMPOSITES	MORESON CARSING ANTICLE AND METSON OF PAKING	APPENDETRIC DETENDENTION OF GLECOSE	EXTRACTION METHOD FOR FRE- PARING DO_2 MICROSPHERES	PAST MELTPLER EMPLOYING PIELD-EFFECT TRANSISTORS	OVERPOLINGE PROTECTION CINCUIT FOR CONDENSER DIS-	514, 408(60) PLOTOSIUM CARSOSITRIDE	NOCLEAR FUEL CORPOSITION FOR HALTIPLICATION DETER- MINATION IN REACTIORS AND DRIVING SUBCRITICAL LATTICES	ABSULAR CONFIDENTIT OF HIGH TEMPERATURE PLASSAS	TEMPERATURE -CRADIENT - IN- SERSITIVE RESISTANCE-TYPE LIQUID METAL LEVEL DETECTOR	PRODUCTION OF SPEERDING WAARIUM METAL POWDER
519,393(60)	498,166(60)	364,342(60)	353,646(60)	643,329(60)	345,055(60)	422,469(60)	514,406(60)	637,042(60)	313,134(60)	574,274(60)	(651,630(60)
3,367,223	3,367,398	3,367,826	3,367,849	3,367,881	3,368,066	3,366,135	3,346,677	3,368,979	3,369,140	3,369,401	3,369,889
1/16/68		1/23/68	1/23/68	1/30/68	1/30/68	1/30/68	1/30/68	1/30/68	· Panita	Soline I	1/30/68
L. Roby J. B. Rochen Berkeley, Calif.	Piedmont, Calif. D. K. Wells Comcord, Calif.	W. W. Salsig, Jr. Ednsington, Celif.	W. C. Bavis C. W. Sheridan J. G. Trzey Oak Ridge, Tenn.	i. f. Kirby C. D. Wicker Borrille, Tem.	H. Cho Escrille, Tem.	W. L. Sunch Eichland, Wash.	K. A. Trickett Bockville, Md. M. T. Simmed Ben Diego, Calif., G. J. Malek Powav, Calif.	R. A. Mayer San Diego, Calif. F. R. Lofftus Del Nor. Calif.		Derbeley, Calif.	W. R. Miller Consord, Tenn. L. H. Thacker Esdaville, Tenn.
472,566(60) NEUTRON CENERATOR WITH OCCURRED CAS ION SOUNCE		SUPPORT FOR CHARGED PARTICLE ACCELERATOR MANEET SECTIONS	METROD OF SEPARATING OF SILLOOM ISONOFES USING SILLOOM DISULFIDE AS THE FEED WATERIAL	ADJUSTING DEVICE FOR RENOTE CONTROL HASTVALIDES	473,880(60) CENTRIPOZ SANTE HOLDER	METHOD OF AND APPRAITIS FOR CONTIDUELD'S START-UP OF A WOLZAR REACTOR	542,949(60) GAS-COOLED EDGLEAR REACTOR	HIGH DENSITY CERANIC SERVICE, CHOCLER PRE, COPRACT CONTAINING AN ADDITIVE FOR THE RESTRETION	OF PISSION PRODUCTS	SCANDING AFTERNISS FOR ALLE- DEC IN THE DETERMINATION OF FOUNT CO-CONDING THE OF ALES OF CAMEED PARTICLES AS RE- CORNED ON FUCCAMPRIC FILM	LIDEAR RESPONSIVE MULTEN METAL LEVEL DETECTOR
473,568(60)		556, 785(60)	425,090(60)	\$36,950(60)	473,880(60)	471,772(50)	562,949(60)	588, 679(60)		(00),000 *047	580, 155 (60)
3,364,355		3,364,636	3,365,573	3,365,978	3,366,320	3,366,544	3,366,549	3,366,576		60	3,366,873

									NO	CES			
3/13/68	3/13/68	3/13/68	3/13/63		3/13/68	3/19/66	3/19/68 x.	3/19/68	3/26/68	3/26/68	3/22/68	3/26/68	
J. C. Marshall Pottstown, Ps.	E. C. Perris Los Angeles, Calif.	W. D. Box Oak Ridge, Tenn.	L. G. Parrott	K. I. Greisen L. T. Pinleyson F. Beines		ZS Z. D. Courant Eapport, N. Y.	E. E. Sander Albuquerque, S. Max.	A. J. Corks Maperville, 111.	M. Rolodney Sev Teck, N. T.	A. Colomen L. P. Anderson Davis, Calif.	E. Mysshita State College, Ps.	E. B. Foreyth Brookhaven, H. T.	
HIGH TEMERATURE BRAIDING ALLOYS FOR TRACETRY AND TAMBALDH AND ALLOYS TRESHOR	FUCLEAR REACTOR HEAT TRANS- FIRE SPETEM	ELECTROLYTE FOR THE ELECTRO- W. D. BOX DEPOSITION OF TECHNICALM OAK Eldge,	PROMETTIC POCCISING OF X-RAY TUBES AND SISTEM FOR OPER-	ATDE	PROPERTY INDUCTION ACCEL- MENTOR WITH POANS TO DEFINE ACCELENATED REACTEDING TO AN	ACCELEATION OF SEATY PARTICLES E. D. Courant ACCELEATION OF SEATY PARTICLES E. D. Courant	TRANSISTOR RAVING CONSTANT CAIN OVER A SHOAD INFERA- TURE RANCE	FAST PERTICAL STRONG MOVING COLL TRANSDOORS	PLATORIUM ETCHING PROCESS	FLUCEOMETRIC ANALYSIS METHOD	DOGDETER PRODUCTION	Na.	
502,707(60)	641,425(60)	457,872(60)	649,413(35)		(55),280(35)	654,039(60)	457,880(60)	491,062(60)	23,865(48)	CON BITTERN	609.730(60)		
3,334,092	3,538,149	3,374,157	3,374,355		03,374,356	3,374,378	3,374,408	3,374,409	3,375,149	3,375,372			
2/20/68	2/20/68		3/2/68	3/2/68	3/5/68	3/5/66	3/2/68	3/2/68	3/5/68	3/2/68	afeita.	3/13/68	3/13/68
E. A. Wilhelm P. J. E. McClusky J. Ames, Iown	G. G. Briggs	TATE	A. L. Klibanoff Boston, Mass.	C. Armanes Oak Eff.je, Term.	E. V. Richardson Paducah, Ky. L. E. McHeese Ook Eidge, Tenn.	G. E. Thomas, Jr. Maperville, III. H. E. Jackson, Jr. Elmburge, III.	R. R. Landolt W. Lafayette, Ind.	L. F. Eocher Efchland, Wash.	J. W. Beymolds Oak Hidge, Tenn. H. J. Stripling, J Eboxville, Tenn.	E. S. Sova Westmont, Ill.	Lociport, 111.	Albuquerque, N. Mex. M. J. Teitt Trafford, Pa.	E. L. Seed Los Alemos, H. Mez.
METHOD FOR MAKING STORTING- URANITA ALLOY WITH PREDETER- MITHER TOTAL WELD WILLIAM AND POID SIZE	PREPARATION OF DENSE THORIA G. G. Brisss AND SULPAIR CONTAINING THORIA Cincinnett. Obto	FROM AN AQUEOUS TROSIUM SITRATE SOLUTION	METERO OF PRODUCING POROUS HICKEL BODIES	ROTALT DRILLING DEVICE	PROCESS FOR NAKEUS POROUS SOBIUM FLOORING PRILETS	432,436(60) BORON-LOADED LEGUED SCHWILLATOR	DREAT RADIOACTIVE PISSION GAS SAVELES	NEUTRON FILM DOSIDETES UNIDO MELITIFIZ FILITINS	METROD AND SYSTEM FOR THE BON-USSTERCITYS INSPECTION OF VARIABLE DESIGNITY PLATES	455,020(60) ELECTRICAL CENERATOR	AIR PROPOSETIONAL ALPSA	DETECTOR. WALVE FOR WOUTH SERVICE	PETABATION OF NETAL CAR- DOMAIRS BY CO., - PRESSUR- IZ DIG AMETREOUS NETAL
619,130(60)	619,131(60)		420,843(60)	529,179(60)	538,169(60)	432,436(60)	\$23,513(60)	554, 292(60)	457,881(60)	455,020(60)	533,837(60)	493,597(60)	624, 667(60)
3,369,690	3,370,016		3,371,405	3,371,558	13,372,004	3,372,127	3,372,274	3,372,275	3,372,276	3,372,290	3,372,295	3,373,969	3,374,069

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	4/3/68	4/9/68	4/16/68	4/16/68	4/16/68	4/16/68		4/16/68	4/16/68	4/16/63	4/16/68	4/16/68
	M. Eplodney New York, N. Y.	R. H. Lewis Claredon Hills, Ill.	C. C. Simons Kennewick, Wash. R. L. Bredford Columbus, Okto	P. F. Bachberger Treasily, N. J. J. A. Hous Bood Ladge, N. J. M. Rocknin	G. E. Prents	F. F. Vlacil Eichland, Wash. C. W. Schoenfelder Livernore, Calif.	D. D. Ferry Merriatown, Calif. M. M. Fein Westfield, M. J.	J. J. Beberts Chicago, III. E. J. Croks Elver Porest, III.	G. E. Corher Clacinnati, Ohio	M. Molodney Elver Edge, M. J. H. Steinmetz Monsey, M. T.	E. L. Libby Etchlend, Wesh.	J. R. Mertin Lisle, Ill. R. A. Minje Monerville, Ill.
	ELECTROLYTIC PROCESS FOR CLEANING PLUTONIUM NETAL	METSOD OF CALIZEATING HIGH- R. N. Lewis WOLTAGE PRECISION RESISTANCE Claredon Hills, POTSMITAL DIVIDESS	EXPLISION VELDING OF INCOM-	71,404(48) POSTABLE IDEDIC MCGANISMS	SPEZD REDUCER	NOVEL RICE EXPLOSIVE COM-		NOCIONA REACTOR ADAPTED FOR USE IN SPACE	RICH SEAT FLUX NEUTRONIC FUEL, ELPSON	AFPARITS FOR COSTINUOUS CITICALS METALS	DEFAURD ROWSESTRICT DE TESTEN TECENQUE INCREAS- DEST OF SAMPLE SURFACE EDCISIVETY	APPARATOS POR DAMPINO AKTAL CORRESENT ESAN INSTABILITIES IN A STRUMENTON PARTICLE APPRINATOR
	23,861(48)	461,364(60)	495,359(60)	71,406(48)	569,738(60)	324,169(60)		656,996(60)	, 565,012(60)	260,086(60)	457,538 (60)	577,782(60)
	3,377,257	3,377,335	3,377,694	3,377,871	3,377,886	3,378,416		3,378,449	3,378,453	3,378,478	3,378,665	3,378,778
		DATE	12/12/67	3/19/68	4/2/68	4/2/68	4/1/68	4/2/68	89/2/19	4/2/68	4/2/68	89/6/9
		ISVENTORS	E. D. Cashion Friendswood, Tex. B. R. Baker Bouston, Tex.	F. E. Bon Avon, Lake, Ohio A. F. Lietzke E. E. Eyland Westlake, Ohio	W. M. Wells, Jr. Livermore, Calif.	J. J. Bellly, Jr. Bellport, N. Y. E. H. Wiewell, Jr. Brockhaven, N. Y.	W. J. Robertson Overland, No. G. E. Kerr St. Louis, No.	R. A. Bell, Jr. L. A. Spainbour A. H. Vesch Oak Eidge, Term.	J. P. Palmer Setsuket, N. Y.	C. C. Stone R. R. Olp Downers Grove, Ill. G. J. Polorey	D. K. Locks White Bock, H. Mar.	H. Earty H. Harty Richland, Wesh.
	PATENTS FOR LICENSING	INTERTION	RADIATION DETECTOR READ- OUT SYSTEM	NUCLEAR PEACTOR COSS FOR A BACKET	CONFICTION CHEESE POWER CONTRACTOR	NECTRON OF STREETS AND STREETS	614,782(60) FLUID RED DENTENTION OF THORIDM WITHERS	CALITECT WITH MEANS TO DELECT CALCUTA CETTERING TAPOR DETO THE TOWN SEAM TO MEDICE TANK PRESSURE	CEMENTOR PETAL PISTON MED GENERATOR	CAMCITOR DISCRARGE CIDCUIT FOR STAITING AND SUSTAINING A WELD DIG ANC	571,155(60) FLECTRICAL CHRECTUR	NDCLAR NEACTOR FOR USE IN SPACE
		SER, NO.	422,100(60)	658, 954 (60)	569,760(60)	642,289(60)	614, 762(60)	(69) 885 (199)	468,235 (60)	479,355(60)	571,155(60)	642,660(60)
	WOL. EVILL	June 25, 1968 PATENT NO.	3,358,145	3,374,148	3,375,664	3,375,676	3,336,116	3,376,414	3,376,440	3,376,470	3,376,544	3,377,251

4/30/68 T.	4/30/68	89/1/5	5/1/68			89/11/8	89/1/68	5/17/68	5/14/68	5/14/68	5/14/68	lo .	S/14/68 f., ite.
E. Kate Fort Jeffsreon, N. Y. M. Bothbart Shortham, N. Y.	E. Lone Elchmond, Calif.	G. L. Miller Rebylon, N. Y. S. E. Wogner Brookhaven, N. Y.	W. Eurmann Port Jefferson	Station, N. Y. A. Perretti Cembridge, Mass. E. J. Arnott Walthum, Mass.	D. B. Rogers Forge Village, Mass	A 1/8	E. D. Mitchell Bells, No. J. V. Les Ook Midne, Tenn.	A. Bayer Lee Gardens, N. Y.	M. Milleron Berkeley, Calif.	N J. A. Paget Poway, Calif.	G. R. Tully, Jr. L. Seiley Fowey, Celif.	A. S. Schwartz Dal Mar, Calif.	IR. F. Konte III Memlo Park, Calif. ES R. H. Miller Mountain View, Calif.
435,015(60) TOW EXCESSED PROCESS	FUSH-FULL EMITTER POLLOWER CIRCUIT	SEMECTION AND APPARATUS	ELECTROLYTIC SEPARATION OF TRANSITION METAL OXIDE	Grethis		SEPARATION OF CESTIF AND STEDITION OF ELECTROPIALSIS	E CALUTION ION SOURCE SAVING J. PER ION OUTSILE POR DESCRIPING OF THE ION OUTSUT.	COORDINATE CONTRICTS	VACUUM FUNCTUC METROD AND APPARATUS	CORE ELEMENT HANDLING STSTEM J. A. Pract Powny, Call	440,945(60) PROCESS FOR BAICING CRAPHITE		RESONANT CAVITY-TITE MONITOR R. F. Roonte FOR MANAGERIO DE SURCE LENGTE Membo Perk, Calif. OF A BEAM OF CHARGED PARTICLES R. H. Miller IN A PARTICLE ACCELERATOR Houstein View, Calif
455, 015 (60)	419,256(60)	566,165(60)	452,948(50)			428, 250(60)	470,651(60)	553,608(60)	(13,053(60)	583,139(60)	440,965(60)		450,561(60)
3,380,916	3,381,234	3,381,367	3,382,161			3,382,164	3,382,359	3,382,500	3,383,032	3,383,286	3,383,439		OKC*trac*c
4/23/68	4/23/68	4/23/68	4/23/68	4/13/68	4/23/68		4/23/68	4/23/68	4/30/68	.4/30/68	89/06/9	4/30/68	4/30/68
- N. F. Zeutschaf Emmewick, Wash. N. E. Dixon Fasto, Wash.	E. J. Allyn Bellevue, Essh.	C. L. Miller Les Alemes, N. Mex. J. L. Stark St. Peul, Minn.	C. N. Drumond Chappeque, N. Y.	H. P. McDuffle Oak Eidge, Tenn.	M. M. Burr Eev Tork, N. T.	D. E. Koshiand, Jr. Bellport, N. Y.	F. H. Coensen Pleasanton, Calif. W. F. Cumins W. E. Nexsen, Jr. Livernore, Calif.	E. H. Graham (deceased) Glastonbury, Com.	M. J. Pelvyler Los Alamos, N. Nax.	R. R. VanDevender, Jr. 4/30/68 China Lake, Calif.	A. E. Miller Ames, Ious .	M. Eolodney New York, N. T.	D. E. Eoshland, Jr. H. G. Lathan E. Patchegue, N. T. H. R. Horton Raledgh, N. C.
HERITELE REAN UTTAKSONIC MON- N. F. Zeutschell DESTRUCTIVE THETING DEVICE No. 8. Dison. Taken. Taken, Utah.	COUPLING AND SEAL FOR COM-	OAST EFFLUSTES CHFRISHOC CYCLOTEDETHINES TELEMENA-MIRE AND MITEOTOLISMES	NUCLEAR REACTOR FUEL CRAINEL ASSESSELY	SETABLION OF TRIVALENT 44 RASE EALTHS FIGURES WITH FUGURING COMPOSITIONS WITH UP.3	2-SECHALIZACIO-4-SITEOPERIL N. Burr		DEVICE FOR PORCHOS REFLICA DWARS OF PARTICLE DISTRI- BUTION IN A FLASHA STERAM	CONFLICTION PAIR PEDBACK ANTLUTES	PARTICLE SENANTOR	QUICK DISCONNECT-COUPLING DEVICE	BARE ZARTH SUBOXIDES	PLUTOSTUK STORING	METRING OF DIRECTORING A COLORED CROUP SENSITIVE TO PH CHANGES DATO ENCYMES BY REACTING WITH 2-PETRIOTY-5- RITEO-RENEYL RECHING
490,148(60)	534, 977 (60)	205,834(48)	522, 116(60)	599,977(60)	477,623(60)		435, 101 (60)	416,170(60)	461,566(60)	475,298(60)	506,913(60)	23,862(48)	(60) 184 (197)
3,379,051	3,379,460	3,379,385	3,379,614	3,379,648	3,379,760		3,379,630	3,379,988	3,330,584	3,360,761	3,380,605	3,380,865	3,380,893

9	11111			70.0000			MARKET TO THE PERSON NAMED IN	The same of	- 19		-
	6/4/68	89/11/9	89/11/9	89/II/98	89/11/98	89/11/9	6/11/68	6/18/68	89/81/9	6/13/63	
	E. F. Post S Welnut Creek, Cald	E. S. Brenden J. C. Spanner Etchland, Wash.	S. D. Skladzien Elmborst, Ill.	R. J. Campens Solaton Pasch, Calif., J. C. Welcher El Cajon, Calif. P. S. Merrill San Dieso, Calif.	V. F. Zackay Berkeley, Calif. E. E. Parker Ortada, Calif.	W. A. Heller R. W. Perkins J. M. Hielsen Etchland, Wash.	R. Bowers J. R. Bouck Ithacs, M. Y. G. R. Lambertson	N. V. Chemberlain Byal Oak, Mich. J. J. Edvards	Southileld, Mich. R. C. Edwarde Freston, Mich. R. C. Edwarde Treston, Mich.	J. T. Bussell Elchland, Wash.	
	MCTHOD AND AFFARAITS FOR ES- E. F. Post MOVING DEVERITY GAS PARTICLES Welmut Greek, Califf. FROM A PARTICLE SEAM	APPARTUS FOR MAKENDIO DI- CREMENTAL MATAL DISPLACE- MENT OF A CHANGEL WALL	OCTICES SCAVESCING METHOD	TRESHOSTACTRED CENSEATOR	PROCESS FOR THE PRODUCTION OF BLUE STREEGTH STREES	ANTON OR DETENDING THE ANTON OF CESTIN-137 IN IR-	MACHETO-PLASM WAVE DEVICE.	ACTOR FUEL HOULE	REDIME SPLIT FLOW BREEDER REACTOR	METROD AND APPARATUS FOR MONDESTERCTIVE DETERMENA-	
	654,231(60) H	578,432(60) A.		451,367(60) 12	494,284(60) 7	M (66) M	371,164(60) H	643,025(60) E	M3,025(60) E	681,042(60) N	
	3,387,174	3,387,370	3,387,969	3,385,08	3,388,011	3,348,254	3,386,331	3,389,063	3,389,054	3,389,254	
	5/11/68	3/11/68	89/11/68	5/28/68	5/28/68	6/4/68		6/4/68	6/4/68		6/4/68
	M. I. Willinski S Borthridge, Calif. E. A. Lamout Woodland Hills, Calif.	E. D. Sperry, 11 Hidge, N. Y.	E. Brechns Paris, France D. A. Hill	E. S. Bettis E. S. Bettis Ecoxville, Tenn. J. H. Westsik Eichland, Wash.	A. W. Easthte Bocky Point, H. Y.	G. F. Erickson Les Alemos, H. Mex. E. Sesskind Ematington, H. T.	Choreban, N. Y. H. V. Duresca (Secased) by H. Muresca, Addinferretrix		W. Hoppe Grossenheim uber Emmus, Germany M. Hiller Holfeng uber Hanau,	Germany W. in der Schmitten Hange am Main, Germany	E. E. Acres F. H. Case Oak Eddge, Tenn. J. C. Dempery
	604,294(48) NUCLEAR ROCKET ENGINE	BEAN PORT CLOSUES FOR HOCLEAR REACTOR	554,290(60) CRTOCENIC FLIE CONCENTRATOR	Sommitt, N 637,880(60) FAST BURST WENTROWN: EXACTOR E. S. Bettis Executile, To J. H. Westsid Elchiand. Es	PARTICLE ACCELERATOR IN- CARDING MANIS FOR TRANSFER- REDS PARTICLES BETWEEN AC- CALCANATE AND STORAGE RING	DEVICE FOR PORCESS SHALL DIAGONE TUBBO CONTROLLED UNLABBING OF CONTROLLY ORDERDS		CUSTABLE MACEDIE TOOL BIT CULPOSITION OF BORDS CARSIDE AND RICKEL.	PROCESS FOR THE PUSIDIO OF MITTAL OXIDES		607,609(60) "OS-OFF" X-RAT SOURCE
	604,254(48) NO	455,351(60) 122	554,290(60) CE	637,880(60) TA	the land of the land	578,902(60) OS		516,148(60) CI	434,720(60) TR		607,609(60) "0
	3,383,858	3,384,751	3,384,849	3,385,759	3,386,040	3,386,276		3,386,612	3,387,079		3,387,136

7/9/68

L. Friedman Fatchogra, H. T. T. F. Moran Decatur, Ga. J. J. Leventhal Mt. Sinai, H. Y.

616,425(60) PASS SPECTRONCTER UTILIZING THE AM TON EASH FOR INHIZED GAS TO RE AMALYZED

7/9/68

L. A. Hanson Canoga, Park, Calif.

645,570(60) PRZPABATION OF ROSE QUALITY UNAUTOM CARRIES

3,392,005

3,392,280

							NOT	CES
	BATH.	10/10/67	4/16/68	1/1/68	7/2/68	7/2/68	7/9/68	7/9/68
6.4	DIVENTORS	G. V. Botari Simsbary, Com., F. T. Grubelich Wethersfield, Com.,	F. E. Bom Awon Lake, O. A. P. Lietzke R. S. Pyland Westlake, O.	E, J. Fox Oak Ridge, Term.	O. M. Steutser Albaquerque, N. Nex.	P. Streetetein 7 Freshfert am Kein, Germany Entst Kibm Manue om Mein, Germany W. Vellie Wolfers, near Bense, Germany	C. E. Flates Storeben, H. T.	L. E. Locas Falo Alto, Calif. R. M. Reiners Orkland, Calif.
MATSHES FOR LICENSING	STR. 10. DWINTION	532,418(60) EDCLEAR REACTOR FUEL ELEMENT	610,725(50) ESACTOR THE ELECTRY FOR A ENGLES ROCKET NATURE	566,091(60) NOTHED FOR PERLANTENS AND ENGINEERS OF CENERATION CLEER BAY DETAILORS	665,104(60) PIETGESCHATCAL LOCKING	433,526(60) PETALONIENS POR SPELIES OF MITTERS AND CONFORMS WITH REGISTED POINTS	555,216(60) COUNTERBALANCED NASIFULATOR	577,118(60) PETRATER FOR DIFFUSION FOR
Wolf., IVIII Suptember 34, 1968	PATERT NO.	3,346,461	3,378,455	3,390,449	3,390,559	3,391,238	3,391,804	3,391,657
89/52/9	6/22/9	89/527/9						
B. C. Watson Cambridge, Muse.	L. P. Batch Brookhaven, K. Y.	E. L. Treinem Forest Park, Ohio E. E. Stents ME. Healthy, Ohio						
428,998(60) TIPE RESULTING MECHANICAL ACCRLEDITIES	SEPARATION SALTS HAVING IN- VERTED SOURILITY CHEVES	DEVICE FOR SENSING THERMAL HEATHORS AND WILLEING SOCI HEATHORS FOR PRODUCING AN						
428,998(60)	425,664(60)	502,698(60)						

3,389,606

3,390,270 3,390,078

2/30/68	7/30/68	7/30/68	7/30/68	8/9/9	S.int.	8/6/68	89/9/8	8/9/9/8		89/9/8	8/9/9/8	8/9/8	8/9/9	8/13/68
M. R. C. Elspert ATE T. R. Esto Cincinnati, O.	J. E. Hench Ser Jose, Calif.	P. H. Savada Scotia, N. T.	E. L. Brosm, Jr. Richland, Wash.	W. J. Clabeugh Los Gatos, Calif.	J. H. Corines J. H. Shaffer Ock Eldge, Tues.	W. F Daniels K. Wolfsberg Los Alsmos, H. Ner.	C. E. Haarin, Jr., 5 Oak Eldge, Tenn.	T. Y. Bengiger	E. E. Begnade Los Alemos, E. Mex.	R. S. George R. E. Echwer Los Alemos, H. Mer.	D. S. Easton Lemoir City, Tenn.	D. M. Olson Sents Pe, M. Mex.	B. B. Low Children, Calif.	E. A. Cress J. T. Walls Columbus, C.
668,119(60) FLUCRIDE ADSCRPTOR BY THORITH B. C. Kiepert GIIDE IN AQUEDUS THORITH RITAKTE T. R. Kate SOLUTIONS Cincinnati, O	008,673(60) COULDS STRIPN DR A RECLEAR FEACTOR UTILIZED CONCRETE FREESSUR VESSEL	442,837(60) HICH SPZED ANTH-PIER-DISCEL- NUMBER WITH WIRE THRANCE PASCE	522,327(60) TOROIDAL EDOT CREEKT MONDES- R. L. Brown, Jr. THUCTIVE TESTING PROSE Richland, Wash.	396,014(60) JET POR	544,466(60) EDODVEST OF PEOTLETHINK FIGH HELTER FLORIDE SALTS	609,732(60) CONCENTRATION OF TRANSPLE- TOTHIN ACTINIDES FROM DIRC SAURIES	656,965(60) TURCSTEN-MENTING COATED C. E. Hearin, Jr. CERANIC REACTOR FUEL PARTICLES Onk Eddys, Tenn.	372,420(60) B-DI AND TRIBILED CARBONATES AND METHOD FOR THEIR PRODUC-	100	644,442(60) FIZHBAILON OF 2, 4, 6-TIL- CHLORONITENBERINE	463,893(60) NETHEO FOR ELECTRO-DISCHARGE HACEDNING	406, JII (60) ISOTOTE-PONTEED I-BAY DISTRE- NAME PON DETECTION THE ARRIVAL OF AN DITERRACE IN A		591, 249 (60) PRICTION WRIDER
3,394,996 668,	3,395,075 566,	3,395,294 442,	3,385,339 522,	3,395,647 596,	3,395,991 644,	3,385,992 609,	3,396,080 656,	3,396,187 372,		3,330,200 044,	3,396,259 483,	3,396,272 406,	3,396,375 457,	3,396,883 591,
37,15/68	2/11/12	271.6/68	1/16/63		7/16/68	2/16/68	1/16/68		7/16/68	1/13/68	1/23/68	7/23/68	7/23/68	39/52/1
W. T. Van Lierde Mechalen, Belgium	A. L. Benson Concord, Mass. W. J. Smith Arlington, Mass.	Littleton, Mass. L. W. Lamberger	Allegany, R. T. H. J. Lonberrard	the Control of the	R. J. Locker King of Fruesia, Fa. G. C. Euth Essemnt, Fa.	W. J. Brady G. E. Iverson Las Vegas, Sevada	G. T. Banby Weding River, M. T.	Medford, B. Y.	R. E. Hists Concord, Calif.	F. H. Broome Oak Eidge, Tenn.	L. Bess Terra Sante, Ind.	R. H. Jones Geithersburg, Md.	E. F. Miller Bockville, Nd.	D. R. Green Richland, Wash.
100	577,780(60) ARROSOL FILTER TEST DEFICE		660,682(60) PROCESS FOR MAINTAINING		499,594(60) EDG-STRED, BIGS SERSITIVIT, EGGIZING RADIATION DETECTOR	531,327(60) IDSHIPMATION MADE DOSI-	574,618(60) QUANTINGE MACHET WITH RE-		593, 601(60) SENECOMPOTING SHIRTS FOR SEASILIZING SUFFICIONDOCTING MAGNET COLLS	534, 976(60) SPINGLE CROWTH COMPRISATING STRICE	486,573(60) OPTICAL BANGING APPARATUS	671,500(60) NGCLEAR REACTOR CORE CONT.	626,374(60) MITEOD OF OPERATERS A NEU- TROHIC REACTOR FOR REPORCING GAS MIXTURES AND FROUDING HEAT FOR MILLI-FURFOSES	450,146(60) ULTRASLARZ EDOY CURENT NOW- D. R. Green DESTRUCTIVE TESTENC APPARATOS RICHIAND, Wark,
\$11,289(60)	577, 788(60)	304,031 (60) SZAL	660,882(60)		493,554(60)	531,327(60)	574,818(60)	8	593, 601 (60)	534,976(60)	486,575(60)	671,500(60)	626, 370(60)	450,146(60)
3,352,494	3,382,573	3,392,910	3,393,256		SIE,88C,8	3,355,318	3,385,385		3,393,386	3,393,568	3,393,600 .	8,394,049	3,394,650	3,394,306

										N	One	.65			
8/27/68	8/27/68	8/12//8	8/11/8	8/121/68	8/27/68	8/22/68	89/101/6	89/101/6	89/11/68	9/11/68		89/11/68	9/24/68 . T.		9/24/68
W. Zobel Oak Efdge, Tenn.	E. O. Johnson D. L. Robinson Idaho Falls, Idaho	S. E. Doner Richland, Wash.	R. H. McFarland Livermore, Calif.	R. L. Pilloten Oak Eidge, Tenn.	J. E. Fowell, Jr. Rocky Point, N. T.		E. L. East Los Alamos, E. Nex.	P. M. Holm J. E. Deverall Los Alemos, N. Mex.	F. L. More Exertille, Tenn.	L. McDonald	Myokern, Calif. N. A. Macked Altadems, Calif.	A. Shambon Great Neck, N. T.	2. Feder Croton-on-Balson, M. E. W. Assi	Mehopse, N. Y. H. P. Charbasu Petnam Valley, M. Y. E. Mambeimer	M. O. Grega Mamisburg, O.
614,534(60) AFFARATOS POR ESCULATING AT LOW INDURANTURES	618,785(60) TAANSIDGER POR MEASUREMENT OF TRANSIDER PERCEITES	\$22,797(60) SELF-CALIENTING LIQUID- LEVEL-MEASURING DEVICE	569,535(60) METHOD FOR MEASUREMENT OF VACUUM PRESSURE	438,800(60) FUUDIZED-RED COATING AFRARATUS	469,439(60) ORCE-THROUGH LINUID METAL PISTOR MED CENERATOR	534,973(60) APPARATUS FOR DELATING A CONTENTIONS ELECTRICAL SIGNAL	490,750(60) PREPARATION OF THE CARBON- ATES OF THE BASE EASTES	591, 012 (60) COREDSIVE LIQUID FLOW METER	707,466(60) METEDS OF SERRATING RESERVATION SERVED	140,148(48) PHENTLONDALMANDL COATING OF		594, 632 (60) CONTRESSED LITERIAN FLADRING BOSIDETER FELLET	440,963(60) METROLOGY METROS FOR CRISTAL METROL DETROTION		649, 361 (60) SULF HEATER
3,398,549	3,396,572	3,396,578	3,336,582	3,398,718	3,399,315	3,399,386	3,401,008	3,401,260	3,402,027	3,402,065		3,402,293	3,600,632		3,402,708
8/13/68	8/11/68	8/13/68		071-170	0/17/00	8/20/68		8/30/68		8/20/68	8/20/68	8/20/8	8/20/68	8/20/68	8/20/68
R. D. Rivers Kingston, Tenn.	M. P. Browning W. J. Wilson Columbus, O.	J. G. Eircher Borthington, O.	E. J. Kahler Columbus, 0.	Delaware, 0.	Richland, Wash.	W. S. Kelly Richland, Mash. F. M. Weldling	R. A. Kerphill Los Alenos, H. Per.	T. H. Betser J. J. Murphy Livermore, Calif.	Sem Leandro, Calif.	Aibem, S. C.	R. C. Propet Aften, S. C.	L. A. Banson Cenoga Park, Calif.	G W. F. Splichel, Jr W. Auguste, S. C.	E. A. Moulthrop Michland, Wesh.	I. Bom. berteley, Calif.
559,352(60) SHLFUR PORIFICATION BY FING- TIDGAL CONDENSATION	A29,689(60) PROCESS OF VAROR COATING BUCLEAR FUEL WITH SERTLINE OTIDS AND CARSON	All, 168(60) METROD OF PREPARING OR- GAROTIN COMPOUNDS		(N. 234 (60) lett.nre: more		WE, 4.23(ed) DURFING CONSTRUCTION		SA,411(60) UZECZ CATE WACHN WALVE NE- CRAFISH WITH COALED SEAL SEAL	AND ALL AND DEPOSIT THE PARTY AND DESCRIPTION OF THE PARTY AND DESCRIPTION	an' outlood minustons volunting stand	M,144(60) SCHEETSC-COTLONETET METHOD AND AFFARATIS	645,579(64) PREPARATION OF PORS DENSE STROSTOCIONESTRE URANIEM CARBIDIS	508,872(60) NEUTION DETECTOR FOR NEASURING W. F. Spiichal, Jr. 8/20/68 BOSE BAIR W. Augusts, S. C.	513,861(60) METHOD AND APPARATUS FOR DE- TERMENING COOLING AGE OF NU- GLEAR REACTOR FUEL.	470,654(60) FEEQUESCY CONTESTER USING T. Buen. LABCE SIGNAL SQUARE-LAW SENG- Berkeley, Calif. CONSDOCTOR
3,397,041	3, 397, 075	3,397,131		3.397.298		1,371,613		3,397,862	978 204 %	confucete.	3,358,064	3,358,098	3,398,278	3,390,280	3,356,257

24144								NOTI	CES		
	DATE	89/1/01	10/1/68	10/8/68	10/8/68	10/8/68	10/8/68	10/8/68	10/8/68	10/13/68	10/15/66
1 · id	DATEMORS	C. A. Burgess Kennewick, Wash.	H. H. Ross Oak Ridge, Term.	D. B. Lombard D. V. Fouer Livermore, Calif.	D. M. Berrus Canoga Park, Calif. A. C. Williams Chatawarth, Calif.	E. O. Anger Oakland, Calif.	R. W. Lakin Livermore, Calif.	G. W. Berton, Jr. Alemo, Calif. R. J. Dopsyk Livermore, Calif.	J. L. Cole Palo Alto, Calif. J. J. Miray Los Altos, Calif.	C. Williams Clinton, Tenn.	R. W. Lefevre Eugene, Oreg. D. L. Wieber Orinde, Calif
PATENTS FOR LICENSING	NATATION	METHOD OF PREMAING A CEMET SUCLEAR PUEL	RADIOACTIVE ISOTOPE-ACTIVATED H. H. Boss LIGHT SOURCE FOR COLOR PHOTO- Oak Ridge, Tenn. METER	TRANSDUCER FOR MEASURING PRESSURE PULSES	REACTOR CONTROL BY FREE PINTOS BACK AND PINTOS LIPERAR ACTUATOR HOTION NOLITELIER	ISOTOPE SCANNER WRICH CREATES I-PAY AND GAME RADIATION DRICES STREETANG-OUSLY	DOSINGTER INCORPORATING AN ELECTRO-CHEMICAL INTEGRALING DEVICE	MACNET SWEET CONTROL CIRCUIT	PHISE EMERITING AND EMERGY RECOVERT SYSTEM FOR AN ELECTROMONET	MEANS FOR CONTROLLING CALUTION FILANGES ACTIVATION	TIME SAMPLING CIRCUIT FOR AN OSCILLOSCOPE
1968	S28, NO.	639,572(60)	504,266(60)	438,137(60)	656,639(60)	471,773(60)	588,267(60)	461,562(60)	498,170(60)	634,059(60)	\$13,862(60)
Wolf. KWIII December 31, 1968	PATENT NO.	3,404,200	3,404,270	3,406,559	3,405,032	3,405,233	3,405,274	3,405,326	3,405,327	3,406,283	3,406,313
89/34/68		89/72//68	9/24/68	9/24/68 Y.							
E. V. Shivers Weshington, D. C. E. L. Beckman	Gaithersburg, Md.	L. McDonald Inyokern, Calif.	E. S. Bettis Exerville, Tenn.	S. T. Glordsno Port Jefferson, N. Y.							
649,342(60) SUIT BEATER		141,846(48) PROCESS OF CONDITIONING PARTICULATE PATERIALS FOR USE IN ORGANIC EXPLOSIVES	661,177(60) MOLTEN SALT BESERRE ERACTOR I. S. Bettis AND FURL CELL FOR USE DEREDN Exerville, Imm.	499,120(60) BIGS ENERT LICAR ACCERSA- TOS AFRASTES							

3,403,061

3,403,346

3,403,076

3,402,709

10/15/68

J. E. Swein
Livermore, Calif.
J. B. Truber
Badwood City, Calif.

464,589(60) ION REAM CENTRATOR BAYING LASER-ACTIVATED ION SOURCE

3,406,349

								NOII	CES					
11/26/6		11/26/6	n bele	3/92/11	11/26/6	11/26/61	11/26/60	11/26/61		89/8/21	12/3/68	12/3/68	12/3/68	
	Cripde, Calif.	P. Fortescue 11/1 Barcho Santa Fe, Calif.	F. B. Delrield S. S. Dufrield Sem Diego, Calif.	Monroe-ille, Fe. K. A. Erens J. S. Johnson	Oak Hidge, Tenn. D. E. Jones J. E. Geskill Livermore, Celif.	D. E. Westervelt Los Alambs, N. Nex.	Stanford, Calif.			L. A. Brey B. L. Moure Michland, Mash.	M. D. Coburn White Bock, M. Hex.	D. R. Benley Mewark, Calif.	M. Petrick	
999,799(60) ACCESSOREMS STEEL AND PROCESS 1996,179(60) FOR PREFAMENTAL PROCESS		485,811(60) PUEL ELBERT	A.C. Effectio OF PLINGERS		TERROLLACIESCENT BADIATION DOCUMENTE WITHILL	ATMOSPRERIC MITRORIS FURD- RESCENCE DETECTION APPARATES	LINGIA ISITED SECONDOROS J. Lianer SADIATIOS ISTECTOR Stanford,	SOUCHULTOR DETECTOR MANUAL A LITERAM CONSESSATION CONTRACTOR DETECTOR ACCOUNTY OF THE PROPERTY	CONDUITING THE RELIGIES	SILVES SEPARATION FROM AN	12, st, stminimum.	CONTACT LOOP SHOCK SENSOR	WASETORIDE CONSUME GENERALOR	
529,259(60) 196,729(60)		1,85,811(60)	502,708(60)	548, kez (60)	4%, anz (60)	512,831(60)	533,381(60)	534,974(60)	de langual	AL, MEE(50)	596,822(60)	643,319(60)	511,565(60)	
3,412,126		3,413,196	3,413,200	3,413,229	3,413,225	3,413,467	3,413,528	3,413,539	and this	25445,403	3,414,570	3,414,692	3,414,744	
10/22/68	11/5/68	11/5/68	11/5/68	11/5/68	11/12/68	11/12/68			11/13/68	89/61/11	11/19/68	201		11/19/68
A. M. Ferbush H. P. Kieltyke Westfield, H. J.	J. W. France Pleasenton, Calif.	R. E. Burns J. F. Failligs W. W. Schulz	F. L. More forville, Tess.	F. L. More Eboxville, Tess.	R. L. Delnay Arracks, Colo. L. F. Grill J. L. Halst	Boulder, Colo.	Nederland, Colo.	R. E. Emison Albaquerque, H. Nex	Nowark, Del.	V. F. Fitzpatrick Richland, Wash.	J. Eastner . Park Forest, III.	D. M. Eggenberger Bowners Grove, III. L. Foyvodic	Effeddie, Ill.	F. E. G. Lothrop Lafayette, Calif.
Department of ciliatests MATERIALS WITH MONOCORNIC MATERIALS WITH MONOCORNIC OUT A DYZ AND IN SITU POLY- MERISATION BY INDADIATION	APPARTUS FOR AUTOPATIC PRE- PARATIVE GAS CHECH DOGRAPH	HETHOD OF DISSOLVING ALHERDRA-CLAD TRORIA TARGET BLEEDENS	EXTRACTION OF BERKELIUM WALDES IN THE INTRAVALENT STATE USING 2-THEMOTIL- TRIFLUDINACTORS	METHOD OF EXTRACTING SOLVELE METAL COMPLEXES USING AMINE SOLVENTS	PLUOROCARROH LINED CLOYERGE	RECOVERY OF PLUTOSITUM PROM	MATERIALS	STREET, INTA SOCIED LOCIC STREET, INTO CONTROL LOCIC STREET, INTO CONTROL LOCIC STREET, INTO CONTROL FORM	SEAVY SATES	DEVICE FOR MEASURING THE LEPOSITION OF SOLLINS IN MOCLEAR REACTIONS	A PULSED ULTRAVOUET LASER	NOR REALDON OF PROTOS.		STACKWING
391,810(60)	610,215(60)	(09) 569 (60)	674,067(50)	643,315(60)	(99) (83) (60)	(885,177(50)		(09)075*186		668, 481 (60)	. 508,871(60)			574,819(60)
3,407,088	3,408,793	3,409,413	3,409,414	3,409,413	3,410,619	3,410,668	****	3,411,884		3,411,967	3,412,248			3,412,337

12000	200								Her years				
12/31/68	12/31/68	12/11/68	12/11/68		12/3/68								
R. R. Wright Oak Eidge, Tenn.	J. C. Hesson Riverdale, Ill.	J. K. Cort Los Alexon, N. Nex.	R. E. Riley	J. M. Tenh Los Alamos, N. Hex.	F. E. L. Libby Etchland, Nesh.	100000							
445,865(60) NICKEL-FLATING BOTH POR TROKION	SEAL.	ZECTSOPOLISHING FATING IN R. Seeguller A HOLIZH WAR OF POLKSKIN J. K. Gore THIOTOGRAF AND POLKSKIN LOS ALMOSS, S CTANINE		COGOCITIONS	RODECTROTTIVE EDUY CUREDIT PERTURE PORTO DESTUDI PERTURE AND DESTURE TRANSPORTE THE CROSS PROPERTY OF THE CROSS	SECTION OF SAID FUEDIG							
M5,865(60)	518, 742(60)	555,931(60)	(39,595(60)		\$22,325(60)								
3,419,419	3,419,432	3,419,485	3,419,656		3,419,797								
12/3/68		12/10/68	12/10/68	12/10/68	12/10/68	12/17/68	12/11/68	12/11/68	12/11/63	12/24/68	12/34/68	12/31/68	12/34/68
H. L. Laquer Espanols, H. Hex.	E. P. Hemel Los Alamos, S. Nex.	A. E. Smith Clinton, Term.	R. J. Ginther Greve Cosur, No.	S. A. Bush Lafnyette, Colo.	W. W. Coldswortby Orinds, Calif.	C. L. Frederick Richland, Wash.	E. M. Welch Stockton, Calif.	J. A. Leary L. J. Mullins, Jr. J. F. Buchen Los Alamos, N. Mex.	D. E. Kiner D. E. Lorder Columbus, Ohio	C. Asmanes Oak Ridge, Tenn.	C. H. Hulgens W. Carrellton, O.	N. G. Anderson R. H. Stevens Onk Ridge, Tenn.	E. Gordon Mer Baven, Conn. H. Pubrush Shrub Osk. M. Y.
555,930(60) AUTOMITIC SUPERCONUTING PURP	*	SEALING APPAREMENT FOR PERSONS PERSONS VESSEL	CACE FOR COFFEESING PACCING NEVERSE	RESIDENANCE MELDIDIO	REACTIONIC PULSE LINE POR PROTUCINE STREETSLOAL SQUARE-TOPPED PULSES	METHOD OF DETECHNISHING OF A METHU. SAMPLE	97, 494(60) 10H IZMBAZZ COUTUED SEAL	METHOD AND APPRAINTS FOR DEPOYING PROCESSES OF FLATORICAL CALLING ALLORS BY ELECTRODESTICHS	METHOD OF PREPARING SPRESCOAL URAINEM MITHER PARTICLES HATHE A PORCUS DETRACOR	HOWAY TABLE	LEAF SPECIE-MOUNTED SHIPTER DEVICE ACTIVATED BY THE DEVERSE PORTS	NAS IGUALION DERECTOR	ECONOMIO DOCOLDENIUM CESMENS 2
(09)0£6'555		Sit, kzz(60)	(05) 181(419	582,209(60)	\$40,421(60)	(09)E90"T64	97,194(60)	kA,250(60)	702,538(60)	(09) 164 (59)	MSI,1kT(60)	470,652(60)	(6%,986(60)
3,414,777		3,415,170	3,414,527	3,415,977	3,415,103	3,416,365	3,416,768	3,417,002	3,417,167	3,418,027	3,418,475	3,419,359	3,419,387

1/14/69	1/14/69	rcb, 1/14/69	1/14/69	alit.	1/14/69 usb.	1/14/69		1/21/69 ma.	n1. 1/21/69	1/21/69 L. Nex.	1/21/69	. H	1/11/69
J. L. McKimney Dayton, Ohio W. L. Taylor	M. Honteg Flainview, M. Y.	N. G. Koerner Manhattan Beach, Califf.	T. Anderson Castro Valley,	E. H. Lorbeer Livermore, Calif.	J. C. McGuire Emmerick, Wash. C. Wohlberg	R. A. Bossen Ock Eldge, Tenn. R. L. Pilloton	H. J.	M. Sanders Enerville, Tenn.	R. J. Steindler Park Forest, III. A. A. Jonke Eleboret. III.	T. G. Gregory Los Alencs, N.	W. B. Sampson R. A. Beth Bellport, N. Y. L. B. Britton	P. C. Kruger Chempaign, III.	P. E. Allen
AFFARATUS AND METHOD FOR SETAMATION OF MELIUM ISOTOPES	GAS, LOW PRESSURE, DIFFERENTIAL REGULATOR.	RE-ENTRY VEHICLE FOR SMALL PACHAGES	OPTICAL EXTENSIONETER	7	CARRIED DEPOSITION ON TANTALIN	METHOD FOR PREPARING METALL OLIDIK MICHOSPHERES		AIR SAMPLING REVICE	PLUTOSIUM TETRAFLOORIDE PESPANATIOS AND SEPANATIOS BY SORFTIOS ON SODIUM PLUORIDE	METHOD FOR INSPECTING IN- ACCESSIBLE SUPPLESS	MELIPOLE MACHET BATHS A SEQUENTIALLY SHIM STEPPED COLL CONFECUATION		WIDE SAME INDUCTIVE COLL.
571,632(60)	(16,431(60)	628,791(60)	383,534(60)		586,007(60)	701,872(60)		326,417,600	690,428(60)	523,803(60)	591,056(60)		593,254(60)
3,421,334	3,421,543	3,421,714	3,421,819		3,421,953	3,422,167	* 144 (01	100 '7778'c	3,423,190	8,423,500	3,423,706	1	3,423,710
1 4	W. A. Pfeiler 1/7/69	C. E. Valentins Oak Hidge, Tenn.	L. J. Mulitas 1/7/69 J. A. Leary Los Alamos, N. Mex.	J. A. Porter 1/7/69 Williston, S. C.	A. M. Feibush 1/7/69 Westfield, N. J.	P. Extroyannia 1/7/69 Fatchogue, M. Y. A. M. Tomatsko Rechester, M. Y.	C. H. Distemfeld 1/7/69 Mattituck, N. Y.	F. L. Toby 1/7/69 Berkeley, Calif.		E. M. Jones 1/7/69 Evensville, Ind. R. J. Thomas Padocah, Ky.	R. L. Cassell 1/7/69 Fort Jefferson, M. T.	C. A. Sandoval 1/7/69 Albequerque, W. Mex.	,
PATRICE FOR LICENSING	ENT-ISOSTATIC-PRESSING	Particular	MOLTEN SALT METHOD OF SERBALTION OF AMERICIUM FROM PLUTOSTUM	PROCESS FOR DEPLETING 170 AND 180 IN 238 Pro.2	LOW TEMPERATURE INFRDIATION OF MONOMER IMPROCHATED CELLULOSIC MODIES	PROCESS FOR JOINING THE A. AND S CHAIKS OF INSULIN	THERMOLDHINESCENT TISSUE EQUIVALENT DOSINGTER	SPITAL SCANNING SYSTEM EMPLOYING HOTARY AND	RECIPROCATES MIRRORS FOR AUTOMATIC DATA MEASURES PROJECTORS	ELECTROCAL LOAD CONTROLLER	538,918(60) ESCTIFIES FOR ACCELERATOR MAGNETS	623,182(60) SOLESOID ACTUATED DEVICE	
	52R. NO. 603,066(60)	7	677, 504(60)	667,048(60)	(576,187(60)	289,463(60)	250,089(60)	523,514(60)		673,223(60)	538,918(60)	623,182(60)	
WOK., KIK March 25, 1969	2,419,935		3,420,639	3,420,640	3,420,761	3,420,810	3,420,999	3,421,010		3,421,015	3,421,071	3,421,125	X

1/18/69	2/18/69	ii ii	2/18/69 fex.	2/25/69	2/25/69	2/25/69		2/25/69	1/25/69		
G. A. Berm Stillswater, Okla. E. L. Beno	f. Ven Vorour Boulder, Colo.		G. E. Boettcher 2/ Albuquerque, N. Mex.	P. E. McDonald G. A. Reimann P. H. Patterson Oak Ridge, Tenn. C. F. Liften, Jr.	J. T. Bussell Bichland, Wash.	R. J. Piper Bartington Beach, Calif. J. A. Craix	E. A. Dutton Chasterfield, No.	Forfield, H. Y. P. H. Case Oak Ridge, Tenn.	E. J. Eart Hinsdele, III.	Elaboret, 111.	
APPARATUS FOR VACUUM DE- POSITION ON A NEGATIVELY BIASED SUBSTRATE	METHOD FOR FEMTIATING DRE	STABILITY AND OPERATING CHARACTERISTICS OF COM- POSITE SUPERCONDUCTORS	ENTERNIE ELECTROCEDICAL COULCIETES	PROTECTIVE CLADODISCAND LUMNICANT FOR MCCRANICALLY DEPOSMBLE REACTIVE METALS	459,465(60) CBAVITY METER	CAUCH PRODESTRONAL VACUUM		RING SLIC CONITOGS NOTHED AND FILTER FOR RE- MOVILLO LOUINE FROM GASES	METERO OF QUANTITATIVE ANALYSIS OF MEDICISES GENERALINES OF MEDICISES	ELECTRONS	
583,119(60)	1037719 369		591,657(60)	597,483(60)	459,485(60)	654,283(60)		526, 662 (60)	547,032(60)		
3,428,546	100 000	ren'opule	3,428,894	3,429,158	3,429,184	3,429,185		3,429,187	3,429,667		
1/28/69	1/28/69	2/4/69	2/4/69		2/4/69 Nex.	2/4/69	2/11/69	2/11/69	2/11/69	2/11/69 . T.	2/11/69
W. L. Godfrey Pasco, Mash.	C. E. Cohn Clarendon Hills, Ill.	J. H. Handwerk Joliet, III. D. E. White Marwood, III.	F. A. Schmidt	U. R. Carriera Anes, Ioun W. E. Erupp Sint, Calif.	S. C. Levy 2/4 Alboquerque, N. Nex.	E. H. Acres F. H. Case Oak Eidge, Tenn.	M. W. Roberts Chambles, Gs. M. E. McLain, Jr. Sayrus, Gs.	C. W. Fox Ecloses, Ind. G. M. Slaughter Ock Ridge, Tenn.	H. Brechas Palo Alto, Calif	W. J. Hartin Meding River, S.	Dorrance, Calif. P. W. LeVier Passdens, Calif.
490,753(60) MILTISTACE SERVACION OF COMPONENTS OF A SOLUTION	HETEOD FOR START-UP OF A SUCLEAR REACTOR UTILIZED A DIGITAL COMPUTER	MELLIND AND APPARATUS FOR MAKING PRAS-18-A-POD NOCLEAR REACTOR ELEMENT	GLA MITOLO	Outreastal last support	THERMAL BATTERY HAVING HEAT CREENING HEARS COMPRISING EXCTERNATION ALLOTABLE WETALS	METHOD FOR TAGGING SAND WITH A CASEOUS RADIOMOTIVE ISOTOPE	APPARATUS FOR CENTELPUGING ELECTRICALLY CONDUCTING LINGUISS	637,063(60) BRAZING ALLOY	SADIATION RESISTANT DESULATION	THESPOLINCINGSCENT HEAT STABLE LITHIUM PLICEIDS DOSINGTER	HUCH SPEED COMMUNICOS SIGNALS TOTTERCE, CAI FOR LOW LEVEL ANALOG SIGNALS TOTTERCE, CAI P. W. Lavier Passdens, Cai
490,753(60)	645,569(60)	369,033(60)	537,619(60)		489,441(60)	671,484(60)	516,156(60)	637,043(60)	438,798(60)	576, 781(60)	\$06,915(60)
3,424,549	3,424,653	3,425,115	3,425,826		3,425,872	3,426,205	3,426,967	3,427,155	3,427,189	3,427,452	3,427,475

3/4/69	3/4/69		3/4/69	3/4/69 Nex. 3/4/69	3/4/69	3/4/69
E. H. Jones Scotts, N. T. L. G. Classon Dover, Mass. M. B. Ziering Newton Highlands,	R. F. Cibeon D. A. Saters Cak Ridge, Tenn. C. E. Bunley Kingston, Tenn.	Pleasanton, Califf J. S. Johnson E. A. Ergus Osk Ridge, Tenn. F. W. Case	Use Angle, inm. T. S. Mackey C. E. McParland Roovville, Tenn. C. D. White J. H. Mandwork Joliet, Ill.	Alboquerque, N. Men J. I. Anderson D. G. Olson Idabo Palls, Idabo	L. C. Bate Clinton, Tean. F. F. Dyer L. H. Thacker Rozville, Tean.	E. F. Stone L. T. Jackson Berkeley, Calif.
497,342(60) AMSENCIATOR CIRCUIT 532,527(60) DETERMINATION OF WAFOR QUALITY	657,713(60) LIQUID CENTRIPUGE FOR LANGE-SCALE VIEWS SEPARATION 570,731(60) ZIRCOSTEM BASE ALLOW	HYPER ILITATION PROCESS TAKATION TON EXCANCE PER- TERATION OF MACING A STRONGTHING OF BARNEY	SQUECE METHOD OF PREPARING A PUEL METERIAL POR USE IN A MUCLAR REACTOR	METHOD FOR INDUCTION HEATING ROCATIONAL TECHNIQUE FOR ASSESSING QUARTITY AND DIS- TRIBUTION OF BODT PABLIL- ACTIVITY	RADIATION DETECTOR AND REGORDER.	EARCH POSITIONER FOR ACCILERATOR ELIZERAL REAN
532,527(60)	657,713(60)	664,207(60)	701,838(60)	594,320(60)	652, 632 (60)	720,265(60)
3,430,483	3,430,849	3,431,201	3,431,329	3,431,379	3,431,414	3,431,502
	Mo. Connects Mo. Connects M. Styness Eindhout, Belgium Sindhout, Belgium G. Camorro G. Camorro M. Baleriani Mol. Baleriani Mol. Baleriani	F. Comman Antwerp, Falgium Antwerp, Falgium Durnbout, Belgium J. J. Schnetz Mol-Douk, Belgium Fachbout	N. Fuhrman 2/25/69 Shrub Cak, N. Y. E. Corlon, Gonn. Hew Haven, Conn. R. B. Bolden Flessentville, N. Y.	D. H. Gurinsky 2/25/69 E. Y. Powers Stormville, N. T. E. Sesskind Bastington, N. T.	C. J. Beck 1/25/69 M. R. Birmby Schanectedy, N. T. P. G. Lozier Ballston Lake, N. T.	E. A. Blumenfeld 2/25/69 Frinceton, N. J. F. P. Paniolff. Descon, Mass. Chib.Res Sun Bayside, N. T.
METHOD OF PROCESSING MUCLEAR FUEL ST SELECTION CIP STEAMS. TION OF UP ₆ AND PuP ₆ .	METROD OF PLEORIDATING SUCLEAR FREE VITA	AND UTAKTUM RENAPLUDRIDE	638,306(60) HICH LOADED UDCOLUMNIUM CENTERS	PREVENTION OF SELECTIC IN LIQUID METAL ENVIRONMENTS	641,427(60) ELECTROCHEMICAL ETCHING OF SPIRAL LANDS	MINIMENT IONIZATION PARTICLE DETECTOR PRODUCED ST GAMMA RAY IRRADIATION
673,528(60)	673,527(60)		658,306(60)	(36, 299 (60)	641,427(60)	494,281(60)
3,413,669	3,429,670	0	3,429,699	3,429,774	3,425,798	3,430,043

3/11/69	3/11/69	3/11/69 Nex.	3/11/69	3/11/69			3/18/69	97/18/69	3/18/69	a/na/ko	= .	3/18/69	3/18/69 . Y.
J. V. Les L. O. Love Oak Eidge, Tenn.	H. A. Kermicle Onk Ridge, Tenn.	C. S. Land D. G. Schweler Albuquerque, N. P	O. A. Fick Livermore, Calif.	R. B. Britton Setsuket, N. T.	E. S. Robins Center Moriches, N. Y.	W. B. Sampson Bellport, N. Y.	R. Parker Danville, Calif.	C. D. Cornish Fort Jefferson, H. Y.	H. R. Bosman 3/ Walnut Greek, Calif. S. G. Thompson E. E. Hyde Berkeley, Calif.	R. C. Jared Hayward, Celif.	W. L. ungmond II Sobrante, Calif. D. T. Scalise B. H. Saith Berkeley, Calif.	D. A. McKee Grand Junction, Colo.	H. Hahn E. Patchogue, H.
CALUTRON TOW SOUNCE WITH MANNETLE FELLS INDOCING COLL. WITHIN ARE CRAMMER.	SPECIALIZED ELECTROMETER CIRCUIT	EMITTER-FOLT WERR OSCILLATOR EMPLOYING FERNALECTRIC CRRANIC FERNACK NETWORK	VOLTACE-TUNED WIEW BRIDGE OSCILLATOR	SUPERCONDICTOR RIBBOR			APPARATUS FOR DETERMINED MECHANISM	PROPERTIES OF MATALS STELLARATES TAVING MALTI- POLE MIGNETS	SENTICOMORPHIA X-BAY EMISSION SENCTROMETER		MULSE LIPE INVINC CONFORMATS COURTINED VITE LANZ SUPERCE AREA CONFECTORS	CIRCUITS FOR AN ELECTRICAL RNS MEASURING INSTRINGENT	COMPENSATION OF PHASE DRIFT ON LONG CANES
504,274 (60)	684,134(60)	661,179(60)	(09) 895 (60)	663,175(60)			532,541(60)	709,080(60)	\$80,571(60)		, 571,156(60)	384,268(60)	580,513(60)
3,432,709	3,432,764	3,432,773	3,422,774	3,432,783			3,433,051	3,433,705	3,433,954		3,433,977	3,434,053	3,434,061
3/11/69 f.	3/11/69	3/11/69		3/11/69	3/11/69	3/11/69		3/11/69	3/11/69	3/11/69	3/11/69	3/11/69	3/11/69 Max.
R. W. Ats 3 Canoga Park, Calif.	W. L. Jackson Eayward, Calif.	K. Langrod Sherman Oaks, Califf. R. L. Jones	Cances Park, Calif.	M. V. Anderson Eayward, Calif.	P. Fortescue La Jolla, Calif.	E. A. Desn Monroeville, Pr.	E. A. Recobe, Jr. Pittsburgh, Fa.	J. L. Seith Flessont Hill, Calif. D. W. Willen Berkeley, Calif.	E. O. Anger Berkeley, Calif.	R. J. Walber Walsut Creek, Calif.	J. B. Echison Livermore, Calif	E. E. Kimble Eboxville, Yenn.	R. G. Euse 3/ Alboquerque, N. Max.
	LASSE OPTICAL ALICHING METHOD AND APPRACTUS	DESIGNATION OF CAMBITE WITH REPACTORY CAMBIDES		DOVETAIL HONSTOOMS	NUCLEAR REACTOR SYSTEM WITH PISSION GAS NEWVAL	656,955(60) TUEL ASSEMBLY FOR A SUCIESA ERACTOR		CACE DEVICE FOR PEASUREMENT OF ICUSITY PROFILES OF SHOUNCE	GAPER-RAY CAMERA FOR DAGGING RADIOSCOPING DIS- TRIBUTION IN A TRANSVERSE SECTION OF A ROTATING SUBJECT	AUTOMATIC SEPARATION COLDEN PROSOCI ANALYZER	HIGH WITHOUR FIRED-METERSAL, FWINSE GENERATOR UNION A LASER SWITCHISCHES TO ACTIVATE A FIRED EMISSION I-RAY TURE	INDADACTOR DEVICE FOR PRO- VIDIDG A CONSTANT DOSE BATE	TRICCHED VOLT-SECOND GENERATOR
654,038(60)	538,916(60)	392,042(60)		502,687(60)	725,558(60)	656,955(60)		597,150(60)	720,174,(60)	591,378(60)	410,328(60)	617,018(60)	437,331(60)
3,431,860	3,432,240	3,432,336		3,432,379	3,432,388	3,432,390		3,432,656	3,422,660	3,432,662	3,432,664	3,432,665	3,432,682

4/29/69

P. C. Salgado White Bock, Los Alemos, S. Mex.

RICH INCREMENTARE STRESS FREE THERMOCUPIC JUNCTION

591,011(60)

3,441,451

4/29/69

L. C. Williams Cliston, Tenn.

FUEL ELECTRIC FOR NEUTRONIC REACTION AND METHOD OF PAS-

717,115(60)

3,441,478

4/29/69

E. I. Onstott 4/

ELECTROLITIC DESALDATION OF SALDIS WATER BY A DIFFE-METIAL REDOX METHOD

394,370(60)

3,441,488

4/22/69

V. R. Martin J. E. Weir Cak Ridge, Term.

STAINLESS STEEL ALLOY EX-REBITING RESISTANCE TO EM-BRITILDHENT BY NEUTRON IR-RADIATION

M. G. Strauss 4/ Downers Grove, III.

C. C. Hpley Sem Jose, Calif.

NUCLEAR REACTOR STREAMLIC OC. TROL. DRIVE SYSTEM

694,536(60)

3,438,856

ANTILOGARITHMIC PUNCTION GENERATOR

569, 759(60)

3,439,187

506,914(60)

3,440,037

D. L. Basdekas San Antonio, Tex.

523,997(60) METHOD FOR MERSHAL CONTENT OF FUELS

3,436,538

4/29/69

E. J. Tuthill 4 Belle Terre, N. T.

PACKETICALLY STABILIZED FLUTDIZED BED

526,327(60)

3,440,731

4/29/69

P. R. Bell C. C. Harris Oak Eldge, Tenn.

COULD RECORDED AVERAGING LIGHT INTENSITY METER

452,951(60)

3,441,351

B. 2	DATE	69/11/19
	DWENTORS	Cliston, Tenn. 2. A. Chilenskas 4/1/69 Chicaco, III.
PATRIES FOR LICENSING	ORIGET MEASUREM BY THESE.	TERRESTRY CLIROW, Term. 712,391(60) FLUTOWILM SUBLIMITION 2. A. Childrens 4/1/69 Chicago, III.
	SER. NO.	712, 391 (60)
WOL. KIK June 24, 1969	3.436.153	3,436,193
3/12/69 5. Noz.	3/25/69	3/25/69
C. E. Lend G. E. Heertling Albuquerque, S. Hez.	D. E. Swanson 3/25/69 Missisburg, Okto	A. Kevey Setauket, N. Y.
331,475(60) MOLTIEDANDOUS FERNORIZATION C CEDANIC MENORY ELEMENT A	713,410(60) SEPARATION OF ACTINITY AND D THORITM FICH UNANTUM AND ITS M DAUGHTERS	613,075(60) NEUTRON SPECTROHETER POR . 8. HIGE NEUTRON FLUX
351,875(60)	713,410(60)	613, 078(60)
3,434,122	3,434,809	3,435,219

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5/20/69	8/12/69	8/11/69	5/22/69 r.	5/27/69	89/11/5	- 1	5/27/69	69/5/9	6/3/69	6/10/48	
NE A. C. Odien F. Beles Fale Alto, Calif. F. Villa Los Altos, Calif. D. E. Yout Menlo Park, Calif.	C. E. Frants F. P. Vlacii Richland, Varh.	C. T. Hoard Oakland, Calif.	E. L. Head 5 Los Alvanos, M. Mex.	M. F. Lyons B. Weldembeum Sam Jose, Calif.	T. A. Romanovski Eleburat, III.	C. J. Rush Bouners Grove, III.	E. L. Sayder New Sayrns Beach, Fis.	R. E. Thoms, Jr. Osk Ridge, Tonn. G. M. Hebert Eboxyille, Tenn.	H. Seiwatz Oak Park. III.		L. D. Esssell, Jr. Beltimore, Md. T. R. Barker II
FULSE-SHAPING TRANSMISSION-LINE A. C. Odden TRANSFORMER FOR A DOUBLE-CAP F. Bulos STREAMER CHAMER P. Palo Alto, Ca. F. Villa Los Altos, Ca. D. E. Pount Menlo Fark, C.	616,435(60) POSCE READORT STSTEM	639,153(60) DYERRAL RETAINED RING	PREPARATION OF THE PARE EASTH SESSIFICATIONALES	NETHOD OF CFEATING A NU-	BEICH-VOLTAGE PULSING APPA- RATUS FOR A SPARK CHARKER		NECESSIONLY SETTANS MG- NETIC EBGISTER	COULAIT SALT FOR A MILIEN SALT PREZEER REACTOR	HETHOD UTILIZING AN ELECTRON HEAN FOR ESPESTHACTIVELY	MEASURED THE DELECTRIC PRO- PRETIES OF A SANCE.	METICO
667,338(60)	616,433(60)	639,233(60)	711,527(60)	683,374(60)	648,534(60)		526,333(60)	597,145	(19,589(60)	Cal Londson	
3,445,661	3,446,067	3,446,522	3,446,574	3,446,703	3,447,032		3,447,144	3,448,054	3,448,377		
G. M. Grover Los Almons, N. Max. C. A. Busse Lavana, Italy R. J. Caron Lapra, Italy	J. E. Hemmel 4/29/69 D. A. Baker L. C. Jurkhardt J. K. Differco	R. M. Esnson H. J. Karr J. Marshall	E. E. Hanlin 5/6/69	W. J. Ramery 5/6/69	D. H. Wood Livermore, Calif.	M. L. Smith 5/6/69 Kennevick, Mash.	C. J. Renken 5/6/69 S Orland Park, III.	J. M. Brinkerboff 5/6/69 Arlington, Mass.	G. L. Silver 5/13/69 Centerville, 0.	J. G. Carter 5/13/69 L. G. Christophorou Oak Ridge, Tent.	E. J. Wheelwright 5/20/69 Michland, Weeb.
504,269(60) THEMONIC CONTRIER DEVICE	PLASMA COSTA DIRENT DEFICE		641,424(60) ON-OFF SHITCH FOR ELECTED-	PRIPARATION OF PUTONITH		POCIET DADIATION DOSIDETER UTILIZATIO CAPACITOR DITE- CRATOR	PULSED ELECTROMAGNETIC TEST- C. J. Benken DAS DAVICE WITH SAMELIES NEARS Orland Park,	VARIABLE PREQUENCY BICH SEN- SITIVITY KICHCANE SPECTROS- COPY	SEPARATION OF URANIUM AND INCRIUM FROM PLUTONIUM	566,090(60) EXCINER SCHTHLATORS	ION EXCHANGE PROCESS FOR RE. E. J. Wheelwrig COVERING AMERICIEM AND CURISM Richland, Week
504,269(60)	(09) 100 (165		641,424(60)	728,369(60)		(695,971 (50)	(691,959(60)	570,144(60)	724,357(60)	366,090(60)	716,497(60)
3,441,752	3,441,775		3,442,217	3,442,642		3,443,097	3,443,212	3,443,217	3,443,912	3,444,089	3,445,201

6/24/69	69/54/9	6/24/69 E.	6/24/69	6/24/69 tr.						
	d	Encaville, Tenn. D. F. Filles 6/7 Albuquerque, N. Mex.	H. Hahm 6/ E. Patchogue, N. Y. H. J. Halama Shorehen, N. Y.	D. F. Wilkes 6/2 Albuquerque, N. Max.						
638,289(60) CENTRIFYCAL CASTING AFFAMATHS J. L. Frankeny v. Arreda, Colo. K. E. Wolles	728,911(60) METEOD OF SEPARATING NEP- TURIUM AND URANIBM VALUES	643,314(60) BOLLER-BAID DEVICES	HICRORAN DEPLECTION STSTEM FOR SUPERCONUCTION PARTICLE SERVENDA	683,376(60) RCLLER-MAND DEVICES						
638,289(60)	728,911(60)	643,314 (60)	642,663(60)	(683,376 (60)						
3,451467	3,451,790	3,432,175	3,422,191	3,452,309						
6/10/69	67/01/9	6/10/69		6/10/69	6/10/69	69/01/9	6/11/9	6/17/69 fex.	6/11/69	6/24/69 ex. Itealy
G. E. Oak Sem Jose, Calif.	E. J. Warge, 6/10/69 Reachwood, Ohio	hes, o	H. D. Gibson Cincinnett, Ohio J. V. Smith Springboro, Ohio	G. C. Buth 6/10/69 Rosenout, Ps. R. A. McKinney Philadelphis, Ps.	K. A. Kreus K. A. Kreus A. B. Marcfalowsky M. D. Phillips A. J. Soor Oak Ridge, Tenn.	J. J. Eenry 6/10/69 Oak Ridge, Tenn.	T. P. Sprague 6/17/69 Cilaton, Tenn.	W. S. Webb 6/17/69 Albaquerque, S. Mex.	E. J. Seppi 6/17/69 Manlo Park, Calif.	G. M. Grover 6/24/69 Los Alamos, M. Mex. C. A. Besse Sureno, Verese, Italy J. Bobdansky Taino, Verese, Italy
C. R. Oak Sam Jose, Calif.	METHOD OF INCREASING THE E. J. Wergo., CORNELS-MASED ALLOTS TO MERCHINE	ZIRCONIA-EASED THERMOELECTRIC C. I. McVey 6/10/69 COMPOSITIONS Shaker Heights, O. B. McCommanghey Lynchburg, Ohio	H. D. Gibson Cincinnett, Ohio J. V. Smith Springboro, Ohio	G. C. Buth Rosenont, Pa. R. A. McKinney Philadelibia, Pa.	PEDEL AQUIDOUS SOCUTIONS E. A. Kreus A. E. Marchinowsky B. O. Phillips B. O. Phillips A. J. Shor Oak Eldge, Tenn.	J. J. Eenry Ook Eidge, Tenn.	CORNOSION OF UTANIEM METAL I. P. Sprague CORNOSION Cliston, Tenn.	GAS SHIELDING DEVICE W. S. Webb Alboquerque, N. M.	R. J. Seppi Menio Fark, Calif.	WARDE PRESSURE CAUCE AND G. M. Grover 6/24/69 CALGEDGITZ FOR HIGH IES- Les Alamos, N. Mox. G. A. Busse Levento, Varese, Italy J. Bohánniky J. Bohánn
	E. J. Vergo., R. Reschood, Ohio	hes, o	H. D. Cibson Cincinnet, Chio J. V. Smith Springboro, Chio	i ii	J. S. Johnson K. A. Ersus A. E. Marcinowsky H. O. Phillips A. J. Shor Oak Ridge, Tenn.	Team.	T. P. Sprague Cifaton, Tenn.	W. S. Webb Albuquerque, N. M.	SARCED E. J. Seppi Menlo Park, Calif.	G. M. Grover Los Alamos, N. Most C. A. Besse Lawton, Verese, It J. Bobdansky Tatho, Verese, Its

7/8/69	1	1/15/69	7/15/69 Nex.	1/22/69	1/22/69		69/22/1	1/22/69		1/29/69	Il ZSI BS		7/29/69	8/5/69
R. M. Wallace Aiken, S. C.	Livermore, Calif.	E. Medal Mash., D. C.	G. E. Keepin hos Alamos, N.	J. W. Bern	H. W. Miller Albery, Calif.	Q. A. Kerns Oriods, Calif.	T. V. Blalock Enorville, Tern.	E. W. Johnson Lockport, III. T. E. Elfonert	Lomberd, III. W. J. Ramler Elmburst, III.	A. J. Schwemin Onkland, Calif.	J. C. Kins //2 H. Elverside, III. La Verne E. Treverrow Glee Ellen. III.	M. J. Steindler Fark Forest, III.	D. A. Bryenhall Quoque, N. T. G. Schwender Shorehan, N. Y.	E. E. Sood Eboxville, Tem.
CONCENTRATION OF IGNS USING ION SELECTIVE MEDICANCES	seconds think section	THERMOSTATIC WALVE	DETECTION, IDENTIFICATION AND ANALYSIS OF PISSIONARIA ISOTOPES	DOSE EQUIVALENT PADIATIONS	OFFICAL DAGE AMPLIFIES UTILIZING ELECTRON	AVALANCEES IN A GAS	DOCULE DELAY-LINE FILTERS FOR FULSE APPLIFIESS	ELECTRON PULSE GENERATOR. OF THE GROUNDED GRID TYPE EMELOTING A DELAY LING.	STDBAGE HEANS	LASER BEAM OPERATED T-T	AND FAUTORITH BY A LITHIUM FLUORIDE SORFIJON TECHNISH PLUORIDE SORFIJON		TAPE REEL IDENTIFIES AREASCEDENT ENFLORING LIGHT REFLECTIVE CODED LANGE.	NETHED OF DEAEMATING SEASINGES
571,653(60)	funlture lane	\$22,328(60)	646,157(60)	643,318(60)	694,328(60)		\$35,657(60)	645,582(60)		576,196(60)	(ma) rep'ers		365,495(60)	758,931(60)
3,454,490	· molecule	3,455,506	3,456,113	3,457,413	3,457,418		3,457,516	3,457,517		3,457,646	Tribund.		3,458,706	3,458,972
B. 3	DATE	4/12/69			6/11/69	69/1/12		2/1/28	69/1//2	7/1/69	1/1/69	1/8/69	7/8/69	1/8/69
	INVESTORS	F. D. Lonadier Mamisburg, 0.	F. C. Fushind Pyton, O. G. L. Silver	Centerville, 0.	G. F. Pendirts V. L. Bell, Jr. Mewport Hews, Va.	J. L. Arrowood W. A. Groppe	W. W. Lee, Jr. Oak Eidge, Tenn.	P. De-Twan Me. Esinchn, Taiwan, China	A. C. Haller Taphank, N. Y.	M. T. Abegg D. M. Hall W. B. Leslie Albequerque, M. P	T. de Parry Elmburst, III.	N. Milleron Berkeley, Calif.	W. A. Pitt R. B. Lemon Sen Jose, Calif.	E. A. Franco- Perreira Mashville, Tenn.
PATERTS FOR LICENSING	INVENTION	ION EXCHANCE METHOD FOR PREPARING METAL OXIDS	MICHOSPHERES		DOSIMITE FOR HIGH LEVELS OF ASSORSED PADIATION	TIACE SCANFING		FOUR QUADRANT LOCARITHMIC MENTIFLIER FOR TEMS- DEPRIDUNT SIGNALS	CONTROLLED DEFECT COLORA- TROW DOSIDETER	OFFICAL MASER STSTEM	EDGS-PERCHENT, WIRE- MAND TRANSFORMER	FINS FOR ELIDINATING BACK- STREAMING IN A WOUNN TONE	NOCLEAR REACTOR COSTAINMENT STSTEM FOR METROPOLITAM SITES	FUEL ELEMENT FOR NEUTROWIC REACTOR AND METROD OF FAURICATION TYSINEOF
696	SER. NO.	\$89,467(60)			900,286(50)	\$94,985(60)		536,590(60)	(09) (1992, 867 (60)	485,643(60)	715,352(60)	678,116(60)	694,538(60)	117,226(60)
VOL. IIX Septomber 30, 1969	PATENT NO.	3,438,749	All		3,430,818	3,453,050		3,453,423	3,453,430	3,453,558	3,453,574	3,454,214	3,434,466	3,454,468

r. 8/12/69	s/111/69 u.	8/12/69	8/12/69	8/26/69 Y.	8/22/69	8/22/69	8/25/69	8/26/69	8/26/69	į	
W. F. Splichel, Jr. 8/12/69 W. Augusta, S. C.	D. von Ehrenstein Westhout, III. D D. C. Esss Downers Grove, III.	C. L. Moulton Roorville, Tenn.	R. A. Beth Bellport, N. T. J. J. Asbury	E. Withrell Mading Elver, M.	C. L. Ritter L. A. Bray Richland, Mash.	H. A. Wilhelm J. E. Bellunky	D. W. Rhodes M. W. Wilding Idabo Palla. Idabo	G. J. Crendall Sorthport, Nash.	C. L. Pitzgerald DS Kingston, Tenn.	R. W. Godbes Oak Eidge, Tenn. K. H. McCorkle, Jr. Powell, Tenn.	
LOW LEVIEL BADIATION HONITOR	MCTHOD FOR CENERALING A D. woe Ehreen BEAM OF LOUS SEEKELN FOR WESTBOOK, III JUNES ARE CONSILIED FOLKRIZED D. C. Herss Grow	STSTEM FOR CONTROLLING THE RESPONSE OF A PROTOCLECTRIC TAPE RELAIR ST PULLIZING AN "OR" GAIT AND A DELAY TO STRUALS	2-e POLE ELECTROMACHET POR POCUSING CHARGED PARTICLES PARRICATION OF ELONGATED	VOLDETEIC FLOV MASTREDEST	SOLVENT ELEPACTION PROCESS FOR PURIFYING AMERICAN AND CURIUM	CARBON REDUCTION PROCESS	RECOVERY OF MERCERY FROM MUCLEAR FUEL MEPROCESSING MASTES	FUEL PIN SPACESS	ONWIESTON AND CONTAINMENT C. L. Pitzgerald OF EADIOMCTIVE ORGANIC LINGINS Kingston, Tenn.	and state out	
\$94,325(60)	517,868(60)	616,436(60)	662,207(60)	(09) 286(60)	744,353(60)	751,339(60)	679,668(60)	747,320(60)	725,890(60)		
3,461,292	3,461,296	3,461,305	3,462,410	3,463,004	3,463,619	3,463,634	3,463,635	3,463,703	3,463,738		
8/2/88	8/2/69	4 .	8/2/69	8/12/69	8/12/69	8/12/69	8/12/69	8/12/69	8/17/69	8/12/69	8/12/69
J. H. Germer San Jose, Calif.	J. H. Wilson H. H. Goosey A. H. Dexter Afken, S. C.	Los Alemos, N. Mac. V. E. Modder V. E. Modder Confedera, Calif. L. G. Page Senta Ana, Calif. Sierra Mara, Calif.	R. Asland O. S. Zucker Livermore, Calif.	T. M. Gayle Oak Eldge, Term.	J. L. Long Arvada, Colo.	E. A. Wilhelm R. M. Bergman Ames, loss	M. A. Jenfail Errockhaven, N. Y.	M. H. Lloyd 2. C. Esire Oek Eidge, Tenn.	F. O. Salter Glea Ellyn, III.	C. N. Jackson, Jr. 8/12/69 W. C. Spear Richland, Wash.	G. Oster New York, N. T.
VENTED PURE PER	RICH SPEED TOOFTAINES MONITOR		HIGH EMERGY PULSE CEMERATOR UTILIZING A DECOUPLING TRANSPORMER	CATALYTIC COMBUSTION DE- TECTUR POR CAS CHROMAID- GRAPHY	RECOVERY OF AMERICIAN PROH. J. L. Long FLUTOSIUM HETAL USING MOLIEM Arreda, Colo. SALTS	METALS WITH CARRON TETRA- CELORIDE AND CARRON DIVILIE	P-CONTACT FOR CONTENSATED P-GENMANIM CRISTAL	PROCESS FOR PREFARING PLU- TOWIA AQUASOLS	METHOD OF ENCODERG MEMORY PROTECT DATA	MEASURED AND APPARATUS FOR MEASURED THE VOID FRACTION OF STDROCEROUS FLUIDS	CERDICAL DOSDETER
747,321 (60)	300,452 (60)		635,985(60)	477,355(60)	710, 728(60)	697,314(60)	665,688(60)	764, 958 (60)	618,284(60)	731,521(60)	538,158(60)
3,459,636	3,459,923		3,459,960	3,460,909	3,460,917	3,460,918	3,461,005	3,461,076	3,461,237	3,461,286	3,461,288

S. I. Mordano 9/9/69 Fort Jefferson, M. Y.	E. T. Sylvester 9/9/69 Alboquerque, M. Mex.	E. F. Welch 9/23/69 Ennses City, No.	L. M. Finch 9/23/69 A. J. Anthony Pasco, Mash.	Afken, S. C. Afken, S. C. E. R. Brady Sterra Madre, Calif.	A. A. Chilenskas 9/30/69 J. S. Kincinss Chicano. III.	J. G. Bayly 9/30/69 Deep Biver, Ontario,	Cenada W. E. H. Fanofsky 9/30/69 Los Altos Hills, Calif.	W. F. Marshall San Carlos, Calif.		Orinds, Calif.		
ACCELERATOR APPREATES AND S. HETBOO OF SEAPING CAVITY POT	CROWNDING DEVICE IN AN R. ELECTRICAL CONSECTOR AIN	QUICK RELEASE COUPLING E.	LIGHT SUBASSERIT FOR A L. LIGHTD-METAL-COOLED, PAST A. BREEZER HUCLEAR HEACTOR PA	ANALOG-TO-DIGITAL CONVERTEZ N. A11 E. S14	SECULIS PENTATUORIDE A. DISPOSAL J.	FOC DENSITY MEASUREMENT ST J. L-RAY SCATTERING Dev	STATICHED REPERENCE WIRE W. MACHETIC PICKIP ALIGNMENT LO	SYSTEM SAL	WIN SLIDING LOAD AND PROBE Bethesda, M. Malli-conflict SElbords Swifts W. L. Deater	FOR HIGH CURRENTS OF		
623,190(60) ACC NETS	697,508(60) CHC	701,008(60) qui	771,738(60) FFE LIN BER	505,754(60) AN	690,109(60) BE	523,002(60) FO	625,920(60) STI	STS CONTRACT OF				
3,466,554	3,466,590	3,468,169	3,468,757	3,469,254	3,469,936	3,470,372	3,470,460	24.00.40	3,470,563			
W. W. Schulz 8/26/69 . G. F. Schlefelbein Richland, Wash.		J. A. Higgersteff 8/26/69 Oak Ridge, Tenn. E. Nutt	G. F. Erickson 9/2/69 Los Alamos, M. Mex.	ild.	W. E. Pierre 9/9/69 Los Altos, Calif.	· u	W. T. Mard 9/9/69 R. E. Adams Oak Eidge, Tenn.	C. O. Tarr 9/9/69 L. V. Owen Cincinnati, O.	L. M. Finch 9/9/69 Fasco, Wash.	P. Exchands 9/9/69 Bayport, N. Y. J. Daranosky Stony Brook, N. Y.	A. P. Schiles 9/9/69 Albaquerque, N. Mex.	R. A. Beth 9/9/69 Bellport, M. Y.
METHOD FOR RECOVERING POLOWIUM-210 FROM BISMITH		PRA COREST METLE	MELAT ACTUATED CONTROL ROD WILLIAMS A CADRIDA- WAY COLIN MATTHE	NETRO FOR MAKING MASSALL.	DIODE SENSORS FOR LIQUID	N N	NETTEOD OF RENOVING SADIO- IDEDIC VALUES FROM A CASSOUS MEDIUM	METHOD OF PRODUCING PUBLICATION REPRACTION METAL AND ALLOY POWNERS	SLAST SEIZLD FOR NOCLEAR REACTOR	TECHNETINA-99m LABELED CRELATES	COSTAINER FOR RADIDACTIVE FUR, ELEVENIT	CANCELATION OF EXTERNAL MACKETIC FIELDS BY INNER AND OUTLE CYLINDRICAL CURRENT SHEETS
734,198(60)		612,292(60)	679,828(60)		686,002(60)	fool tot foro	642,290(60)	634,795(60)	(669,957(60)	722,208(60)	674,068(60)	626,674(60)
3,463,739		3,464,013	3,464,889	3,465,431	3,465,587	5,4405,514	3,466,137	3,466,203	3,466,227	3,466,361	3,466,445	3,466,499

						.5			NO	TICES		
10/14/69	10/11/69		10/21/69	10/21/69	10/28/69	8	10/28/69	10/28/69	WHEN THE	10/23/69 Mex.	11/4/69 Nex.	11/4/69
G. W. Parker Downers Grove, Ill.	J. H. Shaffer	W. R. Orines Oak Ridge, Term. D. M. Moulton	J. C. Hogan	Clacimati, 0. H. B. Culpepper W. O. Gentry	Oak Ridge, Teen, W. J. Dyron	Idaho Fails, Idaho	Los Angeles, Calif. W. D. Kingery Marion, Nass.	J. G. Marray Cranbury, N. J.	E. D. Simon G. Bronner Trenton, N. J. G. D. Edmonds	J. B. Noe 10 Albaquerque, E. Mex.	J. W. Woolsey I Los Alsmos, N. Nex.	E. O. Creek Richlend, Sash. B. W. Leiby Cincinnati, O
MADIATION PLUG FOR A PARTICLE ACCELERATOR BEAN TUBE	NETHOD FOR SZPARATING	FROM SPERT NACTOR FLUORING SALT MATTURES CONTAINING	MOLYDOSKON OXIDE PILM	ALAIM STISTEM FOR UR, DI ALE	DEVICE FOR HEASURING THE	WELLING THE DIFFICED FREEZED	MICHEL FERBITE THEN FILES LOS ARGELS. WICKEL FERBITE THEN FILES LOS ARGELS. W. D. KINGEN Marting, Mass.	HEAVY CURRENT ARCING SWITCH		TEANS ISTOR OSCILLATOR BAVING DOTSECRANGEARIA ES- ACTIVE HETWORKS	HETEOD OF CHANGING GLOTES IN A CONTROLLED ENVIRONMENT BOX	APPARATUS FOR CERCEING DIS- PORTION OF A REACTOR FUEL RESCHE
614,783(60)	745,837(60)		594,318(60)	. 668,311(60)	712,974(60)		648,544(50)	694,545(60)		716, 761 (60)	623,181(60)	726, 301 (60)
8	. 16		00		-	5	8	2			8	2
3,473,029	3,473,897		3,474,007	3,474,622	3,474,671		3,475,309	3,475,620		3,475,698	3,475,608	3,475,825
* 4	BATE	10/7/69 Tenn.	16.	10/7/69 m.	10/7/69	10/7/69	10/7/69		10/7/69	10/14/69	10/14/69	
	INVENTORS	J. R. Eackman 1 Mount Juliet, Tenn.	E. S. Erwice Livermore, Calif	R. L. Beatty Oak Edge, Tenn. B. V. Epilinger Concord, Tenn.	K. T. Faler Pocatello, Idaho	D. F. Wilkes Albuquerque, N.	E. J. Thomas Onkland, Calif		E. Sutter Chicago, III. H. H. Booker Reperville, III.	L. E. McMesse M. E. Whatley Oak Eidge, Tenn. J. S. Matson Eboxville, Tenn.	H. Beutlar Oak Eidge, Tenn.	Cincinnett, 0.
PATENTS FOR LICENSING	DATATION	LIQUID FLOW CONTROL DEFICE	DYTENTERORETIC METHOD AND APPAIATOS	PROCESS	ASTABLE NUTRON SHIELD	ROLLER-TAND DEVICES	AND DISPLAY OF PACES AND DISPLAY OF PACES STORAL STREAMS OF AN ALTER TREAMS TRANSIS- TION IN A TANNELISSION	TOR	ELECTRICAL CONSCION FOR	LIGHT-LIGHT ETHOUAL OF PROTESS SALT MIXTURES COSTAINED TANDERS OF	METHOD FOR APPLYING LOW DESCRIPT CARSON COATINGS	
6961	SER, NO.	620,211(60)	591,655(60)	(cg, \$26(50)	767,821(60)	683,375(60)	620,212(60)		X40, 092 (60)	749,724(60)	538, 923 (60)	
WOL. KIK December 30, 1969	PATENT NO.	3,470,902	3,471,238	3,471,314	3,471,414	3,471,668	3,471,783		3,471,826	3,472,633	3,472,677	

11/25/69	11/25/69	Califf.	11/25/69	11/25/69 Y.		11/25/69 Nex.	N. Ner.	12/2/69 C.	12/2/69	12/9/69 Y.	12/9/69 Wash.	12/9/69	Nex.
D. U. Morgram Orinda, Calif.	100.00	Castro Valley, Cal P. S. Archibald Fleasanton, Calif.	M. G. Strauss Downers Grove,	R. L. Chase Blue Point, H.	V. Indeka Upton, N. T.	R. P. Matthews Albuquerque, N.	G. J. Simons Cedar Crest, N. F. J. Pjeser Albuquerque, N.	R. W. Levan N. Augusts, S.	I. I. Anderson Downers Grove,	E. J. Turbill Belle Terre, N. Y J. J. Bellly, Jr. Bellport, N. Y.	A. K. Postme Benton City, Ma	M. C. Brupks A. L. Clorgi N. S. Krikorian	E. G. Szklere Los Alamos, M. Mex.
METHOD AND APPARATES FOR DETECHING DRICE ASPRETED IN OFFICAL LENSES	MELTIPRASE EXTRIBABLE EXPLO- SIVES CONTAINING CYCLOTRI- METER-EXETRINITEANING OR	CHICATERACTHICESTERM.	LOCALITEMENT FUNCTION GENERATOR	PARAMETRIC PRE-AMPLIFIER CINCUIT FOR CRASSED PARTI-	CLE DETECTORS	PULSE RECORDING HEAKS		NETHOD OF EXTROSION OF RIBBID COMPOSITE NEHEERS	PEANTASTRON DEIVE FOR ICHTEONS	APPARATUS FOR CONTINUOUS CHECK-TOCRAFHIC SCRAMTIONS	ELUTETATOR	HIGH PRESSURE PREPARATION OF YTTRIBM SESQUICARBIDE	
380,369(60)	388,987(60)		369,761(60)	596, 734 (60)		402,371(60)		690,700(60)	639, 255 (60)	740,365(60)	764,476(60)	707,476(60)	
3,480,366	3,480,490		3,480,793	3,480,870	*	3,480,921		3,482,003	3,482,144	3,462,376	3,462,692	3,482,940	
11/4/69	11/4/69	11/4/69	11/4/69	11/11/69	11/11/69		11/18/69	11/18/69	11/18/69	11/18/69	11/18/69	11/18/69	11/25/69
L. W. Eartzel eyton, 0.	E. F. Turner Sen Diego, Calif.	J. G. Saith	362	C. L. Estes Oak Eidge, Tenn.	D. L. Horrocks Raperville, III.	Argonna, Ill.	R. F. Bornbeck Livermore, Calif.	Dekiyne A. Lee Enorville, Tenn.	C. C. Ripley San Jose, Calif.	T. E. Thompson idabo Falls, Idabo	C. Wohlberg Greensburg, Pa.	E. L. Garvin Los Alatos Hills, Calif.	I. E. E. Lorbeer Livermore, Calif.
PROCESS FOR RECOVERING FILLER L. W. Eartrel 11/4/69 FROM ELASTONER Deyton, 0.	FUEL SECRECATION LOADING AR- PANCEMENT IN MUCLEAR FUEL S SIDENTS	PROCESS FOR PREFARING AN WITHIN AQUASOL	MACHETICALLY SETTABLE COUNTER G. R. Bachand Albuquerque, N.	WELDING BESTYLLTON NETAL C	2-ANTL INDOLES AND NETHODS		COAFT-COPCLINES COLLINE SUPPOSE PATERIAL FOR LIQUID- LIQUID PASTITION CRICIAND- GRAFIT	EXCRACTION OF LITHING WALKS Devision A. Les Reception, Tens	IN-SEACTOR CONTROL DRIVE STREET	MCTING OF REDUCING MADID- ACTIVE MASTE SOLUTION TO PHENESS	HETEOD OF POSHING COMENCIED CEMPHITE BOOLES	COATIAL LIGHT SOURCE VITH SERIES DEPRINCE VITHIN THE ENTLOPE	DECKNOWL MASSWING MCHINE E. H. Lorbest FOR TEST SPECIOUS Livermore, Cali
639,597(60)	769, 661 (60)	398,734(60)	508,171 (60)	677,009(60)	(09)(19)		628,249(60);	596,342(60)	694, 728 (60)	(09)956 (69)	689,298(60)	685,179(60)	797,764(60)
3,476,526	3,476,645	3,476,691	3,476,919	3,478,189	3,478,208		3,478,886	3,479,147	3,479,250	3,479,285	3,479,423	3,479,355	3,479,745

12/16/69	69/91/11	12/16/69	12/23/69	12/23/69	. I .	12/23/69	12/12/69	12/23/69	12/22/69	12/30/69	12/30/69
R. P. R. Cheesemen Princeton, N. J.	R. L. Hoddleston 12/16/69 Rocryille, Term.	G. I. Esbeock Menlo Perk, Calif	G. H. McCall Princeton, N. J.	H. S. Clay Palo Alto, Calif. H. P. Defnices		S. E. Bodner Berkeley, Calif.	S. S. Shapiro Trenton, M. J.	E. Zane Elcimond, Calif.	J. E. C. Williams 12/23/69 Cambridge, Mass.	J. S. Armijo Sewark, Calif.	C. C. Ripley
MALFUNCTION ALABS AMMINISTATOR P. R. Cheeseman 12/16/69 Princeton, N. J.	HYDROSTATIC EXTROSION AP- PARATUS	THERMALLY STABILIZED CLASS A OR CLASS B CONFLECHTARY TRANSISTOR FUSH-FULL AMPLI- FIRE	HIGH-SPEED FRANDIC CANERA SPEETZH	CENTRIFICAL FORF BAYDIG A: SHAFTLESS DOELLER PARTICLE STRANTOR		NETHOD AND APPARATUS FOR DIVECTION AND TRAPPING CRASCID PARTICLES IN A PAGINETIC FIELD.	TRESPOELECTRIC COMPOSITION COMPANIES DISMITH TELLURIDS SILICON AND BORON	CIRCUITY FOR OSTAINING PRECISELY CONTROLLABLE NOTICES IN A MOVING COIL ACTUATOR	SUPERCONDUCTOR MACHET AND METSOD	STADELESS STEEL ALLOY WITH LOW PROSPHORES CONTENT	PLUTDIC ACTUATED CONTROL.
577,117(60)	710,810(60)	726,006(60)	644,465(60)	725,374(60)		679,826(50)	413,283(60)	591,656(60)	(09) 523 (60)	628,167(60)	694,537(60)
3,484,770	3,484,806	3,464,867	3,485,159	3,485,177		3,485,716	3,485,757	3,486,094	3,486,146	3,486,885	3,486,975
12/9/69	7	12/9/69	12/9/69 x.	12/9/69	12/16/69	12/16/69	12/16/69	12/16/69	Co. Co.	12/16/69	
LaVerne E. Trevurrow Glen Ellyn, Ill. 12/9/69 T. J. Cerding	Dougers Grove, III. M. J. Steindler Park Forest, III.	D. W. Sparks LeGrange, III. J. H. Tessier Ingleside, III.	M. D. Coburn 1 Los Alamos, N. Max.	C. J. Borkowskil M. K. Kopp Osis Ridge, Tenn.	D. E. Grosvenor Purr Ridge, III. W. E. Miller Maperville, III.	J. T. Occhran San Jose, Calif. G. D. Collies Les Altos, Calif.	S. J. Wheatley Clinton, Tem. B. B. Rains Kingston, Tems.	E. H. Becker Oak Eidge, Tenn.	Orthodo, Calif.	P. A. Thieberger Shirley, N. Y.	
MEPTUNISH SEPARATION PROM URANIUM		STABILITY DUROYZHOYT FOR RUCLEAR PEACTOR AUTOMATIC COMPRING, SYSTEM	3-FICETARINO-1,2,4-TRIAZOLE AND INS PREPARATION	POSITION-SENSITIVE RADIA- TION DETECTOR	SEPARATION	COLD TRAP PILTER	PRENCLIC POAM COMPOSITION	ST DOLLATED EXCELECTION BACKSTON DOSDIGETERS	ATUS MAYEORYS BY SELECTION AND STORAGE OF PULSE DECRE- MEDIES	FULSE REIGHT COMPENSATION	WESTON
736,033(60)		262,181(60)	640,446(60)	680,428(60)	(09)618(529	612,291 (60)	542,697(60)	761,470(60)	(m) נחס' נכני	593,599(60)	
3,482,949		3,463,081	3,483,211	3,483,377	3,463,913	3,483,980	3,464,391	3,484,610	92 UL	3,484,703	

1/13/70

BOSIDETER FOR PERFAUETLY R. H. Kernohan RECORDING THE EFFECTS OF Oak Ridge, Tenn. AN INTEGRALED FAST NUCLEUM S. T. Sekula DOSE

3,469,900 694,705(60)

24160							NOTICE	5	
1	DATE	1/6/70	1/6/10		1/6/70	1/6/70	1/6/70	1/13/70	1/13/70
á	DAYENTORS	J. S. Noon Nex. City, Nex. T. Vermeulen Berkeley, Calif.	Hinsdale, III. C. E. Johnson Elk Grove, III. M. S. Foster	Raperville, III. E. J. Cairns Downers Grove, III.	V. F. Zackay Berkeley, Calif. E. R. Perker Oakland, Calif.	R. Beutler Cak Ridge, Tenn. J. M. Robbins Oak Ridge, Tenn.	C. A. Tobias Welnut Greek, Calif.	G. S. Raynor Manorville, N. Y.	E. E. Schmidt Douners Grove, III.
PATENTS FOR LUCESSING	DATATION	JET-FULSED LINGID-LINGID EXTRACTION COLUMN	ELECTROCEPHOL CELL		TRANSH OF STEEL	PROCESS FOR CONSOLINAT- ING NUCLEAR FUEL EMETICLES	ION MICROSCOPE THE DRACE OF WHICH RETRESENTS I.E. ILEASILY OF SECURIONARY MAD- MILTON AS A FUNCTION OF THE POSITION OF THE PREMARY DONS CAUSING THE PADMATION	AMBIENT FLUID SAVOLER	CALCRIDETRIC METSOD OF MEASURING RADIATION BY SOLUTION CONDUCTIVITY CRANGE
9	SEP. NO.	, 822,216(60)	659,570(60)		3,486,231 \$96,350(60)	681,574(60)	646,802(60)	707,541(60)	691,746(60)
VOL. XX June 30, 1970	PATENT NO.	3,438,159	3,489,221		3,466,231	3,488,409	3,488,494	3,488,993	3,449,899
J. J. Geist 12/30/69 . Schagen, N. Hel- Lend, Netherlands	C. Wohlberg 12/30/69	Los Alamos, N. Mer. W. G. Dovating, Jr. 12/30/69 Livermore, Calif.	E. Asland Livermore, Calif.	M. J. Cibson 12/30/69 Berkeley, Calif. H. M. Graham	Livermore, Calif.				
NEUTRONIC REACTOR WITH NATURAL CINCULATION OF FLUID FUEL.	ENTING PLU-	A PIELD LIGHT- STERIC ANALOG	GENERATOR PROTECTION CIRCUIT IMVIDG EXTENDED BANZE FUEZ CREMO- TERRISTICS	PACHETIC EPERSION ACTUATED SWITCH					
712,565(60)	586,604(60)	656,997(60)	- 690,230(60)	703,654(60)					

3,487,265

3.487,342

3,486,977

3,486,979

3,487,205

-34							100			
1/12/70	1/22/10	01/11/10	01/11/10	1/27/10	1/22/10		01/12/1	2/3/70	2/3/70	
D. E. Vissere Maperville, III. Forest, III. J. T. Holmes Downers Grove, III.	W. L. Lennesenn Rockville, Md.	D. Ronasvani Minsdale, III. A. A. Jonke Zlenburst, III.	C. W. Harrison Pasco, Nash. S. A. Lund Richland, Nash.	G. L. Silver Centerville, 0.	D. P. Keeler Bartlesville, Okla,	W. B. Kerr Idaho Falla, Idaho W. G. Rounds Idaho Falla, Idaho	C. Wohlberg Bempfield, Town- ship, Pa.	L. Neman Smithtown, N. Y.	S. Untermyer II 2/ Portole Walley, Calif.	
TELLULISM RETRODE RESPUNSIONE RESPUNSIONE RESPUNSIONE RETRODE	METHOD OF STORING LIQUIDS UNDERSHOUD	SZA WATER DESALINATION	SELLOAS LINER	SELF RECENEATING STORAGE MATTERS	ELECTROLYTIC DISSOLVER		SOUTH PROSPRATE-CITRIC ACID-EDTA CLEANING SOUNT- IDMS FOR SCALED FERROUS METALS	METHOD OF HEASTRING OFFICER CONTAMENTION OF LEGUED	CONTROLLING CESTEM RESER- VOIR TEMPERATURE FOR THER- MIGNIC CONVERTERS	
769,658(60)	730,853(60)	713,406(60)	761,471(60)	716,436(60)	654,036(60)		599,675(60)	710, 769(60)	811,903(60)	
3,491,513	3,491,540	3,491,622	3,492,030	3,492,160	3,492,217		3,492,238	3,493,743	3,493,792	
1/20/70	1/20/10		1/20/70	1/20/10	1/20/10	01/20/10	1/20/70		1/20/70	0/20/10
A. A. Berndt Chicago, III. A. R. Lavender Chicago, III. J. J. Stupks Chicago, III.	J. T. Bolnes Douners Crove, Ill. D. R. Vissers	Naperville, III. J. D. Gabor Western Springs, III. I. E. Knudsen Murrysville, Ps.	R. J. Baltisberger 1/20/70 Dayton, O.	F. H. Glass Oak Ridge, Tenn.	R. R. Petrini Livernore, Calif.	G. E. Seeborn, Jr. 1/20/70 Oak Ridge, Tenn.	R. I. Little Barrington, III. B. 6. Nelson	F. L. Petree Handen, Conn.	M. Fishman Saratoga, Calif.	C. D. Henning Livernore, Calif. A. K. Chargin San Jose, Calif.
PERFUSION CHANGE AND CAS- WILLE THEREFOR	UBANIM OKIDE FLUORINATION WITH FLUORINE AND LFUORING INTERSALOCENS		POLONIUM PROM ITRADIATED BISMITH	CURRENT INTECRATOR .	NOS-CONTACT EDDY CURRENT DISTRIBUTED	WIDE-BANCE MECONNECTER BAY- ING AN P.E.T. BESECUSITY TO BAPID CHANCES IN MEASURED RESISTANCE VALUES	PILSE BREAT QUARTIZES		PRECISE FEAK VOLIAGE DE- TECTION OF EQUAL REPETITIVE PULSES BY DIMINISTING CRAE- DIO OF A CARACIDOR	MASTALL STAN PROPET SITH OF WALLAND MONETIC FIELD
645,572(60)	755, 718 (60)		652,655(60)	595, 539 (60)	784,342(60)	726,007(60)	588,268(60)		624,670(60)	753, 189 (60)
8,490,438	3,490,881		3,491,003		3,491,289	3,491,293	3,491,294		3,491,236	3,491,318

					NOTICE	3
	3/17/76	9/17/10	3/17/10	3/17/70	01/11/2	3/24/70
R. F. Post Walsut Creek, Call	J. Katich Boulder, Colo. B. J. Williams Arvads, Colo. M. Burton	Hishewska, Ind. J. H. Germer San Jose, Calif.	W. C. Roesch Richland, Wash,	M. Kessguti Upton, H. Y.	R. L. Chase Blue Point, S. T. L. R. Poulo Watertown, Mass.	E. A. Enapp Los Alganos, N. Nex. J. M. Potter Los Alganos, N. Nex. D. A. Svenson B. A. Svenson H. E. McCop Oak Eidge, Teen. D. A. Canonico Oak Eidge, Teen.
ACCELEATING 1005 OUT OF A BOT PLASH, REGION	PERSONAL MALVE PERSONAL WALVE METHOD OF CLEANING CLASS	AND QUARTZ SURPACES PRESSURE TALANCED FUEL UNINE DUET	VEOLE-BOOY RADIATION COUNTER VITE PEANS FOR CONTROLLING THE SCANS- ING VELCCITY	PLYING DAGE DIGITIZER UTILITIS MEANS FOR SHEEP- ING THE POCUSED INVOE BAST A LINEAR ARMY OF MIDD-DE- TECTORS AND CRATICS MEANS FOR LINEAR SECURISED DATA	IN SPACE AND TIME HIGH COUNTING-BAIR BASE LINE RESTORATION	METHOD AND SEVICE FOR STAILLIANING OF THE FIELD DISTRIBUTION IN PRIFT TWEE LIDAC COMPOSITE STRUCTURE WELLED WITH TUNGSTEN-COUNTAING WELLED WITH TUNGSTEN-COUNTAING WELLED WITH TUNGSTEN-COUNTAING WELLED WITH TUNGSTEN FILLER METAL
(09)198'169	681, 684 (60)	797,744(60)	710,813(60)	766,416(60)	672,653 (60)	666,564(60)
3,500,077	3,501,126	3,501,377	3,501,634	3,501,643	3,501,708	3,501,734
8. ficx.	2/10/70	an. san. con.	2/11/70 Vash.	M. T. 2/11/70	alife. 1y 2/24/70 com.	3/3/70 ghts, 0. 3/10/70 H. Mex. S. Mex.
Alboquerque, J. Y. M. Wam Lockport, II	R. P. Kontz	W. R. Grimes DakBidge, Te D. M. Houlto Eboxville, T	, a a	Stormville, L. H. Johnst	W. B. Flerce Les Altes, G. Domel S. G. Domel J. M. Jones	M. A. Jamini Mayfield Beights, O. C. E. Land Albequerque, M. Mex. I. D. Wellinsy Albequerque, S. Mex.
HISTERNO THE TANTALINE SY ON AT HIGH	TEMERATURES QUARTER-WAVE TRANSMISSION LINE BADIO FREQUENCY VOLT- AGE STEP-UP TRANSFORMER	EXTRACTION OF PROTACTIVITY FROM PALIES SALE NITTURES INTO SISHTE-TIN SOLUTION	POSITION FOR	rater	N DOC	ACCELEATING LITHIUM DRIFT- IN GERMATUM PREMORIECTRIC CEMANIC ELEC- TRO-OFTICAL DEVICE
625,908(60)	710,542(60)	774,507 (60)	546,489(60)	601,823(60)	834,215(60)	805,864(60)
3,494,805	3,495,125	3,495,975	3,496,017	3,496,63	3,497,332	3,499,704
	625,908(60) NETHOD OF INHIBITING THE 3. Y. M. Wang 2/10/70 3,500,077 691,861(60) NETHOD AND AFPARANTHS FOR R. F. Fost CASS, 908(60) NETHOD OF INHIBITING THE 3. Y. M. Wang 2/10/70 3,500,077 691,861(60) NETHOD AND AFPARANTHS FOR R. F. Fost Calif.	### ### ##############################	### ### ##############################	### ### ### ##########################	### ### ##############################	### ### ##############################

4/14/70	4/14/70	4/14/70	4/28/70	4/28/70		5/5/70	5/5/70	01/5/5	5/5/70	or/s/s	01/61/5	
N. H. Katr Northwidge, Calif. R. N. Sems Chatsworth, Calif.	O. E. Schow, III Oak Eddge, Term.	R. J. Driggs Lexington, Mass. R. H. Wiswall, Jr. Brookhaven, N. Y.	J. J. Railly, Jr. Bellport, M. Y. C. M. Gordon Denville, Calif.	F. D. Stevenson	J. E. Conusy Ames, Lova	J. S. Newman Idaho Falls, Idaho	L. F. Sungailla Chicago, III.	R. Cooperstein Kennewick, Wash.	E. T. Weber Kennewick, Wash.	W. O. Greenhaigh Richland, Mash. R. N. Larsen Boushen, M.A.	G. C. North Sents Ans. Calif.	
FUEL CAST DG AFPARITUS WITH COLLAPSTRIKE COMME	LOGARITHMIC CONVERTIR	STABLIZATION OF CHANCED PARTICLE IZANS NETHOD OF STURING HUMBOCEN	GAS REARINGS	PROCESS FOR SEPARATION OF NIOSIUM AND EAVELING		GAS LEAK BATE HONITOR	WALVE ASSEMBLY	RECLAMINOS OF LITHING ALGHINATE TARGET ELEMENTS	NETHOD OF PERPARING A MIT- RIDE NUCLEAR REACTOR FUEL	PULSS STRETCHING CIRCUIT	STABILIZED LEVITATION OF MCCONTIC ELEMENTS	
667, 638 (60)	679,829(60)	3,508,414 710,663(60)	746,576(60)	658,989(60)		3,509,758 / 760,050(60)	751,103(60)	(661,167(60)	735,141(60)	3,510,691 609,731(60)	805,161(60)	
3,506,235	3,506,847	3,508,414	3,506,799	3,506,862		3,509,758 /	3,510,102	3,510,270	3,510,434	3,510,691	3,512,652	
3/31/70	3/31/70	3/31/70	3/31/70	01/1/70	01/1/70		01/1/19	1	01/1/7	047174	67/174	01/1/7
J. S. Johnson Oak Ridge, Tenn. K. A. Kraus Oak Ridge, Tenn.	D. M. Hercules Arlington, Mass. F. E. Lytle	Cambridge, Mass. W. L. Karper Martburg, Tenn. W. E. Smith	Oak Ridge, Tenn. R. L. Snyder New Snyma, Reach, Fla.	W. E. Winsche Zellport, N. Y.	J. W. Hock Export. Pa.	J. F. Eigon New Kensington, Ps.	G. S. Perit Oak Ridge, Term. R. R. Wricht	Oak Ridge, Tenn.	Canoga Park, Calif	M. T. Jakeb Mchland, Wesh, . C. D. Flowers Mchland, Wesh,	E. H. Becker Oak Eidge, Tenn.	J. L. Artley Durham, N. C.
METHOD OF PAKING A PITANIC SOLUTE-REJECTING PERCEASES	PROCESS FOR PRODUCING CUENTLANDING SCENCE DY REDUCTION OF HEIAL CHE-	PROCESS FOR STOTUBERIZING TRUTCHE	ALPT SECURIES CONTAINIOR	DATESCHILLE FORER SOURCE	BLENTIN ALLOT		PRE-PLATING INSAPERIT POR HARAGING STEELS	METADO OF INTERIOR	RENTLE TO ANOTHER CERAMIC DOOR	FUEL SURASSEMENT FOR A LIQUID-NETAL-COOLED PAST REACTOR	PERSONNEL NADON DOSDETER	SUPERCONDUCTOR CATING OR SWITCHING DEVICES
637,878(60)	(09) 512 (60)	758,381(60)	610,700(60)	771,218(60)	500,529(60)		628, 790(60)	12.947(60)		720,196(60)	749,725(60).	634, 794 (60)
5,503,789	3,503,693	3,506,044	3,504,341	3,504,494	3,505,064		3,505,095	3,505,136 (12,947(60)		3,505,170 . 720,198(60)	3,505,523 749,725(60)	3,505,538

01/22/20	6/2/70	6/2/70	01/2/10	6/23/70	6/23/70
N. A. Betz Cak Ridge, Term. Walter R. Burrus Oak Ridge, Term. T. A. Levis Rooxville, Tent. J. W. Reyoolds Oak Ridge, Tern. G. G. Slaughter Oak Ridge, Tern. J. G. Sallivan Knoaville, Tern.	E. M. Welch Falo Alto, Calif. R. H. Vonderoba Downers Grove, Ill. J. H. Doede	C. W. Lindenaryer Aurora, III. D. A. Canonico Oek Edige, Tem. L. G. Fryson Fowell, Tem. C. M. Stropher	D. M. Berules Arlington, Ess. F. E. Lytle Cembridge, Mass.	R. H. Wissell, Jr. Brochaven, M. Y. J. J. Beilly, Jr. Bellport, M. Y.	D. J. Sandstrom Los Alamos, N. Nex. D. A. Lav Los Alamos, N. Nex.
TOTALILING MEDGIT FOR MALICIANING AMALYZERS UTH DUTERASED GARGITY	SENSITIVE BURST DIAFH- MACH FOR PELIEF OF OVER- PRESSURES OFFICAL RANCING DEVICE	REFRICTORY AND CERANIC BRAZING ALLOYS	PROCESS FOR PRODUCING CHEMILARIDESCENCE DY RE- PROCESS OF THE 1, 6 DAN- MINOPPERE RADIOAL CATION	NATING OF STORING HTMMO- CESS	ULTAA-HURH STRENGTH PRESSURE VESSEL
3,514,763 806,648(60)	769,629(50)	671,883(60)	637,877(60)	810,281(60)	609,718(60)
3,514,763	3,515,309	3,515,545	3,515,674	3,516,263	3,516,878
5/19/70 5/19/70 S£1/20	01/61/5	\$/26/70 \$/26/70 \$/26/70	5/26/70	01/25/70	01/92/5
Gene H. Heartling Albequerque, N. Mex. Cocif E. Land Al querque, N. Mex. Ir. D. McKinney Albequerque, N. Mex. R. R. Baldwin - Ciinton, Tenn. A. B. Meservey	J. J. Asbury Encaville, Tenn. G. G. Kelley Kingston, Tenn.	J. J. Reilly, Jr. Rellport, M. Y. D. W. Hatcher Clinton, Team, C. A. Maher, Jr.	F. A. Setth Lockport, III. E. L. Kinout Prengreen Park, III.	B. H. Harling Warwice, N. Y. D. N. Mashburn	Clinton, Tern. D. A. Kasmer Patchogue, M. T.
FERROGLECTRIC CERMIC OFFICAL REPARATION DEVICES SPURICAL DIEFFEROMETER OF THORA-UNANIUM TRICKIDE OF THORA-UNANIUM TRICKIDE	NCTHOD FOR PERSSING THIN 3, J. Asbury MALLED DORON NITRIDS ANTIC- Encaville, Tenn. LES UTILITIES A LINEID NIT- ROCHN PERISATION-TYPE ION G. G. Malley SOURCE DUCLUDING A GAS Kingston, Tenn.	ER ITES	METHOD OF DEPOVING THE CORPOSITION RESISTANCE OF STAINLESS STREET TO SODI-	PISSIDGENICAL PROCESS AND PUEL SYSTEM PROG DIEG STARLE	FIGH ANALYZER COOKING SPACER STRIP FOR SUPERCONDUCTING PACKETS
722,446(60)	753,049(60)	681,635(60) 827,843(60) 786,559(60)	672,650(60)	602,133(60)	716,496(60)
3,512,864	3,513,229	3,513,699 681,635(60) 3,513,704 827,843(60) 3,514,218 786,559(60)	3,514,344	3,514,513 602,113(60)	3,514,730

25	D. G. Schweitzer 6/30/70 Beyport, M. Y.									
A UNIVERSAL PLAIME X-PAY RECOMMICE	SUPERIOR STORMS STATEMENT STORMS STATEMENT STORMS STATEMENT STORMS STATEMENT									
	(00)									
3,518,427	, 436, 436, 436, 436, 436, 436, 436, 436									
6/23/70 m.	6/23/70	6/23/70	01/22/3	6/23/70	6/23/70	6/30/70	6/30/70	6/30/70	6/30/70	6/30/70
G. E. Peterson Andersonville, Tenn.	E. A. Neok, Jr. Cok Ridge, Tenn. N. K. Wilkinson Oak Ridge, Tenn. C. W. Clark Oak Ridge, Tenn. D. D. Baten Oak Ridge, Tenn.	C. J. Borhowski Oak Ridge, Tesm. M. K. Nopp Oek Ridge, Tesm.	G. A. L.svitt Livermore, Calif.	R. W. Bradford Hemlo Perk, Calif.	C. M. Lay Oek Ridge, Tenn.	J. E. Ayer Joliet, III.	D. J. Sandstrom Los Alamos, N. Hex.	F. G. Seeley Oak Ridge, Tenn. D. J. Crouse, Jr.	D. R. deSoishlanc Idabo Falls, Idabo	L. S. Goodman Downers Grove, III. F. O. Salter Glen Ellyn, III.
PROCESS FOR PEZFARING MICH BEHGITY ISOTROPIC CRAPHITZ STRUCTURES	MOSTICALLY PUSED THO- OF-FLIGHT NEUTRON SPEC- TRONSTER	POSITION-SENSITIVE MADI- ATEON DETECTOR	SICS DETANITY X-RAY TURE	DECIDALING AND FAMILY PRO- R. W. Bradford TECTION CIRCUIT FOR A LINE- Memio Park, Calif. TYPE PULSER.	PHASE DETECTOR	METHOD OF MAKING COMBIN- ATION FUEL RODS	DIFFUSION BONDING OF CENAMICS	PURIFICATION OF SERVI- LINK BY LINGID-LINGID EXTRACTION	SODIUM-COOLED PAST-FLUX TEST REACTOR	PRESSING HOUSTATISTICAL MOISE EMESTS IN DIGITAL AVERAGING
721,144(60)	756, 268 ((0))	776, 220(60)	742,090(60)	721,757(60)	699,575(60)	(09) 196' (60)	726,244(60)	672,649(60)	718,685(60)	643,324(60)
3,517,092					1100	6.4	-	2		120 110

24100	*									1000					
7/14/70	7/14/70		7/14/70	01/11/1	T.	7/21/70 Nex.	7/21/70	01/11/1	01/11/1	a fee fee	1/20/12	8/4/70	8/11/70	8/11/70	
R. W. Kalkbrenner Irvin, Ps.	E. L. Christensen Mr. J. Mersean	Los Alamos, N. Nex.	M. R. Scheve C. N. Young Saltimore, MC.	T. Chase, Jr.	Center Noriches, N. T. E. N. Shav Shoreham, N. Y.	O. M. Stuetzer Albuquerque, N. Me	A. T. Visser Downers Grove, Ill.	R. B. Brifton W. B. Sampson	Bellport, M. T.	Oak Ridge, Tess.	G. W. Dickinson Ames, lova	A. R. Lavender Chicago, III. F. W. Markloy Reperville, III.	G. C. North Sants Ans, Calif.	AND THE RESERVE	Vero heach, Fis.
NOTARY ENTING CONFESSATING ROCENTRIC	METHOD FOR REMOVING SILICA FROM SILICEGUS MATERIALS		HOST POWERFUL MADIOISOTOPE HEATED THERMCELDCTRIC CENE- RATOR PROVIDING FOR INCACT RE-ESTRY OF THE BEAT SOURCE	MEANS FROM SPACE p-Witrophenyl-p'-Cussidino-	bengoatte BCI	PIEZOSLECTRIC PREDTHEOUGH	NETER FOR PENSINGNESS WALLES OF PULSED CURRENT SIGNALS	POWER SUPPLY FOR SUPER COS- DOCTING PAGNET	TOTALIZING MEMORY FOR MULTI- W. R. Burrus	CHANNEL AMALYZERS WITH DI-	CRAFFIC ANALYSIS OF MOLTEN METALS	PARLIE, PLOV REPODIALYZE	PAST ACTURE ELECTROPACHETIC GAS VALVE	DOUBLE POCUS INC SPECTROCRAPH EMPLOYING A POTARABLE QUAD- RUPOLE LENS TO MINIMIZE	DOPPLER BEOALDENING
3,523,644 740,616(60)	799, 911 (60)		771,511(60)	711,529(60)		734,689(60)	761,060(60)	763,260(60)	698,338(60)		600,222(60)	722,445(60)	786,558(60)	695,977(60)	
3,523,644	3,520,679	1000	3,520,734	3,520,918		3,521,089	3,521,165	3,521,207	3,521,239		3,321,939	3,522,685	3,523,677	3,524,056	
		DATE	05/7/1	01/1/1	7/7/70	01/1/10	01/1/1		01/1/1	01/1/1	01/141/1	7/14/70	1/14/70		7/14/70
		DATEMENTORS	L. E. Geness Mokens, III. E. Kleb Douners Grove, II	D. D. Grossman Cambridge, Nass.	P. O. Tauson Bradford Woods, 1	E. C. Burst Fowell, Tenn.	Oak Eidge, Tenn. H. G. Anderson	Oak Eidge, Tena.	A. R. Lieberman Baltimore, Md.	G. A. Sleege Anse, low	F. E. Bell E. H. Quade	San Diego, Calif M. J. Savitaki Dayton, Ohio	R. A. Mesch Lists, Ill.	Mew York, M. T. O. S. Resding Bellport, M. Y.	J. S. Tampolsky F. R. Bell P. Fortescue Sen Diego, Calif.
PATENTS FOR LICENSING		INVESTION.	MATHOD OF PAKING AN OMBIAN SHAPED ANNILLIS	SHORT DURATION OFFICAL SHUTTER	PARTIAL ADMISSION VALVE MECHANISM FOR ROTARY ENGINE	METHOD FOR SEPARATION MOLYS- DENUM FROM TECHNETHUM	NETHOD OF CENTRIFICAL SERA-	MATION AND RECOVERY OF CHE- MICAL SPECIES UTILIZING A LIQUID NEDIUM	HIGH TEMPERATURE THERMAL CONTRAL FOIL SHITTER	TDE OF FLIGHT TO KINETIC ENERGY CONTESTER FOR A NUC."	WATOR GENERATOR FOR USE IN A NOCLEAR REACTOR	PPERABITION AND PUBLIFICATION OF CRISTALLINE DORNE	REPOTE LEVELLING MEASURE.		PUTD CIRCULATOR
	1970	SER, NO.	747,904(60)	684,135(60)	740,275(60)	112,377(60)	612, 297 (60)		(09)650,589	660,883(60)	581,328(60)	758,936(60)	(09) 865' 669		577,316(60)
W. II	September 29, 1970	PATESIT NO.	3,518,861	3,519,328	3,519,374	3,519,385	3,519,400		3,519,490	3,519,622	3,520,356	3,520,462	3,520,621		3,520,640

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3,531,324

3,531,340

3,531,639

10/20/70

M. C. Lunde

TITANIEM CARBIDE MOLTEN METAL BARRIER AND METHOD OF PRODUCTION

690,823(60)

3,535,132

10/20/10

L. C. Bate and F. F. Dyer

METHOD FOR EFFECTING UNIFORM RADIATION OF SAMPLES

715,080(60)

3,535,205

07/02/01

John H. Germer

PHEUMATIC SCRAM ROD DRIVE

751,102(60)

3,535,206

728,348(60)

3,535,355

W. L. Jolly, T. Birchall and D. S. Bustad

PROCESS FOR PRODUCING DERIVATIVES OF WEAKLY ACIDIC CHEMICAL COMPOUNDS

24168											NC
9	DATE	01/9/01	10/13/70	10/20/10		10/20/10	10/20/11	10/20/10	10/20/10	10/20/10	10/20/10
F6. 3	INVENTORS	Bugh 5. McFarlane	Donald R. Green	J. R. Lance,		Dieter R. Walz	Kalph Kalkbrenner	A. A. Palko	W. L. Harper and W. E. Smith	E. J. Hart & K. H. Schmidt	Cyrus E. Whitfield 10/20/70
PATENTS FOR LICENSING	INVENTION	HIGH VOLTAGE COATLAL CONNECTOR	THERMAL SURFACE INTEDANCE METHOD AND MEANS FOR NOW-DESTRUCTIVE TESTING	IMPLANTABLE CIRCULATORY	SUPPORT SYSTEM	BALL-LOADED HICH ENERGY PARTICLE SEAM DUMP	ROTARY ENGINE VALVE	METHOD FOR FEACTIONATION OF CARBON ISOTOPES	METHOD FOR MAKING CRAPHITE	DEVICE FOR PRODUCING AND HIDRATED RIECTRONS	METHOD OF MAKING METAL ALLOY POWDERS
0761	SER. NO.	815,372	099,859	735,726(60)		784,738(60)	742,089(60)	711,746(60)	758,391(60)	771,217(60)	720,391(60)
VOL. XX December 29, 1970	PATENT NO.	3,533,047	3,533,273	3,534,409		3,534,811	3,535,059	3,535,079	3,535,081	3,535,087	3,535,103
		(4)	1 16								
9/29/70		-	9/29/70		9/29/70						
A. K. Pischer Western Springs, V. A. Maroni	Riverside, III. A. D. Tevebsugh	Hinsdale, III. E. J. Cairns Downers Grove, III.	E. 7. Bunshah Livernore, Calif. E. S. Junits	Hayserd, Calif.	J. W. Bsum Patchogue, H. Y. P. S. Littlefield	Noceland, Nass.					
SECONDARY POWER-PRODUCING			METENDS FOR MOUNTING THEIR BESTLETIN WINDOWS		ENTINGENTAL GAS HONITOR FOR LOW LEVEL RADIOACTIVE GASES	**			Low Manual Land	A Commission of the last of th	
841,828(60)			786,580(60)		782,563(60)						

CHANG-POLLOGING APPARATES J. D. Copies 10/20/70 3,538,434 645,580 October 10 Per Harry warts and 02510487 Miltan E. Neitzel 10/20/70 3,541,448 727,178(80) MILTAN E. Neitzel 10/20/70 3,541,448 727,178(80) MILTAN END 02510487 MILTAN EL CONTROLOGY MILTAN EL CONTROLOG	2 2										
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CHRYG-POLLOGING AFFAGATUS 3. D. Caylor 10/20/70 3,530,434 645,580 BIGALT BADIX CONTRIES HIGH-VOLKE AIBJOING. PARTICLE LIGHT SCATTERIAGE PRATICLE LIGHT SCATTERIAGE FRETCHS STRING AIBJOING. LOW PASS FILTER CIRCUIT Truman H. Quinm 10/20/70 3,541,468 727,178(60) LOW PASS FILTER CIRCUIT Truman H. Quinm 10/20/70 3,541,652 808,120(60) LOW PASS FILTER CIRCUIT Truman H. Quinm 10/27/70 3,541,855 781,438 ENTINO FOR MEASUREMENT AND N. C. Anderson 10/27/70 3,541,855 781,438 FRINDO FOR MEASUREMENT AND N. C. Anderson 10/27/70 3,542,525 801,390(60) CONNENANT FULLIER FOR Claire E. Miner 10/27/70 3,542,995 829,955(60) CONNENANT FULLIER FOR Claire E. Miner 10/27/70 3,542,995 829,955(60) AND CONNENANT FULLIAGE AND CONTAINING A H. S. E. Moran 6 10/27/70 3,543,136 732,306(60) CONFOCINC AND MEASUREMENT S. H. Spease 111/3/70 3,543,137 717,262(60) RETHOD OF MALTON FORM M. Monetag 11/3/70 3,543,131 803,904(60) OF CELLULAR MENDERALIS R. H. Spease 11/3/70 3,543,137 703,653(60) HINS WAITE WAITER WHIRE CANTING M. Steinberg and 11/3/70 3,543,137 703,653(60) HINS WAITER WAITER WAITER S. H. Steinberg and 11/3/70 3,543,197 703,653(60)				II H. A. Enge	R. A. Boone 6	R. L. Pigford . B. Bai r III 6	133	A. A. Jonke Develoktuni Samin	- 12	F. Carlie S. Forter	P. Brown,
STRICT CONTINUES APPRAIRS 3. B. Copies 10/20/70 3,538,434	CONSTANT-DPEDANCE VARIABLE-RELAT TRANSMISSIO LING MULTI-GEOMETRIC PATTERN ELECTRIC GENERATOR	1		HIGH VOLTAGE DIRECT CHREEN CENERATOR	MEASUREMENT AND CONTROL OF POCUS IN ELECTRON BEAM WELDING	CTCLING 2008 ABORRYTION PROCESS	ANEMOMETER FOR MEASURING BORIZONTAL SIND VELOCITIES	ANNUAR PACKED-BED FILLER	DICITAL TIME INTERNALMENT WITH AMALOGUE VERNIER THO	OUT OF IEAT ANTER AND OUTINARY WATER IN THE PRESENCE OF THE OTHER OF HEAVY WATER AND ORDINARY WATER	METHOD FOR DETECTING AME AND INTARY LATER AND
SIGNAT PARTICULAR APPRANTUS 3. B. Caylor 10/20/70 SIGNAT PADIX CONTEXES Hickael J. C. Ha 10/20/70 HIGS-VOLDE AIRBORNE— WIlliam E. Neitzel 10/20/70 HIGS-VOLDE SISTEM MAVING RECTANDULARY SCAPED ELONGA- ILD 2008 LOW PASS FILTER CIRCUIT Truman H. Quimn 10/20/70 RETHOD FOR MEASUREDEST AND N. C. Anderson 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS CONDENSATE FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS TRANSFER OF SMALL FILLID VOLLESS TRANSFER FURIFIER FOR CLaire E. Miner 10/27/70 TRANSFER OF SMALL FILLID VOLLESS TRANSFER FURIFIER FOR CLAIRE E. Miner 10/27/70 CONDENSATE FURIFIER FOR CLAIRE MINER FOR FURIFIER	703,653(60)	803,904(60)		792,306(60)	829,955(60)	801,390(60)	781,438	808,120(60)	727,178(60)		645,580
CONVE-POLICONING APPRAATUS J. B. Caylor SIGNAT RADIX CONVEXER Michael J. C. Ru HIGS-VOLDE AIRSONG— William E. Neitzel RARICCE LIGHT SCATERIAG RECTAMOULARY SEARED FLONGA- IDD 2006 ILW PASS FILTER CIRCUIT Truman B. Quinn RETHOD POR MEASUREMENT AND N. C. Anderson TRANSFER OF SMALL FILID VOLLEGES CONDENSATE PUBLIER FOR Claire E. Miner DIFFUSION PUMP RAINITEDULIERE EXPLOSIVE CONFOSITIONS CONTAINES A B. G. Anderson ANTOCASSON METHOD OF MAKING POSCORS RETHOD OF MAKING POSCORS METHOD OF MAKING POSCORS METHOD OF MAKING POSCORS METHOD OF MAKING POSCORS RESIN DURESS RE	3,543,192	3,543,171		3,543,136	3,542,995	3,542,525	3,541,855	3,541,762	3,541,448		3,538,434
CONVEL-POLICOVING APPRAALIUS SIGNAT RADIX CONVEXIER HIGH-VOLING AIRSONZ- RASICCING SINIER MAYING RECTCHOULAST SCATERIAG INP RASS FILITER CIRCUIT RETECTOR SYSTEM WAYING RECTHOULAST SCARES FLONGA- ILD 2006 ILOW PASS FILITER CIRCUIT RETHOD FOR MEASUREMENT AND TRANSFER OF SMALL FILLID VOLLESS CONDENSATE PUBLIFIER FOR DIFFUSION FUMP ZONAL CENTRIFUGE RETHOD OF MAXING POROUS METAL CARRIED AGGIOMERATES HETHOCARRON RETHOUGH ARCHAUTOR RESIN PURBECANTION OF CELLULAR WENGERS RESIN THERECANTION OF CELLULAR WENGERS MAMINION FRANTMENT OF MINE WASTE WAITES		01/5/11	10/27/70	07/22/01	10/27/70	10/27/70	10/27/70	10/20/10		10/20/70	10/20/10
	M. Steinberg and J. Pruzansky A. E. Marcinkowsky J. S. Johnson K. A. Kruss & J. R. Roppers	M. Montag R. L. Sedler	R. E. Norman &	Otis K. Pennington, Harold J. Gryting Louis McDonald	N. G. Anderson and C. E. Munley	Claire E. Miner	K. O. Creek and D. W. Leiby N. C. Anderson	Trumen H. Quinn		Michael J. C. Bu William E. Neitzel	J. B. Caylor
619,782(60) 648,189(60) 719,047(60) 825,892(60) 756,265(60) 801,521(60) 801,521(60) 701,547(60) 751,101(60) 751,101(60) 751,101(60)	RADIATION TREATMENT OF MINE WASTE WAITERS BYFENTLINATION NETHOD REMOVING ORGANIC SOLUTE FROM AQUEOUS SOLUTE	LEVEL CONTROL FOR CHYOCHIC LIQUIDS RESIN DURECKATION OF CELLULAR MENSERS	METAL CARBINE ACOLOMERATES	TRINITAGIDUENE EXPLOSIVE COMPOSITIONS CONTAINING A POLYCYCLIC ARGMATIC	100	WOLDES CONTENSATE PURIFIER FOR		LOW PASS FILTER CIRCUIT	DETECTOR STSTEM HAVING RECTANOULARY SHAPED ELONGA-TED ZONE.	STRAFT RADIX CONVEXTER HIGH-VOLING AIRSONS- PARTICLE LIGHT SCATESLAD	CURVE-FOLLOWING APPARATUS
	660,351(60)	751,101(60)	703,547(60)	392,073(48)	801,521(60)	811,904(60)	756,265(60)	108,907(60)		648,189(60)	679,782(60)
3,535,530 3,535,531 3,535,646 3,535,406 3,535,420 3,535,240 3,535,733 3,535,733 3,535,733 3,535,733 3,535,733 3,535,733	3,537,988	3,537,271	3,536,793	3,536,544	3,536,253	3,536,420	3,535,803	3,535,646	+	3,515,500	3,535,494

12/15/70

R. J. Crijalva & G. P. Queener

RETEASE LATCH ACTUATED BY TRAFFRATURE EXCURSION

814,967(60)

3,546,996

12/8/70

J. D. Perrings

ELECTRODE ASSEMBLY FOR DETECTING PARTICLES IN FULID SUSPENSION

3,546,583 / 758,561(60)

APPARATUS FOR NOWDESTRUCT F. Hormstre, Jr.
IVELY MEASURING THE POSITION
AND PARTICLE-DENSITY PROFILE 6 W. H. Deluce
OF AN ACCELEATOR SEAM

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12/1/70	12/1/70	12/8/70	12/8/70	12/8/70	12/8/70	12/8/70	12/8/70	12/8/70		12/8/70	12/8/70
R. E. Ellis & C. J. Kershner	R. A. McConnell	S. H. Emsen 6 D. F. Snooberner	N. E. Dixon & W. J. Coleman	E. K. Beauchamp & J. E. Morenz	J. A. Chopp. M. O'Brien, M. O. Roberts &	K. G. Perges	T. J. Davis	D. G. Schweitzer 6 P. D. Adems		C. D. Jeffries 6 E. 7. Mollensuer 115	F. Hornstra, Jr.
PURIFICATION OF POLONITH	DMFEDANCE MATCHING COUPLER SYSTEM FOR A VARIABLE RESISTIVE LOAD	IMPEDANCE COLD RECOVERY PROCESS -	LITHTIM SULPRATE ULTRA- SONIC TRANSDUCER	FIRER STRENGTHENED TREMO- ELECTRIC MATERIAL	MELD WIRE FRED CONTROL	NEUTRON FLUX PLOTTING DEVICE	SIDIRECTIONAL ANALOG CATE	SUPERCONDUCTING CHRENT LOOP HAVING PREFERENTIAL	CURRENT FLOW	METROD AND APPARATUS FOR C ENGANCEMENT OF NUCLEAR 6 POLARIZATION BY OPTICAL FUNEING IN SOLIDS AND LIQUIDS	APPARATUS FOR MONDESTRUCT F. Hormstra, Jr.
772,073(60)	813,486(60)	722,209(60)	716,592(60)	161,057(60)	739,575(60)	794,501(60)	778,103(60)	743,700(60)		771,795(60)	740,207(60)
3,544,307	3,544,922	3,545,964	3,546,012	3,546,026	3,546,423 /	3,546,455	3,546,485	3,546,541		3,546,575	3,546,577
12/22/70	12/22/70	12/22/70	12/22/70	12/22/70	12/22/70	12/22/20		12/22/70	12/29/70		
D. F. Babcock	P. R. Pluta	H. L. Johnson	E. Ricel T. H. Sandley 5 M. G. Willey	J. H. Cerner	J. B. Cerner	C. H. Lay		J. M. Caller & P. J. Konnick	Louis 3. Werner		
MAL TEMPERATINE ISOTOPE EXCHANGE PROCESS	STSTEM FOR DETECTING SODIUM BOILING IN A REACTOR	NUCLEAR REACTOR FUEL ELEMENT HOLD-DOWN AND TIGHTING MECHANISM	FUND SUPPORTED CAPSULE HOLDER FOR HOMOCEMEDIST IRRADIATING SAMPLES	FAST SOBJUN-COOLED REACTOR CORE STRUCTURE	PLOW MEASURING DEVICE POR SODITM-COOLED REACTORS	A STSIEM FOR COMPUTING AND CONTINUOUSLY DISPLAYING INCREMENTS OF MOVEMENT OF AN ORJECT IN USEABLE UNITS		ELECTRICAL CONNECTOR FLUG AND CONNECTOR ASSEMBLY	A PRECIPITATION NETHOD	PROM CONTACTION IS	
721,675(60)	769,655(60)	777,793(60)	823,888(60)	793,040(60)	751,2%6(60)	629,877(60)		847,870(60)	692,727(35)		
1,549,325 721,675(60)	1,549,489	3,549,491 - 777,793(60)	3,549,492	3,549,493	3,549,494	3,549,877		3,550,064	3,551,119		

12/22/20

Ricci H. Handley & G. Willey

12/22/21

P. R. Pluts

12/22/70

D. F. Bahcock

826,102(60)

3,547,185

806,920(60)

3,547,547

529,181(60)

3,547,676

728,910(60)

3,547,709

754,308(60)

3,547,685

786,711(60)

3,547,796

807,081(60)

3,548,191

12/22/20

L. Johnson

12/22/20

E. Cermer

12/22/20

H. Cerner

12/22/21

H. Lay

12/22/20

M. Caller & J. Konnick puis 3. Werner

12/29/70

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DUAL TENTERATURE ISOTOPS	EXCEMINGE PROCESS	SYSTEM FOR DETECTING SODIUM BOILENG IN A REACTOR	NUCLEAR REACTOR FUEL ELEMENT HOLD-DOWN AND TIGHTING MECHANISH	FLUID SUPPORTED CAPSULE BOLDER FOR HOMOGENBOUSLY INRADIATING SAMPLES	PAST SOUTH-COOLED REACTOR CORE STRUCTURE PRODUMENTATION PROTOCOLOGICAL	SCOUTH-COOLED REACTORS A SYSTEM FOR COMPUTING AND	CONTINUOUSLY DISPLAYING INCREMENTS OF MONEMENT OF AN OBJECT IN USEASLE UNITS	OF MEASURE ELECTRICAL CONNECTOR FLUG AND CONNECTOR ASSEMBLY	A PRECIPITATION METHOD OF RECOVERING ELEMENT 95 FROM CONTAMINANTS											3
721,675(60)		769,655(60)	777,793(60)	823,888(60)	793,040(60)	629,877(60)		847,870(60)	692,727(35)							-			*	PTEMBER 5, 197
3,549,325		3,549,489	3,549,491	3,549,492	3,549,493	3,549,877		3,550,064	4,300,119		**									WEDNESDAY, SI
12/15/70			12/15/70	12/15/70	12/15/70	12/15/70	12/15/70	12/15/70	12/15/70	12/22/70	12/22/70	12/22/70	12/22/10	12/22/70						NO. 171-1
D. M. Eissenberg			E S. G. Anderson	J. C. Bokros, J. Chin and R. J. Price	J. T. N. Weng and K. G. Figlik	S. S. Petit ac! R. R. Wright	W. L. Randelli	W. W. Schultz 5 S. L. Jones SED	C. A. Sandoval	W. R. Bolman	J. E. Germer & C. E. Boardman	I. Mutray	D. F. Babcock	D. P. Babcock						FEDERAL REGISTER, VOL. 38, NO. 171-WEDNESDAY, SEPTEMBER 5, 1973
PETHOD FOR PROMOTING	COPPER AND COPPER ALLOY	CONDENSING SURFACES	AMALYTICAL PROTOFETER WITH MEANS FOR MEASURING, BOLDING AND TEAMSFERZING SISCETE LIQUID VOLLNES AND METROD OF USE THEREOF	PROLYTIC CARBON STRUCTURES AND PROCESS POR MACING SAME	METHOD OF INHIBITING THE CORNOSION OF IANTALIN BY LIQUID LITHIUM	CORROSION-RESISTANT URANIUM	APPARATUS FOR ELECTRO- POLISHING SPRERICAL SURFACES	W. DETECTOR FOR SLOW NEUTHORS S. BRETECTOR FOR SLOW NEUTHORS S. SHOWNEY DISTRICT INSTITUTIONS COVERSTOR THERE IN THERE IN	ACTUATING DEVICE	TENSILE TEST APPARATUS	VESSEL FOR A SOBIUM- COOLED REACTOR	OPTICAL EXTENSORETER	DUAL TEMPERATURE ISOTOPE EXCHANGE PROCESS	DOAL TEMPERATURE ISOTOPE EXCHANGE PROCESS						FEDERA

> 787,525(60) 721,676(60)

3,549,257

3,549,323

3,548,931

721,674 (60)

3,549,324

847,869(60)

3,548,352 3,548,646

803,154(60) 171,796(60)

12								1		110		S			
1/18//1		17/61/1	1/16/31	THE PARTY OF THE P	1/28/11	1/38/11	1/26/11	1/28/11	11/32/11	1/28/11	1/32/11		1/22/13	1/26/11	тип
V. J. Ruttsustas		W. B. Distier	W. C. Anderson	As we addressed	A. Jeross	G. R. Peterson C. L. Stooksbury	E. E. Bavis D. V. Stervens	D. E. McMilles	W. Berndt F. Rieneker, Jr.	J. D. Lerson J. A. Benjanda	R. Eniseley		L. R. Olk	E. C. Oritton B. Pinkel	V. E. Johnson
COMBINATION LINEAR	LITTING AND TRANSLATION MECHANISM	ELECTROCREMICAL PROCESS FOR CUTTING RESPILITIN	El Schadbanantic	STPARATION UTILIZING LIQUID CENTRIFUGE	A LIQUID NETAL FURIFIER	CARBONACEOUS COATENG FOR CARBON FOAM	HETHOD OF MAKING NUCLEAR PURE NODIES	CIRCUIT FOR DIMENSIONAL VERIFICATION OF PUNCHED LAFES	WEARONS EFFECT DISPLAY STSTEM	ELECTROSTATIC DEFLECTOR FOR STRETTWELY AND ADJUSTMENT RENDING A CRARGED PARTICLE REAR	APPARATUS FOR DISPLAYING	PICH A SCANDIC ELECTION MICHOPROBE	AVALANCHE-TRANSISTOR PULSE-TRAIN CENERATOR	CASSOUS-FUZZED MICLEAR REACTORS FOR ELECTRICAL FONER PRODUCTION	METRO FOR CONSTRUCTING A LINED UNDERSCORD CAVITY BY UNDERSEARING, CROVIDIG, AND BORDG TREBOGN THE CROVIDE
797,612		743,309	756.264		827,842	722,537	203,573	816,235(60)	628,244	712,568	751,099		741,762	775,150	29,000
3,536,486		1,556,963	3.556.967		3,558,122	3,558,344	3,538,750	3,558,862	3,558,665	3,558,679	3,558,880		3,558,919	31,538,935	1,539,409
	DATE	1/12/71	1/17/11	1/12/71	1/12//1	1/12//1		1/12/11	1/11/11	1/12/11	1/11/11	1/11/11		1/11/11	
	DIVESTORS	R. C. Matr	B. T. Rogers, Jr.	A. Orlandini J. Korkisch	16. Orlandini	E. Beutler		J. D. Kellner	C. Thompson	E. E. Becker	G. L. Schroeder	R. G. Anderson		E. O. Boods	
	DIVENTION	PLUCCING COMPOUND COLLECTOR	ALICHEST TELESCOPE	SEPARATION OF SCANDIUM FROM EARE EARTH ELEMENTS	SELECTIVE DOS-EXCHANGE AND	LOW TESTERATURE NETROD	FOR CONTING NUCLEAR FUELS WITH HULLIFLE CAREON COATENCE	THERMOELECTRIC ELECTRS CONTRICTOR ELECTRA BISHUTE RECKIDE OR RICHTHER SISHETH CHLORIDS	NETHED OF OSTAINING AMERICITY	DMENCY INDEPENDENT RADIOPHOTOLUMINESCENCE DOSINGTER WITH COOD PAGING STABILITY	POTENTIAL ALPHA BAY ACTIVITY METER	MULISTATION, SINGLE CEANSEL ANALYTICAL	OF USE	COLD CATHODE MACKETHON LONIZATION CAUCE WITH CATHODES FOREING FOLE PIECES FOR CYLINDRICAL	мон
	SER, HO.	741,959	758,940	789,619	325,757	131,351		577,449	652,729	111,211	784,720	784,739		799,166	
April 27, 1971	PATENT NO.	3,554,374	3,554,630	3,554,693	3,354,709	3,554,783		3,554,607	3,554,867	3,554,920	3,555,278	3,555,284		3,335,411	
	3,536,496 797,612 COMMINGAR W. J. Buckmankan 1/19/71	SER, NO. DIVENTION DIVERTION DATE DATE 1/19/71 COMPENSION LITTING AND TRANSLATION MESTICAL LITTING AND TRANSLATION MESTICAL LITTING AND TRANSLATION MECHANISM	1,336,486	1,536,406 797,612 CONSTRUTOR TAXASLATION TAXASLA	1/19/71 1/19	1,536,406	1/15/11 1/15	1,356,466 197,612 CONDENSION DATE 1,2771 1,556,466 197,612 CONDENSION LINEAR V. J. Ruthauskas 1/19/71 1,556,466 197,612 CONDENSION LINEAR V. J. Ruthauskas 1/19/71 1,556,466 143,309 ELECTROCHECKLY PROCESS W. B. Distinct 1/19/71 1,556,466 ELECTROCHECKLY PROCESS 1/19/71 1/19/71 1,556,466 ELECTROCHECKLY PROCESS 1/19/71 1/19/71 1,556,466 ELECTROCHECKLY PROCESS 1/19/71 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71 1,556,466 1/19/71	STR. NO. INTENTION INTEN	1,135,446 PATOCHO CONCOURS L. C. Marie 1,12/71 1,536,486 797,612 CONSERVITOR LIDERAR V. J. Anthonses 1/19/71 1,135,440 PATOCHO CONCOURS L. C. Marie 1/12/71 1,536,853 143,309 PATOCHO CONCOURS V. B. Marier 1/13/71 1,135,440 PATOCHO CONCOURS L. C. Marie 1/12/71 1,536,853 1/3,309 PATOCHO CONCOURS V. B. Marier 1/19/71 1,13,5440 PATOCHO CONCOURS L. C. Marie 1/12/71 1,536,853 1/3,309 PATOCHO CONTINC R. C. Anderson 1/19/71 1,13,5440 PATOCHO CONCOURS L. C. Marie 1/12/71 1,535,853 1/3,309 PATOCHO CONTINC R. C. Anderson 1/19/71 1,13,513 PATOCHO CONTINC R. Beetler 1/12/71 1,538,122 E. Marie 1/18/71 1,13,513 PATOCHO CONTINC R. Beetler 1/12/71 1,538,132 E. Marie 1/18/71 1,13,513 PATOCHO CONTINC R. Beetler 1/12/71 1,538,132 R. Marie 1/18/71 1,13,713 PATOCHO CONTINC R. Beetler 1/12/71 1,538,132 R. Marie 1/18/71 1,13,713 PATOCHO CONTINC R. Beetler 1/12/71 1,538,132 R. Marie 1/18/71 1,13,713 PATOCHO CONTINC R. Marie 1/12/71 1,538,132 R. Marie 1/12/71 1,538,132 R. Marie 1/18/71 1,13,713 PATOCHO CONTINC R. Marie 1/12/71 1,538,132 R. Marie 1,538,133 R. Marie 1,538,133 R. Marie 1,538,133 R. Marie	1,156,	1,35,46 1,150 1,	1,35,46	1,156,406 711,610 1,150,406 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1,55, 466 17, 17, 17, 17, 17, 17, 17, 17, 17, 17,

												NOI	013		
3/17/11		3/2/71	3/2/11		3/2/11	3/2/71	3/2/11	3/2/11	11/2/8	3/2/11	3/9/71	3/9/71	3/9/71	3/9/71	3/9/71
M. Stefoberg P. Colombo	B, Manowitz	J. H. Gray, III	W. J. Stateh	A, D, CARROL	C. 2. Schaftt	F. A. Duimetre D. O. Schuler	J. T. Chang	M. L. Maga E. E. Taylor	W. W. Coldsworthy 3/2/7/	E. B. Britton	V. C. Estimond	M. A. Lebus	E. Loetther D. C. Thomas	J. I. Anderson D. Parker	P. E. E. Oberbeck W. J. Poppelbecm
NETHER OF PRODUCING PLANTIC DEFECCIATED CONCRETE		STABLE CESTUM COMPOUNDS	DISSOLUTION OF STAINLESS	EDOMS	LOW TENSTRATURE HETBOD FOR PREPARING FOAM PRODUCT	MOLLER-BAND INSETIAL SWITCH	NETHOD AND APPRAITUS FOR BOT J. T. PRESSING	CHARGED PARTICLE DETECTOR	THE SAPLING PULSE-AMPLI-	MULI-ACTION FLEX PUR	METHOD FOR ENCAPSULATING RING-SHAPED GAJECTS	CONSTRUCTION OF LAND HASS MOUNDED BY WATER	WIRE COATEN TOOL CORRECTED REAT EXCHANGE MENSER FOR EVAPORATION AND COMMENSATION	APPARATUS FOR ELIMINATING LINE TWIST	METHOD AND APPARATUS FOR TRANSMITTING VIDEO INFORMATION WITH AMPLITUDE REFERSIMATION OF POSITION INFORMATION
751,338		362,556	814,313		677,002	863,736	860,879	748,067	763,258	776,658	170,728	863,167	862,851	811,026	750,789
3,567,496		3,567,646 -	3,567,648		3,367,662	3,567,881	3,367,896	3,567,925	3,567,971	3,568,002	3,568,397	3,568,449	3,568,640	3,568,946	3,569,615
2/9/71	2/9/71			2/9/71	1/18//1	2/16/71	11/52/11	1/12/11	1/12/11		1/12/11	1/13/II	3/2/71	11/2/1	וווגונ
d. Eorbe	N. Latner			C. W. Rosschke	C. N. Lay	R. G. Horrison	A. R. Levender P. W. Markley	D. A. Camerico H. C. Cols C. V. Bouck	R. L. Marchett		B. F. Gavin	L. J. Esbell C. W. Rosschke	E. T. Cole E. E. Stevens	C. A. Cuderjahn	E. S. Davis F. Kerra, Jr.
THERMOLINGWESCOUT DOSINGHER MAGE	NETHOD FOR DETERMENTING	BICCL CAMING MITCHES	CUPACITANCE THEREOF	DISTANCE INDICATING SYSTEM	SIDINECTIONAL COUNTING SISTEM	CANNA COMPENSATED PIESTON TREMOCOUPLE	PARALLEL PLOW ENDODALYZER	TITAMENH-TIRCONTUN- GRUNANTUN BRAZING ALLOY	HETIEDO OF HETALS JODIUM		SPUTTER-TYPE PERSIDG DISCRACE FOR MOTALLIC DOES	PADID ALTDETER	PETTEND AND APPARATUS FOR MEDITION CONTENT OF FLOWING STREAMS	LIQUD HETAL PRESSUR	LIQUD FLOW CONTROL STSTEM VESSEL PACKING ARTICLE
044,821	784,072		-	382,505	272,046	129,119	603,221	811,319	519,882		699'908	325,032	826,729	831,476	815,818
3,362,480	3,562,634			3,562,752	3,564,218	3,564,246	3,565,258	3,365,591	3,566,071		3,566,185	3,366,406	3,586,677	3,356,695	3,566,994

3/16/71	803/m	11/12/1	11/12/11	11/12/16	3/23/71	11/02/6	3/30/71	3/30/71	3/30/71		3/30/11	3/30/71	3/30/71	3/30/71
F. Pods, Jr.	M. M. Satterfield	G. L. Silver	E. A. Pobto C. D. St. Onge	D. G. Schweitzer L. J. Micolosi	D. P. Wilkes	P. T. Matteon, 3r. 3/23/71 D. W. Stevens	I. P. Adendik	L. E. Saldwin	N. P. Pairbanks		F. Lambdin, Jr.	L. S. Lory	7. B. Weldrop M. J. Berik	J. J. Pinajien
PRESSIEE RECTLATOR FOR A CINCULATING FLUID SYSTEM	COMPRESSION OF STATISTICAL DATA FOR COMPUTER TAPE STORAGE	VARIABLE BATE NEUTRON SOUNCE	HOT-1505TATIC-PRESSING APPARATUS	METHOD OF FARECATING A STRAINED SUPER-CONDUCTOR MACHET	ROLLER-DAND DEVICES	APPARATUS FOR RESIDING PARTICLES	MICROSCOPE SLIDE AND SPINNER.	A NETHED AND APPARATUS FOR INTERPEROMETRIC MEASUREMENT OF PACEINE SELIES SOLL.	METROD FOR PRODUCTING	DIDKIDE COMPOSITIONS	PERSONS CARRON OR GLAPHITE PRODUCTS AND METHOD OF MAKING SAME	PRODUCTION OF METAL PESISTANT TO NEUTRON IRRADIATION	USANTON ETCHANT AND NETHOD	PRODUCTION OF BICH PURITY MICKEL-66
675,885	766,434	816,237	816,362	743,701	840,566	735,119	351,911	773,1113	359,498		782,714	819,527	118,121	805,560
3,570,530	312,172,5	3,571,595	3,571,850	3,571,922	3,572,141	3,572,405	3,572,890	3,577,937	3,573,036		3,573,086	3,573,109	3,573,120	3,573,165
3/9/71		11/6/5	72/6/18	3/9/11	3/9/11	3/9/71			3/9/11	3/9/71	3/9/71	17/6/1	3/16/71	
D. E. Mourly		M. M. Satterfield 3/9/71 G. R. Dyer	J. P. Mitchell	N. S. Landasky ,	C. C. Anderson V. L. Avons	L. R. Borning			B. C. Carrell J. E. Menick	U. Vogel	F. V. Heilson O. M. Stuetzer	B. J. Hallon L. E. Lorensen	J. A. McGurty C. O. Tarr	
THERMOLUMINESCENT DOSINETER FOR PROVIDENC A TOTAL RADIATION PERSURE	OF RADIOACTIVITY IN A FLUID MEDINE TO WHICH THE DOSIMETER IS EXPOSED	PRERECULATION OF BIGN WOLTAGE SUPPLY CIRCUIT POR A HEDICAL SUCLEAR	AMBIATION DOS DETER	METHOD FOR PRODUCING FOLARIZED ATOMS	PETECTED RADIOISOTOFIC MEAT SOURCE		RECEIVE VILLING NECKTYE VEEDWAX TO	LIDRIANTE ATROSPERIOLITI- LEGUE BEAM INTENSITY WARLATIONS	SOLID STATE CIRCUIT	REMANENT-PREZ PULSENG MACRETS	ANTIFERSOCIECTRIC WOLTAGE RECTAGING	LOW ENERGY EMDIATION BOSTMETER IN THE RANGE OF 15 KeV AND RELOW	METHOD FOR PRODUCING SEARCESS REFRACTORY	NETAL TUBING
798,264		805,262	752,940	886,788	206,972	157,657			851,111	144,838	815,429	755,194	812,435	
3,569,697		3,569,701	3,569,704	3,569,705	3,569,714	3,569,713			3,369,784	3,569,791	3,569,622	3,569,995	3,570,106	

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11/02/4	4/20/71	4/25/71	4/20/71	11/02/4	4/20/11	4/20/11		4/20/11	11/12/4	14/22/4	way.	way.	1/11/11				
P. Greebler	C. C. Ripley	J. Dempsoy	M. T. Jakub G. M. Besson A. J. Anthony	C. A. Barris	D. B. Sullenger	W. L. Pettison J. P. McBride		20 C. R. Thomas	D. S. Treat	E. E. Adems J. T. Batton	E. E. McCoy, 3r.	J. H. Bandwerk J. T. Dusek G. D. White	L. McDonald				
REACTOR FUEL DIC METHOD	WAYE	NOCLEAR REACTOR CONTROL ROD DRIVE ASSEMBLY	FUEL STRASSMELT FOR A LIQUID-HETAL-COCLED, FAST RREEDER REACTOR	SYSTEM FOR SEMONTHS PARTICLES FROM A FULLD BY HEANS OF AN ELECTRIC FIELD	NUCLEAR FUEL CONTAINING PLUT, DETEN BORCARELIES	HETHOD FOR PREPARING URASTINA-CONTAINING	AGRASOLS ESTLOYING A PLATINGH OXIDE CATALYST	APPARATUS FOR HAVING PRESSED C. R. Thomas NOWDER SLEEVES	HEAT PIPE	AMALTICAL PROTOMETER- TO-DIGITAL CONTUES INTERPACING SYSTEM POR	NICKEL-BASE ALLOY	METHOD OF PREPARING FUEL FLATES FOR MUCLEAR REACTOR	PROCESS OF CONDITIONING PARTICULATE MATERIALS WITH	AN ORGANO SILICON COATING FOR USE IN ORGANIC EXPLOSIVES			
751,100	747*100	784,679	909,336	762,460	820,195	821,098		761,472	884,852	20,188	732,962	726,243	896,988				
3,575,803	9/2/2/and	3,575,805	3,575,808	3,575,841	3,575,874	3,575,875		3,576,050	3,576,210	3,576,441	3,576,622	3,576,925	20,025				
3/30/71	3/30/71	11/9/19	4/6/71	11/9/7	11/9/4	4/6/71	11/9/9	11/61/9	4/13/71		4/13/11	4/13/11	4/13/11	11/61/1	4/13/71	4/13/11	4/13/71
J. E. Gerner	L. D. Percivel King	P. H. Macherey	I. Jager	C. A. Wilkins F. D. R. King	D. I. Porst R. L. Anderson	A. J. Mete R. H. Howard	A. Lathin	W. W. Schulz	V. V. Schulz	S. J. Beard	P. T. Codesiabois 4/13/71	A. E. Sends M. E. Serivaer	T. Vermeulen D. E. Kehn	H. D. Stroeberg D. R. Stephens	L. T. Minese	R. E. Coven E. P. Ehart	T. J. Boland
ETDEAULIC CONTROL BOD DRIVE STSTEN	KINETIC INTENSE HEUTHON GENERATOR REACTOR	METHOD POR REPOYAL OF THE POROUS PORTION OF A	POSITION CAPERA VITH MULTIPLAME POCUSING	SEALED CONTAINER WITH PRESSURE RELIEF FOR BAZAGDOUS MITHELAL	STETEN FOR HEASURING A PULSE CHARGE	RATEMETER WITH AUTOMATIC DEAD-TIME CORRECTION	LANDANTED CELLULAR MATERIAL PORM	STRUSTIUM EXTRACTION PROCESS	WASH THEMTHERT TO RESTORE	THE DECRADED DIEHR-IRP USED IN PISSION PRODUCT EXTRACTIONS	METHOD OF PREMAING BERTHLIM NITRAIE SOLUTIONS	PROCESS FOR PANUPACTURING A CILLUTAR CARBON BODY	JET-HIZED LIQUID EXTSACTION COLUMN	PROCESS FOR PRODUCING SINTERED DIAMOND COMPACT AND PRODUCTS	NICKEL-CHROKEN ALLOY	NETHOD OF PRODUCING SPEROIDAL ACCIONERAIDS	SONTIC PLON HETER
747,161	734,961	844,115	611,027	796,352	668,303	882,247	157,978	625,073	809,032		824,207	843,204	822,212	774,274	756,176	744,319	1,482
3,573,166	3,573,167	3,573,424	3,573,458	3,573,462	3,573,615	3,573,639	3,574,103	3,574,531	3,574,532		3,574,533	3,574,548	3,574,558	3,574,580	3,574,612	3,574,654	3,575,049

3/4/71	17/11/8	s/ts/m	11/52/5	31. 5/25/71	mns mns	6/1/m	11/11/9 11/11/9	6/8/71	6/8/71
R. V. Steffens M. F. Zeutschel	C. C. Anderson	P. S. Weaver J. L. Johnson J. R. Winser J. M. Director	J. C. Rosen J. A. inget	E. W. Allises, Jr E. W. Brokleff J. E. Wordyard	G. A. Ray, Jr. J. E. Von Dreele E. G. Anderson	R. C. McMil	V. A. Cibson R. F. Post R. V. Medr	P. 31	A. Laudel, Jr.
AN ELECTROSTATIC ULTRASONIC NON- DESTRUCTIVE TESTING DEVICE	MEANS FOR VENTING HELTIN FROM A BADIDISOTIOFE CONTAINER SELECTIVE STREEPING OF	PLUTONIUM PROM ORGANIC EXTRACTS EXTRACTS ANYICE FOR DETERMINED THE SEARCE OF MAGNETIC SUPPLIES IN TODIBAL CONFUCINATIONS	CONTADING FLASA LIPTING MECHANISM AND REPUBLING MAGBINE	NETSOD FOR PRODUCING A AADIATION RESISTANT WANGARESE ACTIVATED ALBITION OXIDE SCENTILATOR	ACCELERATION SENSITIVE ACTUATOR ACTUATOR MAINTENATION PROPOMETRIC	AMALIZES METHOD FOR READING A TREZDOLUMINESCENT DOSIDETER	LASER EXCITATION APPARATUS ELECTROMACNETIC APPARATUS FOR PRODUCING	AND CONTAINED FLASMAS TEACEMATURE FLASMAS RADIOISOTOFE/ELECTRO- THERMAL THRUSTER	TON BEAM DEPOSITION SYSTEM
801,389	768,225	618,374	805,156	839,510	863,155	2,346	523,887	569, 282	886,168
3,577,774	3,578,442	3,580,802	3,580,804	3,580,822	3,581,577	3,382,652	3,582,817	191,583,161	3,583,361
No. 2	3/2/11	5/4/71	5/4/71	5/4/71	5/4/71	5/4/71	SMITT	5/4/71	
Š	UNTENTORS G. P. McCafferty F. Rudolph, Jr.	E. P. Shane P. J. Peries R. Brown V. Sneberii	W. W. Schulte	J. H. Shaffer D. M. Moulton W. R. Grimes	E. E. Mayffeld J. A. 21c C. F. Hill	C. E. Woods J. M. Baird, Jr. J. S. Jehnson	K. A. Kraus J. J. Percosa Z. L. Ardary A. W. Maxey C. D. Reynolds	R. L. Bestty J. M. Leitnaker K. J. Notz, Jr.	
PATENTS FOR LICENSING	INVENTION METAL PORICING	MEDITAGN ALDICCAAPHY OF DEDITEMATED TISSUE METHOD FOR PRODUCING IGNS UTILIZING A CHARGE-TRANS-	MEASURING INCADIATION- INCUCED DEPOSMATIONS OF MATERIALS	HETHOD FOR SERMATING AND URANIEM, PROTACTINIEM, AND RAIS PROSECTS FROM STRIT POLIEM PROMOCES FROM STRIT POLIEM PROMOTES SALT REACTOR.	NETSON OF CASE BARDEN- INC VANADIUM AND VANAD- IUM ALLOYS	CONTROLLED FUSION REACTOR FILTERING METROD OF SEPARATING LIQUIDS FROM	EXTEMNEDUS MITERALS FIRADOS TERRAL INSTALION AND METRO OF MAKING SAME	NETHOD FOR PREMANTION OF CARBONITRIDE NUCLEAR FUEL MATERIALS	
	748,444	841,573	852,360	25, 92	805,384	820,750	794,980	7%,175	
Vol. XII August 31, 1971	3,566,661	3,576,894	3,577,199	3,577,225	3,577,283	3,577,317	3,577,344	3,577,483	

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6/28/71	6/28/71		11/62/9	1//8/11		1/6/71	1/13/11	1/13/11	1/13/11	1/12/11
O. H. Koskil	M. M. Satter- field E. L. Wittover		P. R. Hill P. R. Hobson	i i	J. A. Patton J. J. Erickson P. E. King	C. W. Mays R. D. Liloyd D. R. Atherton	A. W. Butt, Jr. J. E. Bandwerk	R. P. Buebener	H. A. Bogg	V. V. Schulz
CINCULT FOR DEVELOPING A FOLSE BAVING AN AMELI- TORE DETENHENED BY THE CAPACITURE COUPLED TREATO	NONDLOCKING PREAMPLIFES VALVE AND PULSS FIDTH NONLAIND BATA-LINK USING INFRARED LIGHT TO	CONTROL AND POSITION FOR HODILANDS POSITION FOR HIGH EXPROT LINEAR ACCEL-	THENNING CONVENTER CELLS FOR NUCLEAR REACTOR SUPERCONNINCTING	CTLINDERS FOR FLUX DETECTORS MULTI-CRYSTAL	TOPOCAAPHIC SCANNER FOR MAPPING THIN CEDSS- SECTION OF EADIDACTIVITY IN AN ORGAN OF THE	HUMAN BODY FROTON DETECTOR UTILIZING A WELL-TYPE SCENTILATION CRESIAL	METHOD OF DETECTING INSCHOLENEITIES IN CERAMICS	DIRECT-CHRENT CENTRATOR FOR SUPERCONDUCTING CINCUITS	CROSSED-FIELD ELECTRON INJECTOR FOR AN ELECTRON ACCELERATOR	PLUTONIUM AND NEPTUNIUM EXTRACTION PROCESS
799,167	830,970		784,988	20,287		577,441	837,459	858,828	10,289	850,150
3,588,692	3,588,729		3,590,286	3,591,806		3,591,807	3,592,050	3,593,110	3,593,058	3,595,629
17/8/9	11/22/9	6/22/71	6/22/71	6/28/71	6/28/71	6/28/71	. 6/28/71		6/28/71	
M. Makumura O. H. Koshi F. D. Meu	N. G. Anderson	D. P. Rines N. C. Erupka	126 2	R. H. K. Chan	R. D. Duncen	J. V. Mark E. E. Berney E. S. Clay	E. T. Johnson, Jr. 6/28/71		M. Rabinowitz R. L. Carwin	
SCHELLED MYSTERSIS DOTESTANCE MEASURING DEFICE SIDERSCHOME LOCIC GIGGITS EMPLOYING SMAL	SISTABLE MULTIVISATORS NULLISTATION ANALYTICAL PROTOWETER AND METROD OF USE	WICLEAR TUEL ROD BAVING AN OFFSET PLENUM THEMSCHOOL OF SUPER-	AND TITRITH SESQUICARRIDE FLICTURE STRIFLING TRANSMISSION LINE	HOLOCKAPHIC INTER- FEDDLITER FOR ICOFACHIC STRESS AMALYSIS	GLOVE BOX INDSTABLE CAN ROTATING NEGRAFIESH	ALBOTRO-FLUID VALVE EAUTHO STEIP ELCHERODES OVERFRESSURE SELLEY VALVE RATINGAME VALVE STEM	CUIDE METHOD AND APPARATUS POR MEASURING PAST MEUTHON	FLUDGES VITA CADMINA SULPIDE OR CADMINA SELEMIDE	METHOD OF OPERATING AN ION-CETTER VACUUM PUMP WITH CIM AND CRID STRUCTURE ARRANGED POR	OPTIMIN IONIZATION AND SUBLIMATION
626,154 820,154 832,249	827,185	766,431	151,058	785,173	1,675	663,759	837,460		811,028	
3,584,297	3,586,484	3,586,603	3,586,757	3,587,301	3,587,33	3,587,632	3,588,505		3,588,593	

24178	1											.,,,	11 (27)	RAU I				
11/11/8	11/11/8		11/11/8		11/11/8	11/11/8	11/11/8	11/11/8	11/11/8	11/11/8	11/11/8	8/17/71		8/17/71	8/24/71		8,734/71	
M. Vefnstein M. Remat	E. L. Alvis		J. A. Coleb	J. F. Bobis	P. P. DeVries J. M. Scarborough	C. E. Jaynes	J. E. Germer	V. E. Jergmen	R. E. Wiley	O. E. Tallent	E. G. Porges	E. Sold		D. P. Kelly J. A. Powers	P. A. Tucker D. E. Hendrix H. A. Kernfris		V. Perez-Nandez	
METHOD AND APPRANTUS FOR PRODUCING PINE CRAINED THEROGELECTRIC MATERIAL	JOINT WILLIEDS	WEDGESAFED RECTANGULAR LOCKING SHAFTS	BRIGHT LINE EMISSION	SPECTROSCOFT	SCOTTIM PURIFICATION PROCESS	RARE EARTH ADDITIONS TO UTANITH AND UTANITH ALLOTS	PETULING APPARATUS AND METHOD POR PAST REACTORS	MICHOSTABILIZED SUPER- COMPOCTOR	NETHED OF PROBOCING DISKE CARROW FROM ANTHRACENE	NETHOD FOR PREPABLING STABLE URANIA-PLUTONIA SOLS	REACTOR POWER LEVEL SENSING	DEFICE USING CHERNON RADIATION PRINCES PROTICE NORM	DENSITY PEASSABRENT DEVICE	PLITTONIUM HEAT SOUNCE	EDDY CHRENT SYSTEM FOR VERMATION TESTING OF	CANTILEVERED NOWFERDOUS ARTICLES	WIRE SPARK CHARGER WITH MACHEDOSTRICTIVE READOUT	
715,124	859,469		36,723		858,338	822,695	764,477	834,427	794,761	864,154	864,443	100 300	653,160	616,422	887,695		852,273	
3,599,319	3,600,011		3,600,091		3,600,155	3,600,157	3,600,277	3,600,281	3,600,291	3,600,323	3,600,578		nactional c	3,600,585	3,600,534		3,601,612	
8/3/71	8/3/71	8/3/71		8/3/11	11/1/18	8/3/71	8/3/71	11/1/18	mus		8/10/71	11/01/8	11/01/8		11/01/8	8/10/71		11/01/8
A. R. Wilson, 8/3/71	C. G. Anderson	44	R. M. Bergnen	F. N. Case	J. L. Lawless O. S. Willoughby	L. R. hoyd	V. Rajagopal	C, E, Roffman J, A, Laster	G. E. Urish	L. L. Steinmett F. Bainer	A. E. Ganl	C. C. Ripley F. L. Sockow	S. W. Bohn	V. J. Dimond	R. A. Victor	V. E. Miller	C. A. Nosemin	R. M. Thibsult D. V. Schutt
TOOL POSCE HONITOR	SPACE HEAT SOUNCE	PREFABATION OF TANTALUM METAL		TREATMENT OF TALL OIL	RADIDCEDVICAL COUNTER FOR SOLK MATERIALS	POWER PULSE HOWITORING PROBE	METHOD OF MEASURING BORON CONCENTRATION IN WATER ST NEUTHON ABSORPTION	68		SINGLE CAVITY EDGERGALING LASER PULSE APPLIFIER	PREIPREAL SCANING SYSTEM	CONTROL ASSENCY FOR A NUCLEAR C. C. REACTOR INCLIDING AN OFFSET F. L. COUFLING	PRODUCING STERNPROTOGRAPHS	WITH A CLOSED CINCUIT TELEVISION SYSTEM	CODED ARRANGEMENT OF INDUCTIVELY DETECTABLE ELECTRICAL CONDUCTING	TIME PROPORTIONING PROCESS	INTERPACE FOR DIRECT COMPUTER CONTROL	DOUBLE HELLY MICHONAVE STRUCTURE FOR COUPLING A FINCH A FIRST TO A SECOND RACIDS
810,282	851,152	781,583		728,333	197,509	793,944	851,174	860,526		80,03	849,420	836,360	876,933		795,808	829,913		864,480
3,596,506	3,596,853	3,597,192		3,597,344	3,597,596	3,597,612	3,597,613	3,597,659		3,597,695	3,597,849	3,597,939	3,598,032		3,598,968	3,598,975		3,599,120

J. D. Doos 9/1/71 D. C. Hagerman Los Alamos, N. Nex.

C. J. Borkowski 9/7/71 N. K. Kopp Osk Ridge, Tenn.

J. H. Hell 9/1/71 Palo Alto, Calif.

FIELD FIFTHER TRANSPINER AS A BUPER FOR A SWILL SIGNAL CIRCUIT

881,811(60)

3,603,813

HIGH VOLUME RECEIVEDATIVE PALSE HIGHARDR

10,969(70)

3,603,887

DISTRALLY CONTROLLED PAGE

865,29T(60)

3,603,981.

R. L. Chase 9/7/71 Blue Point, N.Y.

SECRETED CHAN BY DETECTOR ANGLEDER

793, 384 (60)

3,603,756

ENGLINE BADIATION DETECTOR

18,125(70)

3,603,77

W. J. Poppelbaum 9/1/71 Urbens, III. D. C. Rollenhagen Syracuse, N.Y.

11/11/6

J. Kastner B. G. Citzan Ill.

NEUTRON POSIDETER INCLUDING A STEP MEDGE POINCE OF AN ALPER-ATTENDIFINE MATERIAL

863, 737(60)

3,604,931

N. E. Dixon Pesco, Sush.

CAPACITIVE UNINASOUD DEVICE FOR HICHESTRUCTIVELY TESTING A SAUTE

817,505(60)

3,604,251

No. 3		INVENTORS DATE	W. M. Wells 9/7/71 Livermore, Calif.	A. J. Elliott 9/7/72 K. O. Jones	Livermore, Calif.	Shah-pan Ying 9/7/71 Ann Arbor, Mich.	C. E. Lesch 9/1/71 Pasco, Wash.
PATENTS FOR LICENSIDIO		INENTION	APPRANTUS POR DISDALLING A REDIFORCED VESSEL DE AN UN- DERGROUND CAVITY	TEMPERATURE CONTROL SISTEM		PULED ACCUSTIC DAGE CON- VENTER	THELLIN OLDS 18AF SOURCE AND METHOD FOR FORCING SAME
1	13/17	SERIAL NO.	003,703(60)	至,670(70)		728,686(60)	751,454(60)
VOE. XXX	December 20, 1971	PATERT NO.	3,603,096	3,603,107		3,603,139	3,603,415
8/24/71	8/31/71	17/15/8		11/11/8	8/31/71	4/15/71	
3. H. Smith L. L. Reginste	F. R. Itoh	J. Kastner	T. Feige	R. C. Huna	R. R. Hall	J. E. Kinger	
SILICON DIODE PNOTECTION PEARS	NETHOD OF ELECTRON REAK WELDING	PASSIVE MDISTURE METER		PULSE DE RESPONSE TO A RADIATION SURST	CATEDOR FOR DESPLASMENDS.	PAESSHAL-TDGENATURE SENSOR	
\$1,239	561,252	53,057	***	044 Toro	871,689	463,772	
3,601,636	3,602,685	3,602,713	1 400 749		3,602,763	3,439,356	

C. B. Schattt 9/21/71 Onk Bidge, Tenn. G. A. Henry 9/21/71	West Indies 10. Gardner Livermore, Calif. D. D. Scarborough 9/21/71 Pedington Spores, Fla.	L. A. Harreb 9/28/71. Albuquerque, N. Mex.	J. W. Devson 9/28/71 Clarendon Hills, III. R. L. Kiston Ock Levn, III.	3. D. Nichie 10/5/71 R. C. DeSart	F. C. Wilson 10/5/71. Queens Village, N.Y.	W. A. Bell, Jr. 10/5/71 A. M. Vench Oct Ridge, Tenn.	F. Pastner 10/5/71 Downers Grove, III. E. G. Oltman Worth, III.	P. E. Stix 10/5/TL Behovot, Israel A. R. Wilmender 10/5/TL Palo, Alto, Celff.	F. S. Goulding 10/5/71 Laftgrette, Calif.	Walnut Creek, Calif. J. T. Walton Orinds, Calif.	M. Baldensa, Jr. 10/5/71. Downers Grove, Ill.
MOTING FOR PRODUCING FIRMOS CARBON STRUCTURES STEREOUSOEKIC ATDICAS OF	POLINES COPILIX FOR LIPROFED RESISTANCE TO ANDLOTICE DAMAGE ENCAPSITATION NETHER	PROTOCHRONIC MULATION DOSINGTER	TRAVELDIO MANE PARTICLE SERVANTOR INCLUDIOS A RECENSORIAR WAYNE GUIDS LIDED WITH A DIELECTRIC MATERIAL	METHOD OF REMOTELY CONSTRUCTING J. D. Michie A ROOM	PREFACUS PRINTED CINCILL BOARS BY REPORTED BAIS	CHATED MACETIC FIELD FOR CALIFFICITION SOURCE.	COSDETER FORED OF A NAIL- ATION SENSITIVE THEMOCURIDES- CENT MATERIAL AND NETHED OF HANDIY THE SAME	SOURCE FOR HIGHLY STRIFFED IONS ELECTROCIONILY SKITCHED FOR A D.C. MOTOR	CHART SEISTITE PERMITTER USING OPTO-ELECTRONIC PERSONCE		PULSS TRANSFORMER USDIG STRUMLING WINDERGO
8,695(70)	655,230(60)	158,959(60)	836,433(60)	1,088(70)	3,150(70)	895,790(60)	8%,278(60)	8%,337(60) 11,995(70)	873,221(60)		849,984(60)
3,601,988	3,608,023	3,609,093	3,609,351	3,609,976	3,610,752	3,610,923	3,610,926	3,611,029	3,611,173		3,611,233
N. C. Anderholm 9/20/71 A. Goodman Albuquerque, N. Mex.	0. 0. Curry 9/20/11 J. C. Bresser Hogerryce N. Wex. J. A. Noeller Florents, Ariz.	L. L. Brown 9/21/71 Oak Hidge, ferm.	A. L. Giorgi 9/21/71 N. H. Krikorian E. G. Siklara M. C. Krupka	Doubers Grove, ILL.	Selt Lake City, Utah	J. L. Bartos Ohio J. P. Semond 9/21/71 Knoxville, Tenn.	E. P. Purth 9/2/71 G. V. Shefffeld J. L. Jöhnson	Princeton, N.J. R. B. Bobson 9/21/TL R. B. Scott P. B. Hill California	0. S. Sein 9/21/71 Wheaton, III.	J. A. Paget 9/21/71 Imporfal Beach, Calif.	R. S. Stankievicz 9/21/71 Elliagton, Cons.
METHOD AND AFFISATION OF MATERIAL BORDS	CLOSUEZ MECHANICA	CEDITOL EXCENSES METHOD OF CONCENTRATING CARBOI ISOTOFES	PREPARATION OF A SUPERCONDUCT- IND SCANDING-CAURCH PRACE	PLINCHIN SEPARATION THON CAMPIN	PERMANTION OF CHONOCALLY PENCHTNE URANTUM YELOCIDE	TRANSPORTED STRENCTH ALLOT DISPESSION STRENCTHSICHIO OF ALLOCHEM ALLOTS EN PENCTION	OF UNIVERSITY CHIRE DISTRICTORS STELLERANCE CONTICTAVIOR UTILIZING DETERMAL SERVISITIONS	NOGRATED THERMONIC PEACTOR	PLEL ELEMENT VENTURO SISTEM	REACTOR CORS WITH REMOVABLE CORS MEMORY	PERATOR CORE ABIAL LOCKING LEVICE
4,664(TO)	36,035(70)	812,515(60)	864,557(60)	189, 359(60)	4,022(70)	*,310(10)	166,432(70)	T14,22T(60)	卷,575(70)	613,450(60)	741,960(60)
3,605,486	3,605,777	3,607,010	3,601,096	3,607,116	3,607,116	3,607,254	3,601,627	159'109'E	3,607,638	3,607,643	3,607,645

									NOTICES						
G. W. Mason 10/26/71	S. Levery A. F. Bollmeier Joliet, 111	D. F. Peppard Oak Park, III.	R. L. Berris R. A. Leboux Paducsh, Ky.	F. L. Moore 10/26/71 Encaville, Pena.	J. P. Hammond 10/26/71 Khorville, Tern. J. Y. Chang Obk Ridge, Tern.	W. T. Jordan 10/26/71 Pittsburgh, Pe. C. A. Zimerman			Pittsburgh, Ph.	V. E. Arnold 10/26/71	Albuquerque, N. Mex. E. I. Onstott 10/26/71 i Los Alasse, N. Mex.	2. P. Williams 10/26/71			
PROCESS OF SEPARATING PETRLIM PROF. LANTIMATING PARK EASTER		SEPARACTOR OF SEPARACTION	PROM UBANIUM RECAMENDATION OF SAME	ISPLATION AND PREFICATION OF AMERICAN FROM CHERGY SE EXTRACTION CHECKENS BY EXTRACTION CHECKENS BY EXTRACTION	PROCESS FOR PRODUCING DISPERS- IGH-SHATERED SUFFRALLORS BY INTEREST, OCCUPATION	METHOD OF INCOMPANIATING PADIOACTIVE METAL SURPACES	SECONDARY PORTS, BOTTETTION, COLD.	mich couldn't control point	TREADEST POR PROCESSION BANGESTED STATISTICS	NUMBERORS ELECTROFLATING	SEPARTICIS AND FROMENING Albuquerque, N. SEPARTICIS OF PARE EMETRIS HT E. I. Contott ELECTRICISES WITH PORTOR CARBOIL LOS Alamos, N. BIECTRACIES	RADIATION-DENCED IONIC	THE PRESENCE OF LEWES ACLUS OR LEWES BASES		
(01)161(91		806,293(60)		780,100(60)	T5,45(60)	756,579(60)	17.404(70)	20.961(m)		809,508(60)	868, 140(60)	(687,410(60)			
3,615,171		3,615,267		3,615,268	O,625,381	3,615,817	3,615,828	3.615.920		3,616,280	3,616,326	3,616,369			
O. H. Schnetzer 10/5/71. Albuquerque, N. Nex.	N. B. Belter 10/12/71 Perms, Ohio	7. De Perry 10/12/71 Elaburet, III.	K. H. Secker 10/12/71 Ouk Ridge Tenn. J. S. Cheka	Encyrille, Tenn. R. B. Commange Off Ridge, Tenn. E. M. Robinson Knowrille, Tenn.	J. J. Boum 10/12/71 Arabein, Calif. E. W. Belenberg Calumet City, Ill.	R. M. Crd 10/12/71 Richland, Wesh.	W. E. furt 10/19/71 Los Getos, Calif.	E. W. Kenderdine 10/19/71 Sandia Park, N. Mex.	J. A. Schmidt 10/19/71 Niddleton, Wis. D. W. Kerst	Medison, Wis.	8. 6. Wilson 10/19/71 Sen Jose, Calif.	R. P. Koonts 10/19/71	W. L. Brown 10/19/71 J. M. Portlock Albuquerque, N. Mex.		
BALANCED DIPOLE ANTENNA	SUDCESSIVE MANTHE DEVICE FOR SUCCESSIVE MAN-LINE REGERS	DEVICE FOR MEASURED THE POSITION, SIZE AND INTENSITY OF HIGH ENERGY PARTICLES	HIGH SENSITIVITY STRUCKED EXCELECTSON ENCISSION PAULATION POSIDETERS		O-(LA) DETECTOR	MOSEMER SPECTROSTER	PREDABILIO CONTROL, ROD DRIVE DROLLIDIDO A SCRAM CUSELON	PRODUMENTE THES	CHACTITYS-COUPLED PROCES FOR MEASURED FORESTRIES IN A FLASHA.		SATICIBLE MICHONINE CINCL. B LATOR WEREIN GROUD FLANDS S AME COGRESCO OF POLICE SAVING RECTRICALLY CONDUCTIVE PARTICLES	CONTIAL CARE HIGH-FOLDAGE PAGE ISOLATION TRANSPORMES	DETECTION STRIPS		
24,289(70)	758,269(60)	10,176(70)	50,270(70)		14,967(70)	82,380	966,928(60)	TT3,835(60)	813,449(60)		874,191(60)	878,812(62)	26,570(70)		
3,611,398	3,612,804	3,612,858	3,612,868		3,612,869	3,12,875	3,613,512	3,624,465	3,614,606		3,624,670	3,614,694	3,614,724		

100000															
J. E. Monroe, Jr. 11/16/71	J. G. T. Chow 11/16/71 Northport, N.T. A. H. Fleitzen	Selthtow, N.Y. Rokomo, Ind. E. S. Issacs 11/15/71. Shoreham, N. Y.	East Inlip, N.Y.	Chalk Hiver, Ontario C. G. Lemnox	Pinawa, Munitoba W. G. Mathers Person, Menitoba	8. Flatherty 11/16/71	Pitteburgh, Fa.	I. Alexeff 11/16/71	R. V. Neidigh Keovyille, Tenn. W. B. Mug Pells, Iows	S. A. Jelbert 11/16/71 Los Alamos, S. Mex.	R. D. Helbert Los Alamos, N. Mex.	C. J. Borkowski 11/16/71. Onk Ridge, Tenn.	V. L. Gelerumes 11/15/71	King of Pressin, Pa. P. A. Johnton King of Pressin, Pa.	
METHOD OF POSITION A TRESHALL BALESEVITY CONTING ON A NET-ALLIC SUBSTRACE	PROCESS FOR PRODUCING COGAUT	CERTICAL POLISEDIO OF METALLIC SOUTH	Courton cratician con			NETHER OF OPERATING A	RADIOISOTOTE HADIATION BOUNCE	KINDE PREGNENCY SIGNAL CORRELATOR		GUMM DESISTING ATR MOSTOR POR PRODUCTIVE	CACOO.	DIFFERENTIAL PRESSURE NUCLEAR RADIATION FLUX DETECTOR	BETA PARTICLE DETECTION IN	THUS NUCLEAR DETECNORS	
(691,281(60)	15,237(70)	(01)881/64	Over pecifical	(no)((64))		874,749(60)		(69) 381 (60)		72,042(70)		30,715(70)	17,403(70)		
3,620,808	3,620,652	3,620,859	-	3,620,920		3,620,917		3,621,223		2,621,236		3,621,254	3,621,257		
P. S. Case 10/26/71 Ook Ridge, Tenn. D. E. Smiley	Knozville, Tenn. D. L. Kau Rockwod, Tenn.	P. A. Hass 11/2/71 Knoxylle, Tenm. S. D. Clinton Onk Ridge, Tenm.	L. E. Pohl 11/9/71 Los Catos, Calif. P. Roy	Saratoga, Calif.	San Juse, Calif.	R. E. Pelt 11/9/71 Richland, Wash.	R. W. Stachle 11/9/71 Columbus, Onlo	Juan Royuels Medrid, Spain	W. Chubb 11/9/71 Worthington, Onio D. L. Keller R. A. Wullsert	Y. W. Stornok Columbus, Chio	G. S. Haynor 11/16/71 Memorville, N. Y.	W. B. Highey 11/16/71. H. L. Silcocks J. A. Waggoner	Livermore, Calif.	T. E. Benham 11/16/71 Joliet, 111.	A. S. Wison 11/16/71 Etchland, Fashington
ETCH-PRESSURE BADIOLYTIC OCCUPATION OF CYCLORECANS		METSOD FOR PRESENTING OUTLE CELL MICHOSPIENES PROM SOULS	COLLD TRAP	MANUFACTURE SERVICE STATE STAT	OF PELCHTUM FROM BESMITH	PROCESS FOR DIRECTLY REDUCEDS FUNCATUR DIRECTLY REDUCEDS	STRESS-CORROSICH-RESISTANT ALLOI		PEL SUNSSHELL FOR A NULLAR PEACHOR.		SATING SELECT FOR ROTO-SLIDE SAUGEZRA	ESC AMELIPATING ELECTRODS PICKUP		METALLIZING CHUGER VIENDRO STETEN	OBCANTO PARCE REDUCTION OF PLANCING IN A PRESE TITE PROCESS
856, 464(60)		860,281(60)	8,50e(70) . cata trave	and of offers	0)2,70)(0u)	887,039(60)	181,802(60)		822,211(60)		(01)584,64	873,223(60)		1,004(70)	818,822(60)
3,616,378		3,617,585	3,618,770		Gens, 923	3,619,178	3,619,180		3,619,366		3,620,078	3,620,208		3,620,604	3,620,687

*See page -11- for Pat. No. 3,625,767 and 3,625,818

												124	
R. B. Hobson 11/30/71 T. E. Griffin San Jose, Calif.	N. R. Hobson 11/30/71. P.E. Griffia Sen Jose, Calif.	A. P. Press 11/30/71	C. C. Derm 11/30/71 Alamo, Celif. R. F. Post Well must Greek, Celifs.	J. Grey, Jr. 11/30/71 Wheston, III.	J. E. Burnel 11/30/71 Los Alamos, N. Bex.	E. D. Hadson 11/30/71	Rowille, Ton.	Kennovick, Wash.	R. D.Carson 11/30/71 Le Grenço, 111.	A. P. Grunweld 11/30/71 Chicago, 111.	L. W. Anderson 11/30/71. Onk Hidge, Tonn. M. J. Stephenson Ook Hidge, Penn.	F. C. Nobertshaw 11/30/71 B. J. Perkins Cincinnati, Obio	5. J. Asbury 11/30/70 Encorille, Term.
NUCLEAR SEACTOR	NUCLEAR PEACHOR AND THERMORDS CONVEYING CRIES THEREFOR	PULED LASSE-ICHTED THERMO- EXIZAR HEACTOR	PEEDBACK STABILIZATION OF A MORETIONLLY COSTINED FLASHA	DIOTEAL PLOTEING IEVICE	TWO-FLASIA CIN INCRETIC FIELD LOADING METHOD	WATERICALLY SELF-SHAPING	CONTRIBUTE STANDEN STREET	TEMPERATURE NETER	CLASED FLUID STOTEM PRESSUREARTICH	READERS AND VRITTED MACHINE USING MACHINE	SEDANTICH OF TITALITH FLACELLE AND MICEULH FLACELLE FROM CASSOLIE LIMATION NECAFILICELLE	NOTE, INDI-CHOUN- REPLIEUR ALLOT STOTIN	NETHED FOR PRODUCEDS PORCES UNAVITAR
467, Bez (60)	467,822(60)	10,516(70)	22,294	874,192	68,579	72,387(70)	(09)75,939		11,991(70)	874,734(60)	849,200(60)	812,360(70)	Th,633(60)
3,623,946	3,623,947	3,624,239	3,624,240	3,624,370	3,624,443	3,624,527	3,624,709		3,624,759	3,624,772	199'529'60	3,625,675	3,665,680 , 772,633(60)
P. T. Princicts 11/16/71 Baltimore, Mt. H. M. Barr Baltimore, Mt.	J. R. Purcell 11/16/71 Downers Grove, 111.	E. P. Edwards 11/23/71 Whittier	J. Pubmawa Menterey Park R. L. Solnick Wewport Beach, Calif.	F. J. Gillespie 11/23/71 Seminole, Fla.	E. P. Hill 11/23/71 Southfield, Mich.		C. F. Holcombe, Jr. 11/23/7, Onk Eldge, Tenn.	E. R. Johnson 11/23/72	Chevy Chabe, Md. S. N. Ledov Maple Shade, N.J.	E. W. Holtzschelter College Perk, Mi.	E. E. Johnson 11/23/71. Chery Chase, Md. E. N. Ledov Maple Shade, N.J.	E. S. Cley 11/23/71 Los Altos Hills, Calif.	D. W. Gregg 11/23/71. Laftsyette B. K. Pearson Fleasanton, Calif.
ANDIGEOGE WEL CAPSUE	METHOD OF DETENDING BONDING IN A CORPOSITIE BUTTENCONDUCTOR	DEST FILES APPARATES UTILIZING GAUNTAR SOLID	FILES SEDIA	RESEDY WACTER DECASEDIO AND DESPENSEDIO SYSTEM AND METSED	WETHOD FOR INNOVING HURGOESI FROM ALMALI MEDALS AND THE	TIDE	METHOD FOR HEJUVENATION HERPACTURY ARTICLES	METHOD OF DICERSONS THE	COROLLO CONTACTOR DE CONTACTOR		METHOD OF ENCOUNTS COCHECUMOS ENGINEED IN COCHECUMOS	OBJECT POSTTORING LINGUES MAYING A STRUCK SHAPE FURNE.	HOUSE ENERGY CHROCOLL LANSER SUSTEM
613,489(60)	885,576(60)	(09)040*088		855,231(60)	552,317(60)		844,202(60)	874,030(60)			874,031(60)	10,515,01	(oz)(cs)(on
3,621,261	3,621,366	3,621,639		3,621,892	3,622,303		3,622,312	3,622,480		(0,622,481 0	3,622,830	3,623,145

2418	4							1	OTICE	S		
14/12/21	12/22/21		14/12/21	11/12/21	-	n/ra/a	n/m/m	11/12/21	11/1/21	17/1/21		
R. S. Stantlevice 12/21/71 Ellington, Cons.	Shoe Hess.	C. W. Teng Cambridge, Mass.	J. P. McBride Ock Ridge, Tenn. K. E. McCorkle	W. L. Pettison Emorville, Tenn. 5, W. Shoes Idebo Fells, Idebo		M. W. Wilding Kaho Palls, Idaho	I. L. Thorse Oak Ridge, Tenn.	B. A. Soldano W. T. Ward Oak Ridge, Yern.	R. P. Clark K. R. Grothaus	Albuquarque, N. Mex. R. C. Ross 12 Armork, H.Y. G. Breidenbach	Sew York, M.Y.	73;8:45 am]
TRACENATURE ACTIVATED REACTOR CORE CLAMP	PROCESS FOR SZEMJAKTING SPECIFIC RADICELEMENTS,	SINGLY OR MULTIPLY, FROM A MONTHE OF RADIOACTIVE REPRENTS	PROUCTION OF PREDOUSI- ANTA CHESALLIDE SOLS OF USANIA	METHOD OF MALEFADRISC WARMER DESSITY	DISSULTER SQUITTIGIS CRITICALLY SAFE	METHOD OF DISSOLVING PADICACTIVE CONTAMINATED CREANIC TON EXCHANGE FESTINS	NOTHED FOR EXCENSING CONTESTORS IN ACTINIDE OCURS SULE	REMOVAL OF CHEANTIC LOUDE PROF SADIO- LOUIS-CUTA-DICHO	ADMOGRADESS TREAML BATTER	PLECTRIE COPE NEACTOR		[FR Doc.73-18204 Filed 9-4-73:8:45 am]
813,689(60)	199,113(50)		814, 311(60)	814,523(60)		766,653(60)	(09)560,1798	(09) 506'664	885,751(60)	730,202(60)		al .
3,629,070	3,629,132		3,629,133	3,629,134		3,629,135	3,629,138	3,630,942	3,625,167	3,665,818		
F. F. Berry 12/1/71 J. D. Bell	f. Puruta Austin, Tex.	A. V. Crewe 12/7/71 Pelos Perk, III.	E. P. Furth 12/7/71 M. M. Rosenbluth Princeton, M.J.	D. Ophir. 12/1/TL East Factorgue, N.Y. B. J. Shepard San Jose, Cellf. R. J. Shired	R. A. Becken 12/14/71	W. C. Tee 12/11/71 Out Ridge, Tenn.	3 B. E. Jepson 12/14/71 Dayton, Onio	G. S. Petit 12/14/71 R. R. Wright Onk Ridge, Tenn.	A. B. Boulogne 12/14/71 J. P. Farsci Alken, S.C.	R. C. Noyes 12/21/71 Barfford, Cons. M. C. Andrews Newlagton, Cons.	E. O. Mueschov 12/21/71 Avod, Come.	W. M. Knux 12/21/TL Schenectady, N.Y.
SADIOSONOES ANALYTICAL INSTRINGIT PUR COGUR	AMALINES OF CONTRETS	DETECTOR SENTEN FOR A SCANN- DAD SELECTRON HECKOSCOPE	HIGH ENERGY TON ACCELERATOR	STREET DESCRIPTION DESCRIPTION OF STREET	CAS RECOVERY STREET	CENTRAL PER RESALIBITION OF CAMES FOR RESALIBITION OF CAMES FOR RESALIBITION OF CAMES FOR THE PERSON OF THE PERSON	PACCESS FOR EMBICEDIO CARSON-13 B. E. Jepson Dayton, Ohio	ELECTROLITIC PROCESS FOR CLEAN- DAY HIGH-CARBON STEELS	MATERIA OF PREPARED A CALIFORNIA - SS NEUTRON SOURCE	FIEL SUBASSINGLY FOR NICLEAR MALTIN	TRANSFER MACHINE FOR MICIEMA REACTOR	AFPARATUS FOR INCPEASING FORES DESIGNATION AND ANGULD MULICIAE REMOTIVE
54,951(70)		16,802(70)	794, 314(60)	197, 765(60)	32,678(70)	766,438(60).	868, 494 (60)	878,197(60)	1,484(70)	824,926(60)	823, 704(60)	844,041(60)
3,626,183		3,626,184 16,802(70)	3,686,305	3,626,404 / 1971,195(60)	3,627,041	3,627,479	3,627,487	3,627,654	4,627,691	3,629,061	3,629,062	3,629,065