



PATENT OFFICE REPORT FOR THE YEAR 1861—MECHANICAL.

LETTER

FROM

THE COMMISSIONER OF PATENTS,

TRANSMITTING

The Mechanical Report of the Patent Office for the year 1861.

FEBRUARY 14, 1862.—Laid on the table, and ordered to be printed.

JUNE 5, 1862.—*Resolved*, That twenty thousand extra copies of the Mechanical part of the Patent Office Report for 1861 be printed for the use of the House, and ten thousand copies for the use of the Patent Office.

UNITED STATES PATENT OFFICE,

February 13, 1862.

SIR: I have the honor herewith to transmit the annual report of this office for the year 1861, to be laid before Congress.

I am, very respectfully, your obedient servant,

D. P. HOLLOWAY,

Commissioner of Patents.

Hon. GALUSHA A. GROW,

Speaker of the House of Representatives, Washington, D. C.

UNITED STATES PATENT OFFICE,

January 31, 1862.

SIR: In conformity with the requirements of the 14th section of the act of March 3, 1837, entitled "An act in addition to the act to promote the progress of science and useful arts," I most respectfully submit the following report:

In the section of the act above referred to it is declared to be the duty of the Commissioner of Patents "to lay before Congress, in the month of January, annually, a detailed statement of the expenditures and payments by him made from said (patent) fund. And it shall also be his duty to lay before Congress, in the month of January, annually, a list of all patents which shall have been granted during the preceding year, designated under proper heads, the subjects

of such patents, and furnishing an alphabetical list of the patentees, with their places of residence; and he shall also furnish a list of all patents which shall have become public property during the same period, together with such other information of the state and condition of the Patent Office as may be useful to Congress or to the public."

The first provision of the above instructions to the Commissioner requires "a detailed statement of the expenditures and payments by him made." For a more complete and intelligible exposition of the affairs of the office, I beg leave to submit the following statement:

No. 1.

Number of applications received during the year.....	4,643
Number of patents granted, including designs, reissues, and additional improvements.....	3,340
Number of caveats filed.....	700
Number of applications for extension of patents.....	16
Number of patents extended.....	21
Number of patents expired December 31, 1861.....	546

No. 2.

Statement of moneys received during the year.

On applications for patents, reissues, designs, additional improvements, extensions, caveats, disclaimers, and appeals.....	\$125,601 00
For copies and for recording assignments.....	11,753 44
Total.....	137,354 44

No. 3.

Statement of expenditures from the patent fund during the year.

For salaries.....	\$92,868 92
For contingent expenses.....	59,502 36
For temporary clerks.....	43,791 31
For withdrawals.....	23,173 32
For refunding money paid by mistake.....	1,306 00
For judges in appeal cases.....	850 00
Total.....	221,491 91

No. 4.

Statement of the condition of the patent fund.

Amount to credit of patent fund on January 1, 1861.....	\$89,554 07
Amount paid in during the year.....	137,354 44
Total.....	226,908 51
From which deduct expenditures during the year.....	221,491 91
Which leaves to the credit of the patent fund January 1, 1862..	5,416 60

No. 5.

Quarterly statement of expenditures for 1861.

First quarter.....	\$61,050 23
Second quarter.....	62,439 25
Third quarter.....	52,104 58
Fourth quarter.....	45,897 85
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Total expenditure.....	221,491 91
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No. 6.

Table exhibiting the business of the office for twenty-five years ending December 31, 1861.

Years.	Applications filed.	Caveats filed.	Patents issu'd.	Cash received.	Cash expended.
1837.....			435	\$29,289 08	\$33,506 98
1838.....			520	42,123 54	37,402 10
1839.....			425	37,260 00	34,543 51
1840.....	765	228	473	38,056 51	39,020 67
1841.....	847	312	495	40,413 01	52,666 87
1842.....	761	291	517	36,505 68	31,241 48
1843.....	819	315	531	35,315 81	30,766 96
1844.....	1,045	380	502	42,509 26	36,344 73
1845.....	1,246	452	502	51,076 14	39,395 65
1846.....	1,272	448	619	50,264 16	46,158 71
1847.....	1,531	553	572	63,111 19	41,878 35
1848.....	1,628	607	660	67,576 69	58,905 84
1849.....	1,955	595	1,070	80,752 78	77,716 44
1850.....	2,193	602	995	86,927 05	80,100 95
1851.....	2,258	760	869	95,738 61	86,916 93
1852.....	2,639	996	1,020	112,056 34	95,916 91
1853.....	2,673	901	958	121,527 45	132,869 83
1854.....	3,324	868	1,902	163,789 84	167,146 32
1855.....	4,435	906	2,024	216,459 35	179,540 33
1856.....	4,960	1,024	2,502	192,588 02	199,931 02
1857.....	4,771	1,010	2,910	196,132 01	211,582 09
1858.....	5,364	943	3,710	203,716 16	193,193 74
1859.....	6,225	1,097	4,538	245,942 15	210,278 41
1860.....	7,653	1,084	4,819	256,352 59	252,820 80
1861.....	4,643	700	3,340	137,354 44	221,491 91

While the aggregate receipts of the office have been but \$137,354 44, the expenditures have amounted to \$221,491 91.

By the act of March 2, 1861, the expenses of the office were largely increased, as follows:

Salaries of examiners in chief.....	\$6,437 53
Salaries of Commissioner and chief clerk.....	1,500 00
Printing.....	17,854 37
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Total.....	25,791 90
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The receipts of the past year have fallen \$118,998 15 below those of the previous year; and the expenditures, omitting the above \$25,791 90 as extra, have been \$51,220 79 less than those of 1860. The cause of this great falling off of receipts must be apparent to every reader. The great inventive mind of the country has been attracted in another direction by the startling scenes of rebellion which have transpired. A state of civil war has deprived this office of the patronage of most of the slave-holding States; the enterprise of the loyal States has, to a great degree, been paralyzed, and the sale of patent rights, as an article of traffic, has, in a great measure, been abandoned.

To provide for this state of affairs, I have been compelled to resort to a most rigid economy. To bring the expenditures as nearly as possible within the ability of the office to meet them, by way of retrenchment I dismissed five principal examiners, five assistant examiners, and five second assistant examiners. The compensation fixed by law of the principal examiners is \$2,500; the assistants, \$1,800; the second assistants, \$1,600. The business required that seven of each of these classes should be retained; but a still further reduction of expenditure being necessary, I dismissed the principal examiners and appointed them assistant examiners, and they are now receiving but \$1,800 per year; the assistant examiners were dismissed and appointed second assistant examiners, at a salary of \$1,600; the second assistants were dismissed and appointed clerks, at an annual salary of \$1,400. These officers, however, have all been performing the duties pertaining to their original positions. A large reduction was also made in the salaries of the clerks. The temporary clerks, who formerly received ten cents per one hundred words for copying, are now paid but eight cents. This was regarded as a legitimate reduction, as the office receives for such work, by law, the same compensation formerly paid the clerks, while the expense of superintending clerks, stationery, &c., exceeded five thousand dollars per annum. A large number of laborers, watchmen, and attendants have been dismissed, and their places are now vacant. The reduction of the salaries of the examiners and clerks has been very onerous to them. The expenses of living in this city are largely increased by the centring here of a large army, and the attraction of thousands of civilians, who largely consume the necessaries of life, which, at all times, are less abundant here than in many other portions of the country. The military necessity, which required the closing of the communication between the farmers of Virginia, from whom a greater part of the usual supplies come, and the market of this city, has contributed much to the expense of living in Washington. For these reasons I respectfully submit to Congress the justice and propriety of conferring upon the Commissioner of Patents authority to refund the difference in the salaries of the examiners and clerks, between the amount allowed by law and that now received by them, whenever, in his opinion, the funds of the office will justify it.

The 14th section of the act approved March 2, 1861, provides "that the Commissioner of Patents be, and is hereby, authorized to print, or, in his discretion, to cause to be printed, ten copies of the description and claims of all patents which may hereafter be granted, and ten copies of all drawings of the same, when drawings shall accompany the patents: *Provided*, the cost of printing the text of said descriptions and claims shall not exceed, exclusive of stationery, the sum of two cents per hundred words for each of said copies, and the cost of the drawing shall not exceed fifty cents per copy; one copy of the above number shall be printed on parchment, to be affixed to the letters patent; the work shall be under the direction, and subject to the approval, of the Commissioner of Patents, and the expense of the said copies shall be paid for out of the patent fund."

In accordance with this provision of the law, and with the approval of the Secretary of the Interior, I contracted with a responsible party for the execu-

tion of the work. The issues from the 2d of March to the 1st of November, 1861, were printed in a superior style, and the drawing executed in the most satisfactory manner by the photographic art.

This feature of the law has given eminent satisfaction to the inventors of this country, and has commanded the admiration of inventors and the superintendents of patent departments in many other countries. The imperative necessity which required it to be suspended was and is greatly to be deplored; but I earnestly hope that Congress will take the necessary steps to resume it at as early a day as practicable.

The importance of furnishing to the public the most complete practicable information in relation to every patented invention is obvious. Each patent, as the name implies, should be open to the perusal of all, and as it has the effect of a law should be published at the public expense, as all other laws. The people of the country should have full information as to all patented inventions, firstly, that by a knowledge of the full extent of the exclusive privilege claimed by the holder of a patent they may not be exposed to damages for infringing upon it; secondly, that they may not be induced to believe that the holder of a patent has exclusive privilege for more than is described and claimed in his specification; thirdly, that they may be informed as to the actual progress of the useful arts and avail themselves of the most useful inventions; and fourthly, that the whole inventive genius of the country may be stimulated by the examples and suggestions furnished by descriptions and representations of each year's inventions.

Congress has evinced its appreciation of the importance of furnishing such information by the large appropriations which it has heretofore authorized for the publication of the mechanical reports of this office. I have been furnished by the Superintendent of Public Printing with a statement of the cost of printing, paper, binding, &c., of the mechanical reports of this office for each of the last three years, which is as follows:

1858, 3 volumes, 32,950 copies, cost.....	\$85,659 08
1859, 2 volumes, 68,550 copies, cost.....	138,700 32
1860, 2 volumes, 66,550 copies, cost.....	118,992 09

These reports contain merely brief abstracts of the specifications made originally by examiners in the office, and latterly furnished by individuals out of the office by contract, and consequently prepared with the least possible expenditure of labor and expense, with the claims generally unintelligible, without the full description contained in the specifications. Meagre and unsatisfactory as these abstracts are, the reports have been most eagerly sought for by the public. The publication of these reports will, I think, prove to have been most wisely suspended, if the substitute can be provided which was intended to be secured by the late law.

In making provision for this great public want Congress should not be unmindful of the examples of other nations most advanced in the mechanical arts. In Great Britain, France, Sardinia, and Belgium, the specifications are published in full, and in such a form that printed copies may be furnished to all who may apply for them, at cost price, while the entire publications are extensively distributed for the free use of the public. In Prussia, Saxony and Bavaria, official journals are published containing full abstracts and lists of the specifications of patents. The publications of specifications of patents made by the French government consist of 91 volumes, quarto, of the old law, and 35 volumes, quarto, of the law of 1844. All which have been presented to the library of this office.

In Great Britain the publications of the specification and drawings of patents has been made upon a scale of magnificence which entitles it to be regarded as one of her great national works. The great seal patent office has published the complete specifications and drawings of patents granted by that office since

1623, in two series, the old law series from 1623 to 1852, and the new series from October, 1852, to the present time. The old law series, comprising 12,977 patents in number, are contained in about 900 volumes, 450 folio volumes of drawings, and the like number of imperial octavo volumes of letter-press. The indices form seven imperial octavo volumes. The cost of these works in 1859 amounted to £92,000. The expense of printing for 1859 was estimated by the Commissioner of Patents at £17,500.

The publications of the great seal office consist of the specifications and drawings of patents granted, (the drawings are not photographic,) a subject-matter index of patents, an alphabetical index of patentees, a chronological index of patents, commissioners of patents journals, (published semi-weekly,) assignments of specifications of various classes of patents, of which twenty volumes have been published, and all are in course of publication.

The publications are distributed among one hundred and seven libraries and offices in Great Britain, twenty-six libraries in the British colonies, and twenty-two in foreign countries. Of these last, six are in the United States; the cost of which has been upwards of £10,000. The cost of the continuation is at least \$1,500 weekly. For these costly works our government has been able to make no return except the meagre abstracts heretofore published by us.

No attempt has been made in the publications ordered by me, under the provisions of the late law, to imitate the costly works published by the great seal office; but the publications, though not wanting in taste and finish, are believed to be of equal practical value. Many advantages have already been presented by a brief trial of this system in this office, among which may be mentioned the readiness of inventors to furnish more artistic and detailed drawings, at a greatly increased expense, with the view of exhibiting these inventions to the best advantage; a change which would greatly facilitate the examinations of the office as well as aid inventors in making inquiries as to the patentability of their inventions. Through the improvement in the drawings, thus effected, and by the adoption of the photographic system of illustration, it is believed that the publications, if continued, would surpass in practical value those of Great Britain.

The depressed condition of the financial affairs of this office, incident to the state of the country, has alone induced me to abandon the wise provision of Congress, requiring the printing in full of the specifications and drawings of the patents issued from this office. From a careful examination of the matter, I am induced to believe that if Congress were to appropriate a sum sufficient to defray the expense heretofore incurred in the printing of the specifications and drawings of the patents, and which will not exceed one-half the sum heretofore expended from the general fund of the government, the office will be able hereafter to meet the expense thus to be incurred. This will enable those who desire copies to secure them at a small cost comparatively with what they now have to pay for manuscript copies. I am induced to believe that an appropriation of fifty thousand dollars for the present year would enable the office to carry out this most salutary provision of the law of the last Congress. An abandonment of the publication of the mechanical reports, rendered unnecessary by the printing of the specifications and drawings, under the law of March 2, 1861, would save to the government, after making the appropriation above requested, the sum of \$

The restoration to the Patent Office fund of the amount withdrawn from it in conformity with the provision of the law of March 2, 1861, would be an act of simple justice to the inventors of the country, by whom this fund has been contributed. It would seem to be inequitable for them to bear the expense of introducing a new system of publication, the benefits of which are not for themselves but the general public. It is believed that this charge would not have

been imposed by Congress upon the patent fund, if the diminution of then existing surplus fund, in consequence of the financial difficulties of the country, had been anticipated. The inventors have already been heavily taxed for the erection of the Patent Office building. There has been contributed by the patent fund for this purpose :

By act of July 4, 1836	\$108,000
By act of March 3, 1849	50,000
By act of May 15, 1850	90,000
By act of September 30, 1850, appropriating \$110,000, if so much remained in the patent fund	71,000
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Making the whole amount contributed	319,000
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The appropriation of this fund is justified only by the consideration that the inventors derive the most immediate benefit from the use of the Patent Office building. It cannot be doubted that the whole patent fund should be preserved for the use of those who contributed it, and certainly that the efficiency of the office for whose support this fund is primarily intended should not be impaired by the diversion of any part of it for secondary purposes. Congress has heretofore recognized the propriety of reimbursing the patent fund for all sums withdrawn for the benefit of the general public. Appropriations had from year to year been made of sums to be paid out of the patent fund for the collection of agricultural statistics and the purchase of seeds. By the act of March 3, 1855, the sum of forty thousand and seventy-eight dollars and seventy-eight cents was appropriated by Congress, to be paid out of any money in the treasury not otherwise appropriated, for the reimbursement to the patent fund of the whole amount thus withdrawn from the fund for the purposes above mentioned.

It is important to be observed that it is indispensable that the printing of these publications should be done under the immediate supervision and control of the office. The specifications and drawings should not be removed from the office, as they are in constant demand for reference, and the inventors demand that there should not be a day's delay in issuing the patents after their date, which will be always liable to happen if the work should be done with other public printing. The type should be set up within the office, directly from the specifications. By doing this the cost of copy for the printer and the cost of recording the specifications will be saved, both of which are necessary when the setting of the type is done out of the office. The saving in these two items are the most important elements of the practicability of continuing the printing at the expense of the office.

As these publications, if continued, will be intended to supply the place of the former Patent Office Reports, and the gratuitous distribution to individuals will, of course, be dispensed with, some provision should be made to place them before the public. A sufficient number might be purchased by Congress at the same rate that may be charged to individuals, to place them in the most important libraries in each State, and to make exchanges demanded by national courtesy with foreign governments. A thousand copies, it is believed, will be sufficient to communicate the information as to the inventions of this office as effectually as has been done by the gratuitous distribution to individuals of the former reports.

PROPOSED AMENDMENTS.

By the law of March 2, 1861, it is provided that on filing each original application for a patent, except for a design, fifteen dollars shall be paid, and on

issuing each original patent, twenty dollars. Practically, this postponement of the payment of the final fee operates disadvantageously to the office. The evidence of the truth of this statement is found in the fact that more than four hundred patents which have been ordered to be issued are now in the office awaiting the payment of the twenty dollars. Thus the office is deprived of more than eight thousand dollars, for which it rendered its time and labor. If this provision should remain as it now is the number will largely increase, and, of course, will prove a great loss to the fund, and may prove the source of endless litigation. It may be further observed that, until the additional fees are paid on these applications, each operates as a caveat which may be perpetual without the yearly renewal and fee required in other cases for perpetuating caveats, the public deriving no benefit from the publication of the patent, and other inventors being excluded from obtaining patents for the inventions. I would respectfully suggest that the law be amended, either by restoring the former provision, that the whole fee be paid on making the application, twenty dollars to be repaid to the applicant when the application is finally rejected and withdrawn; or that the application fee, intended to cover the expense of examination, should be increased to twenty-five dollars, and that ten dollars should be required on the issuing of the patent.

The avowed object of the second section of the act of the 2d of March, 1861, is "securing greater uniformity of action in the grant and refusal of letters patent." This is attempted to be effected by the creation of three examiners-in-chief, whose duty it is made to "revise and determine upon the validity of decisions made by examiners when adverse to the grant of letters patent, and in interference cases." It was expected by this means to relieve the Commissioner of a portion of the labor of the duties of office imposed upon him, but it has utterly failed to secure this last-named object.

As now constituted under the law, the examiners-in-chief form a tribunal independent of the Commissioner in all cases of rejection or interference decided by the examiner. An appeal lies from the examiner to them, from them to the Commissioner, and from him to one of the judges of the circuit court of the District of Columbia.

The chief justice has decided that an appellant must go through each tribunal before the judge of the circuit court can take jurisdiction of his case.

This state of the law and practice is far from beneficial to the public, and does not tend to secure greater uniformity of action in the grant or refusal of letters patent, and does certainly greatly augment the labor of the Commissioner. The act, in my opinion, should be so amended as to render the duties of the examiner-in-chief advisory only, so that an appeal, as formerly, may be taken from the examiner or from the Commissioner to the circuit court. All appeals should be taken from the decision of the examiner directly to the Commissioner, who could then refer it to the examiners-in-chief, or, if his time permitted, hear it in person.

The disturbed condition of the country has brought to view a deficiency in the patent laws with respect to the protection of the rights of assignees of inventions, which demands the attention of Congress. In many cases patents cannot be awarded to applicants except upon amendment of their specifications and claims. After an application has been once examined and rejected, the law requires a renewal of the oath of invention, by the inventor, before the amended specification can be re-examined. Cases have lately arisen where an inventor having filed his application for a patent, and assigned his whole interest in the invention, has disappeared or is *non inventus*, after the first examination and rejection; although in such case the defects in the specification might be cured by amendment, the inventor cannot be found to renew the oath required by law, and the assignee, the actual holder of the invention, is without remedy. In

case of the death of an inventor before a patent shall have been granted for his invention, the right of applying for and obtaining a patent therefor devolves, by law, upon his executor or administrator. I would recommend that provision be made, by law, that when the inventor after making his application and assigning his invention may not be found, the right of renewing the oath of invention and amending the specification shall devolve upon the assignee.

It is difficult to conceive of any substantial reason for the provision contained in the 7th section of the law of 1836, which requires that an applicant for a patent, before making any alteration in his specification, "shall be required to make oath or affirmation anew." It is certain that no protection to the public is secured by this provision, while the requirement is a matter of great inconvenience to the applicant and the office. The inconvenience of this requirement has been particularly apparent since the number of foreign applications has been greatly increased, in consequence of the reduction of fees made by the law of 1861. Applications from Europe and California have often been delayed for months for the renewal of the oath required, before the slightest amendment could be made. I would recommend that the laws be so amended as to dispense wholly with the renewal of the oath of invention.

COPY-RIGHT.

The duties connected with the custody of all books, maps, and other publications deposited in the Department of the Interior, according to the laws regulating copy-rights, having been imposed upon this bureau, for the execution of which duty a yearly appropriation is now required, I beg leave to recommend a reform which will not only save this expenditure but secure other important advantages to the public.

By the act of Congress approved May 31, 1790, it was required of every person desiring to secure a copy-right, to deliver a copy of the work to the Secretary of State within six months of its publication, "to be preserved in his office." This requirement continued in force under the amendment to the act approved April 29, 1802, and by the "act amending the several acts protecting copy-rights," approved February 3, 1831, it was required that a copy of the work should, within three months of its publication, be delivered to the clerk of the district court of the United States of the district wherein the author or proprietor should reside, and that it should be the duty of the clerk once at least in every year to transmit all copies of works thus received to the Secretary of State, "to be preserved in his office." By an act approved February 5, 1859, the Secretary of the Interior was substituted for the Secretary of State, and all works and records heretofore received were ordered to be transmitted by the latter to the former, no change in any other provision of the copy-right law being made.

It appears, therefore, that for a period of seventy years, from 1790 to 1860, one copy of every work claiming security of copy-right has been required by law to be deposited in an executive department of the federal government for a period of forty years by the author directly, and for thirty subsequent years through the agency of clerks of the United States district courts. The result contemplated by this requirement was a collection of copy-right matter at the national capital in the lapse of years, as valuable as it would be interesting, and it is to be regretted that circumstances should have tended in any degree to defeat this end.

The earliest record of the receipt of a copy-right by the Secretary of State bears date January 19, 1796, although copies of two works, one dated 1794, and the other 1795, are found in the library, of the receipt of which no record exists. From 1796 to 1831, during which period copy-rights were required to be transmitted directly to the Secretary of State by the author or proprietor,

the record of certificates of receipt is unbroken; and during the eleven years from 1831 to 1841, both inclusive, the register of works received at the Department of State from United States district courts, under the act of the former years, seems equally perfect. But here ceases all record or register at the Department of State of copy-rights received; and for a period of twenty years, from 1841 to 1860, when a register was commenced at this office, whither the service had been transferred, the only source available from which could now be compiled a complete catalogue of all the copy-rights entered during that period in the United States, are the lists and records, more or less perfect, transmitted more or less regularly by the clerks of the United States district courts, in accordance with the act.

From 1796 to 1831 the whole number of copy-right works actually received at the Department of State was 2,212, whilst the whole number for the same period received from the Department of State in 1859 at the Patent Office was but 929, or less than one-half. The whole number of copy-rights received at the State Department from 1831 to 1841, both inclusive, was 10,073, whilst the whole number received at the Patent Office in 1859 was 6,017. The whole number received at the State Department from 1841 to 1859, both exclusive, is estimated in round numbers at 40,000, whilst the whole number received for the same period at the Patent Office did not exceed 30,000.

Out of some 50,000 copy-right works, therefore, deposited in accordance with law, to be preserved, from 1790 to 1859, less than 40,000 are now to be found. It appears, also, from careful comparison of the records of applications for copy-right with the list of works received for a series of years, that not more than two-thirds of all the works for which a copy-right is requested are ever deposited with the clerks of the district courts of the United States, as is required by the act of 1831, or, if so deposited, are ever transmitted by the clerks to this city, as is also required.

The evil resulting from the continuance of such a state of things is too obvious to demand comment. It is easy to suppose a case in which the absence of copy-right work from the place where the law requires it to be found, when called for as a legal voucher, might prove extremely detrimental to the interests of its proprietor, especially when it is considered that judicial decisions hold that proof of the fulfilment of the act in the minutest particular is indispensable to the security of the right.

The copy-right works now received at this office are carefully registered and preserved, and this done at an annual expense of more than \$1,600. That this service may be rendered self-sustaining, like the Patent Office, can be readily demonstrated, and thus a saving of the above-named amount be made to the treasury.

At the Stationers' Hall, in London, all applications for copy-rights in England are made; from thence all certificates on the subject are issued, and there all works are received for preservation. The same service could be performed at the Patent Office for the United States, and be sustained by the same amount of fees now allowed clerks of the United States district courts by the act of 1831.

Under the existing law, the perfecting of a copy-right is made dependent on the performance of certain duties by district clerks of the United States, no penalty being prescribed for neglect of those duties. These officials are not subject by any law to the directions of the department or office charged with the superintendence of the service. Hence, with perfect impunity, a clerk in one of the districts has for eight years refused to transmit either records or copy-rights to this office, in obedience to the law, on plea of insufficiency of compensation. Other clerks are equally negligent of their duties. The present system has utterly failed to secure the object contemplated by the original enactment, and so valuable to those authors who desire protection for their works. Had

the plan now suggested been carried out with the same fidelity as has been the Patent Office, we would now have a copy of almost every book, pamphlet, map, chart, and musical composition ever published in this country. I need not enlarge upon the value of such a collection.

It is a subject of congratulation, to which I am happy to refer in closing this report, that notwithstanding the occupation of the public mind with the paramount thought of defending the government, and the apparent diversion of so much activity from peaceful to military pursuits, the business of this office, so sensitive to any financial or industrial change, shows a vitality in the industrial arts of the country not to have been expected in time of war. Of the applications for patents made during the month of December last, arranged according to the classification of the office, there were, in the classes of—

Agricultural implements.....	63
Calorifics and photics.....	45
Chemical processes.....	40
Land conveyance and engineering.....	59
Fibrous and textile manufactures.....	9
Fine arts.....	24
Household furniture.....	31
Leather, harness, and wearing apparel.....	42
Lumber, stone, and clay.....	19
Philosophical and surgical instruments.....	22
Navigation.....	8
Steam and air engines, hydraulics, and pneumatics.....	35
Metallurgic manufactures.....	23
Fire-arms and implements of war.....	58

It appears by this statement that 420 were for inventions in the peaceful arts, and 58 only in implements of war. Although some of the former are adapted for military use, it would be safe to say that five-sixths are inventions connected with productive industry—a proof that the productive interests of the loyal States have not been materially disturbed by the national convulsion.

As the power to maintain war depends upon the productive labor of the country, and the capacity of production is increased by new inventions, it is hoped that Congress will regard the encouragement of an institution which stimulates and protects the inventive resources of the country as not simply a duty, but a national necessity.

D. P. HOLLOWAY,
Commissioner of Patents.

Hon. GALUSHA A. GROW,
Speaker of the House of Representatives.

ALPHABETICAL LIST OF PERSONS WHOSE PATENTS FOR INVENTIONS AND DISCOVERIES HAVE EXPIRED DURING THE YEAR 1861.

No.	Patentee.	Invention or discovery.	Date.	Class.
5350	Abels, J. M.	Water wheels	Oct. 30, 1847	XI.
5102	Ahrens, Adolph F.	Casters, ball	May 8, 1847	II.
4995	Albert, Emanuel	Ploughs	Mar. 6, 1847	I.
5299	Albro, James, jr.	Printing oil-cloth carpeting	Sept. 18, 1847	XVIII.
5105	Aldrich, Asahel	Syphons for elevating water, &c.	May 8, 1847	XI.
5025	Allen, Horatio	Valves, cut-off	Mar. 20, 1847	VI.
5357	Allen, Thomas W., and Charles W. Noyes	Stuffing boxes	Nov. 6, 1847	VI.
1472	Allen, Samuel S.	Hulling, husking, and shelling corn	Jan. 15, 1840	I.
5323	Ames, Horatio	Iron, machinery for twisting and rolling	Oct. 9, 1847; in England July 29, '47	II.
5087	Andrews, Manassah	Bit stocks	April 24, 1847	XIV.
1882	Andrews, Solomon	Padlocks for mail bags, &c	Dec. 5, 1840	II.
5215	Anthony, David	Horse-powers	Aug. 7, 1847	XIII.
5329	Anthony, David	Threshing machines	Aug. 7, 1847	I.
5339	Antognini, Bernard	Cooking apparatus	Aug. 14, 1847	V.
4963	Armstrong, James, and Hardy Herring	Water wheels	Feb. 9, 1847	XI.
4994	Austin, Arnold R., assignor to S. D. Glines	Cloth, machinery for folding and measuring	Mar. 6, 1847	III.
2134	Austin, Frederick J.	Machinery for cutting paper and trimming books	June 16, 1841; antedated Dec. 4, '40	III.
5106	Avery, Ira	Wringing machines	May 8, 1847	XVII.
5308	Avery, Ira	Cars, propelling	Sept. 25, 1847	X.
5009	Avery, Zelotes W., assignor to B. Webb	Wrench, ratchet	Mar. 13, 1847	II.
5363	Babbitt, W. H.	Ploughs, hill-side	Nov. 6, 1847	I.
5307	Backus, Evens	Fire-places, parlor	Sept. 25, 1847	V.
4957	Bacon, Richard	Fuses for blasting, &c	Feb. 5, 1847	IX.
5504	Bacon, Lathrop S.	Stoves, cooking	April 11, 1848; antedated Oct. 11, '47	V.
4991	Bagley, Albert G.	Pens, forming metallic barrel, by drawing	Feb. 27, 1847	XVIII.
5437	Baker, William	Sash-fasteners	Feb. 8, 1848; antedated Aug. 8, '47	II.
1485	Baldwin, James	Loom shuttles for weaving cloth	Jan. 31, 1840	III.
4947	Ball, Daniel	Doors, apparatus for closing	Feb. 1, 1847	II.
5060	Ball, Daniel	Bedstead fastenings	April 10, 1847	XVII.
4981	Ball, Hosea	Dough, &c., mixing and breaking	Feb. 27, 1847	XVII.
5031	Bamborough, John	Wheat fans	Mar. 20, 1847	XIII.
5746	Baranowski, Jos. Jean	Calculating machines	Sept. 5, 1848; antedated Nov. 25, '47	VIII.
5143	Barber, Asa	Mills for grinding	June 5, 1847	XIII.
5129	Barber, S., assignor to James A. Stevens	Valves, operating cut-off	May 22, 1847	VI.
5137	Barley, Samuel	Threshing machines	June 5, 1847	I.
5278	Barr, William P., assignor to G. Bruce and P. C. Cortelyou	Type, casting	Sept. 4, 1847	II.
5348	Barratt, Jonathan F.	Horse-powers	Oct. 30, 1847	XIII.
5176	Bartlett, Albert G.	Trusses	June 26, 1847	XX.
5305	Bassett, John L.	Fasteners, window blind	Sept. 25, 1847	II.
5295	Battin, Joseph	Gas pipes, hydrostatic stops for	Sept. 18, 1847	IV.
5300	Battin, Joseph	Gas regulators	Sept. 18, 1847	IV.
5136	Bayless, William H.	Distilling	May 29, 1847	IV.
5051	Beers, John D.	Valves of steam-engines	April 3, 1847	VI.
5250	Behel, Jacob	Winnowing machines	Aug. 21, 1847	I.
5208	Belter, John H.	Sawing arabesque chair backs, machinery for	July 31, 1847	XIV.

7558	Benionski, Bartholomew	Printing presses, cylinder	Aug. 13, 1850; antedated Oct. 14, '47.	XVIII.
5185	Benson, Benjamin S.	Steam-engines	July 10, 1847	VI.
5322	Berdan, Hiram	Grain and straw separators	Oct. 9, 1847	I.
5267	Bicknell, Robert M., and C. J. Abel	Brushes, scrubbing	Sept. 4, 1847	XVII.
5285	Bingham, James	Clasps, catches for	Sept. 11, 1847	XVIII.
5142	Black, James	Steam-engines, rotary	June 5, 1847	VI.
4937	Blanc, Jean	Farm sifters	Jan. 21, 1847	I.
5284	Blanchard, Isaac L.	Vessels, steering apparatus for	Sept. 11, 1847	VII.
4930	Blodgett, Henry	Baths, fountains for shower	Jan. 15, 1847	XX.
4914	Boardman, Chauncey, and J. A. Wells	Clocks	Jan. 1, 1847	VIII.
5352	Boardman, William, jr	Pumps, portable steam	Nov. 6, 1847	XI.
5260	Bosworth, Nathaniel, jr	Stoves, cooking	Aug. 28, 1847	V.
5270	Bower, Jacob H.	Kiln, construction of lime	Sept. 4, 1847	XV.
5068	Boyden, U. A.	Water wheels, &c., hanging shafts of	April 17, 1847	XI.
5406	Brainard, W. G.	Fences	Dec. 28, 1847	IX.
4958	Brannan, Robert	Paints, composition for	Feb. 5, 1847	IV.
5390	Briggs, Cornelius	Tables, sofa	Dec. 11, 1847	XVII.
5565	Briggs, Henry F.	Shoulder braces	May 16, 1848; antedated Nov. 16, '47.	XX.
5326	Broadmeadow, Simeon	Furnaces for the manufacture of steel	Oct. 9, 1847	II.
11404	Brown, Thomas	Cables, arrangement for working and stopping	July 25, 1854; antedated Apr. 20, '47.	VII.
5408	Brown, Andrew D.	Saddles, harness	Dec. 28, 1847	XVI.
5344	Brown, David	Ship-building	Oct. 30, 1847	VII.
5132	Brown, J. M. & B. B.	Rake, hay and grain	May 29, 1847	I.
5336	Brown, John	Sawing hand-rails for stairs	Oct. 23, 1847	XIV.
5053	Brown, Reed B.	Sawing machines, cross-cut	April 10, 1847	XIV.
5309	Bryant, Walter	Furnaces, hot-air	Sept. 25, 1847	V.
5166	Buell, Abel B.	Harness buckles	June 19, 1847	XVI.
5343	Bulfinch, Arnold and David	Engines, rotary	Oct. 30, 1847	VI.
1585	Bulkeley, Ralph	Life-preserver	May 8, 1840	VII.
5197	Bullock, Jesse, jr., and Sewall Benson	Apples, machines for paring	July 24, 1847	XVII.
1890	Burden, Henry	Puddle balls, &c., rolling in manufacture of iron	Dec. 10, 1840	II.
5194	Bussey, William C.	Cars, couplings for	July 17, 1847	X.
5163	Butterfield, George	Spark-arresters	June 19, 1847	VI.
5038	Byram, Noah C.	Twine stands	Mar. 27, 1847	XXII.
5334	Caldwell, Andrew	Planing machines, cutter-heads for	Oct. 16, 1847	XIV.
5240	Calvert, Francis A.	Burring machines, guard cylinders for	Aug. 14, 1847	III.
5198	Cannon, David, and H. S. Lucas	Bricks, composition for fire	July 24, 1847	XV.
5204	Cantelo, William J.	Incubation, artificial	July 24, 1847	XXII.
5119	Carlisle, Charles	Rake, horse	May 15, 1847	I.
4915	Carter, Francis	Uterine, supporters	Jan. 1, 1847	XX.
5097	Cate, Ebenezer	Window-blinds	May 1, 1847	IX.
5108	Cate, Ebenezer	Window-blinds	May 8, 1847	IX.
4979	Chaffant, Reuben	Corn shellers	Feb. 27, 1847	XIII.
5393	Chamberlin, E. K.	Clubfoot, apparatus for	Dec. 11, 1847	XX.
5057	Chambers, Benjamin, assignor to Joanna Chambers	Padlocks	April 10, 1847	II.
5155	Chambers, Benjamin	Engraving bank notes	June 12, 1847	XVIII.
5359	Chase, S. L.	Locks and keys, combination	Nov. 6, 1847	II.
5328	Cheney, Frank	Thread, machinery for doubling, twisting, and reeling	Oct. 9, 1847	III.
4985	Chevet, A. M. F.	Sugar, manufacture of	Feb. 27, 1847	IV.
5276	Chevet, A. M. F.	Sugar-making	Sept. 4, 1847	IV.
4969	Church, D. A., L. H. Obert, and W. W. & O. F. Willoughby.	Thrashing machine	Feb. 13, 1847	I.
5228	Church, D. A., L. H. Obert, and W. W. & O. F. Willoughby.	Harvesting machines	Aug. 7, 1847	I.

Persons whose patents for inventions have expired.

No.	Patentee.	Invention or discovery.	Date.	Class.
5039	Clark, John	Steam-engine	Mar. 27, 1847	VI.
6446	Coad, Richard, assignor to Samuel G. Fisher	Combustion of fuel	May 8, 1849; antedated Nov. 25, '47.	V.
4948	Coburn, Moses	Piano-fortes, combining metallic reeds with	Feb. 1, 1847	XVIII.
5394	Cochran, John W.	Sawing warped and curved surfaces, mills for.	Dec. 11, 1847	XIV.
5096	Colby, Hall	Compasses, mariner's	May 1, 1847	VIII.
5318	Collins, Richard	Looms	Oct. 2, 1847	III.
5156	Collyer, Peter	Fruit-gatherers	June 12, 1847	I.
5376	Comings, Robert	Bog-cutters	Nov. 20, 1847	I.
5184	Conger, James B.	Water wheels	July 10, 1847	XI.
4974	Conklin, James H.	Stove, cooking	Feb. 20, 1847	V.
4980	Conklin, James H.	Ploughs	Feb. 27, 1847	I.
5131	Cooke, William S.	Iron ores, reduction of.	May 29, 1847	II.
5191	Cornell, William E., and C. W. Brown.	Gearing for connecting feed and pressure rollers.	July 17, 1847	XIII.
5210	Coston, Benjamin F.	Gas, apparatus for the manufacture of	July 26, 1847	IV.
5145	Cowling, Willis W.	Ice, machinery for raising, from ponds, &c.	June 5, 1847	XXII.
5125	Crafts, Ashley	Stove, cooking	May 22, 1847	V.
5237	Craggs, Richard, and O. Reynolds	Planting machines.	Aug. 14, 1847	I.
1973	Crane, Aaron D.	Clocks	Feb. 11, 1841; antedated Dec. 22, '40.	VIII.
5356	Creutzfeldt, William	Chimney caps	Nov. 6, 1847	V.
5340	Crichton, Winfield	Plough, cotton thinning	Oct. 23, 1847	I.
4925	Crossett, Isaac	Staves, knives for cutting	Jan. 13, 1847	XIV.
5409	Crosse, Andrew	Liquids, purifying, by galvanism	Jan. 6, 1848; antedated Mar. 2, '47.	IV.
5114	Culver, David	Furnaces, air-heating	May 15, 1847	V.
4997	Cumberland, John	Planing and reducing boards, machines for	Mar. 6, 1847	XIV.
5222	Cundell, William	Burring machines, wool	Aug. 7, 1847	III.
5385	Curnutt, Reuben	Rods, pitmans, &c., connecting	Dec. 4, 1847	VI.
5190	Curtis, Philo C.	Steam-engine, rotary	July 10, 1847	VI.
5163	Cutting, James A., and George Butterfield	Spark-arresters	June 19, 1847	VI.
1813	Daniels, Reuben	Cloth, &c., machine for reducing worn-out	Oct. 10, 1840	III.
5192	Davis, W. M.	Gear changing	July 17, 1847	XIII.
4996	Davy, John T.	Stoves, coal	Mar. 6, 1847	V.
5324	Davy, John T.	Stoves, cooking	Oct. 9, 1847	V.
5065	Dezen, Francis	Hat brims, apparatus for forming	April 17, 1847	XXI.
5067	Devall, Augustus	Presses, cotton	April 17, 1847	XIII.
5378	Dodge, George H.	Spinning machinery	Nov. 27, 1847; antedated Sept. 27, '47.	III.
5283	Donlevy, John	Presses, lithographic	Sept. 11, 1847; antedated Mar. 11, '47.	XII.
5050	Dozier, Edmund L.	Threshing machines	April 3, 1847	I.
5174	Dunlap, John	Harvesting machines	June 26, 1847	I.
5539	Durant, Charles F.	Gutta percha and caoutchouc, dissolving and softening	April 25, 1848; antedated Oct. 25, '47.	IV.
4960	Eames, Albert	Cannon, wrought iron	Feb. 5, 1847	XIX.
5024	Eddy, Wilson, assignor to S. Morris	Cylinders, steam	Mar. 20, 1847	VI.
5159	Elgar, John	Cutting corn fodder, machines for	June 19, 1847	I.
5272	Ellsworth, H. G.	Carding machines, feed rollers for	Sept. 4, 1847	III.
5069	Ely, William F.	India-rubber, preparing	April 17, 1847	IV.
5182	Emerson, Frederick	Ventilators	July 3, 1847	XI.

5183 Emerson, Frederick
5165 England, Lewis C.
5085 Evans, John, and J. H. Thompson
5252 Everts, James M.
5219 Everett, Horace
5342 Faho, S., and A. H. Lochman
4990 Fairchild, R. & S.
1692 Fairman, Simon
5047 Farman, D. L.
5035 Fellows, John H.
5268 Fellows, John H.
5370 Fernald, H. B.
5266 Fisher, Amory
5161 Fleischman, Charles L.
5275 Fleischman, Charles L.
5034 Forwood, Alfred W.
4916 Foster, Clinton
5039 Galvani, C., assignor to John Clark
5332 Gardiner, Charles
5007 Gardiner, P. G.
5098 Gardiner, P. G.
5070 Gardiner, P. G.
4919 Garmo, W. De, assignor to W. S. Ellison
5297 Gassaway, Samuel F.
5052 Gatchel, Joshua L.
5973 Gatling, Richard J.
5130 Gatling, Richard J.
5316 Gibbs, Lucius H.
5123 Gibson, Samuel
5196 Gilbert, Charles J., and G. Gay
5202 Gilbert, Timothy
5216 Gilbert, Timothy
5000 Gold, Stephen J.
5026 Grame, Henry H.
4950 Grannis, Charles W.
5178 Gregg, Mahlon
5259 Gregory, Alva
5017 Greig, John S.
4967 Grenell, Thomas
5396 Grimsley, Thornton
5375 Haggart, James
5128 Hall, Alfred
5381 Hall, Elias
5355 Hall, Joseph
5304 Halvorson, Halvor, assignor to Timothy Earle
4987 Halvorson, Halvor, assignor to Timothy Earle
4934 Hammond, Charles
5360 Harbuck, Frederick
5361 Harbuck, Frederick
4970 Harmon, J. W., assignor to H. B. Dunham
5257 Harris, E. M., and J. Cleghorn
5043 Harris, Walter
5374 Harrison, Edward

Ventilators
Tanning morocco
Gearing, changeable
Fasteners, window blind
Propellers for vessels
Bedstead fastening
Chisels
Lathe, chuck for
Pumps, valves and valve boxes for
Furnace grate bars
Vessels, construction of
Alarms for steam boilers
Mills for grinding corn in the cob
Cotton wadding
Mattresses, cushions, &c., making
Carriages
Harvesting machines
Steam-engine, rotary
Presses, cotton
Presses, steam
Wheels, railroad car
Saw mills
Whiffletrees, attaching traces to
Bridges
Hydraulic ram
Hemp brakes
Ploughs, shovel
Fire-arms
Spark-arresters
India-rubber fabrics
Piano-fortes, metallic frames for
Piano-forte actions
Propellers for vessels
Valves, cut-off
Ovens, heating elevated
Engines, rotary
Tires, mode of heating wheel
Pendulums, self-adjusting
Railroads, fastening rails on
Saddle-trees, dragoon
Fasteners, window sash
Brick presses
Press, self-acting cheese
Washing machines
Hides, preparing raw
Trusses
Hammers
Wheels, car
Wheels, car
Beaching rosin
Cotton thinners
Channels, finding the direction of streams for deepening
Mills for grinding

July 3, 1847
June 19, 1847
April 24, 1847
Aug. 21, 1847
Aug. 7, 1847
Oct. 30, 1847
Feb. 27, 1847
July 18, 1840
April 3, 1847
Mar. 27, 1847
Sept. 4, 1847
Nov. 13, 1847
Aug. 28, 1847
June 19, 1847
Sept. 4, 1847
Mar. 27, 1847
Jan. 1, 1847
Mar. 27, 1847
Oct. 16, 1847
Mar. 13, 1847; antedated Jan. 13, '47.
May 1, 1847
April 17, 1847
Jan. 1, 1847
Sept. 18, 1847
April 10, 1847
April 17, 1847
May 29, 1847
Oct. 2, 1847
May 22, 1847
July 17, 1847
July 24, 1847
Aug. 7, 1847
Mar. 6, 1847
Mar. 20, 1847
Feb. 1, 1847
June 26, 1847
Aug. 28, 1847
Mar. 13, 1847
Feb. 13, 1847
Dec. 11, 1847
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May 22, 1847
Dec. 4, 1847
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Sept. 25, 1847
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Jan. 19, 1847
Nov. 6, 1847
Nov. 6, 1847
Feb. 20, 1847
Aug. 21, 1847
Mar. 27, 1847
Nov. 20, 1847

XI.
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IX.
XIII.

Persons whose patents for inventions have expired.

No.	Patentee.	Invention or discovery.	Date.	Class.
5315	Harrison, John.....	Composition for door knobs, &c.....	Oct. 2, 1847.....	IV.
5110	Hartwell, Samuel E., and W. M. & De G. Fowler.....	Cigars, machinery for making.....	May 8, 1847.....	XXII.
5021	Haworth, James.....	Looms.....	Mar. 20, 1847.....	III.
5177	Haworth, Wade.....	Collars, machine for stuffing horse.....	June 26, 1847.....	XVI.
4924	Heaton, Alonzo.....	Metal, machinery for raising sheet.....	Jan. 13, 1847.....	II.
5354	Hemming, Richard.....	Cars, couplings for.....	Nov. 6, 1847.....	X.
5151	Hershey, Isaac S.....	Currying leather, composition for.....	June 12, 1847.....	XVI.
4944	Heygel, Joseph.....	Smut machines.....	Jan. 26, 1847.....	XIII.
5118	Hickok, William.....	Furnaces, air-heating.....	May 15, 1847.....	V.
5079	Hicks, L. E., assignor to J. S. Norton.....	Button machinery.....	April 24, 1847.....	XXI.
5186	Hill, William W.....	Blocks, ships.....	July 10, 1847.....	VII.
5164	Hill, U. C. & C. F.....	Musical instruments.....	June 19, 1847.....	XVII.
4943	Hillis, William D.....	Harness buckles.....	Jan. 26, 1847.....	XVI.
5377	Hobbs, Richard H.....	Bathing, heating water for.....	Nov. 27, 1847.....	XX.
5188	Hoe, Richard M.....	Printing presses.....	July 10, 1847.....	XVIII.
5200	Hoe, Richard M.....	Printing presses.....	July 24, 1847.....	XVIII.
5212	Hoe, Richard M.....	Printing presses, inking apparatus for.....	July 31, 1847.....	XVIII.
4978	Hoffman, L. G.....	Incubation, artificial.....	Feb. 20, 1847.....	XXII.
5286	Hoit, Moses F.....	Pen, fountain.....	Sept. 11, 1847.....	XVIII.
5010	Holcomb, P. P.....	Hemp brakes.....	Mar. 13, 1847.....	III.
4918	Holmes, Ira.....	Wheels, carriage.....	Jan. 1, 1847.....	X.
5033	Holmes, Lawrence.....	Loom, jacquard.....	Mar. 27, 1847.....	III.
5359	Hood, John W.....	Abdominal supporters.....	Dec. 11, 1847.....	XX.
4961	Horner, Elijah.....	Oil, obtaining, from flaxseed.....	Feb. 9, 1847.....	IV.
5231	Horst, Charles.....	Chair, combining, rocking, and fan.....	Aug. 7, 1847; antedated Feb. 9, '47.....	XVII.
5293	Horton, George H., and L. Armstrong.....	Hinges, machinery for manufacturing.....	Sept. 11, 1847.....	II.
5398	Hovey, William.....	Knives, machinery for grinding, which have warped surfaces.....	Dec. 18, 1847.....	II.
5160	Hoyt, Joel L.....	Harness, shaft tugs for.....	June 19, 1847.....	XVI.
5407	Hubbard, Thomas J.....	Fences.....	Dec. 38, 1847.....	IX.
4927	Hunt, Walter.....	Pens, fountain.....	Jan. 13, 1847.....	XVIII.
6663	Hunt, Walter, assignor to George A. Arrowsmith.....	Combined piston breech, and firing cock repeating gun.....	Aug. 21, 1849; antedated Dec. 10, '47.....	XXI.
5015	Ingalls, Moses.....	Reciprocating and lateral motions, mode of producing.....	Mar. 13, 1847.....	XIV.
4936	Ingle, Joseph W.....	Morising machine.....	Jan. 21, 1847.....	XIV.
4926	Ingram, James, and James Stewart.....	Water-closets.....	Jan. 13, 1847.....	XXII.
5005	Jenkins, Henry.....	Wire grating, weaving.....	Mar. 6, 1847.....	II.
4935	Jennings, Isaiah.....	Lamps.....	Jan. 19, 1847.....	V.
5246	Jennison, W. H., assignor to William Kumbel.....	Riveting leather bands.....	Aug. 14, 1847.....	II.
5256	Johnson, Job.....	Fish hooks.....	Aug. 21, 1847.....	XXII.
5011	Johnson, Jonathan.....	Boring machines.....	Mar. 13, 1847.....	XIV.
4942	Jones, Alfred C.....	Presses, steam.....	Jan. 26, 1847.....	XII.
5301	Jones, Alfred C.....	Metals, portable machinery for planing.....	Sept. 18, 1847.....	II.
5263	Jones, John.....	Curry combs.....	Aug. 28, 1847.....	II.
5279	Judd, Morton.....	Fasteners, sash.....	Sept. 4, 1847.....	II.
5066	Judd, Oliver.....	Hinges for doors, &c.....	April 17, 1847.....	II.
5002	Kane, G. K.....	Wheels, car.....	Mar. 6, 1847.....	X.

5287	Kelsey, John B.	Chimneys, construction of	Sept. 11, 1847	V.
5401	Ketclium, G.	Pumps for raising water	Dec. 18, 1847	XI.
4949	King, H. H.	Baths, shower	Feb. 1, 1847	XX.
5397	Kingsbury, C. B. & J.	Presses, self-acting cheese	Dec. 18, 1847	XII.
5225	Kinsley, Rodolphus	Latches	Aug. 7, 1847	II.
5045	Kirk, Charles	Clocks	April 3, 1847	VIII.
5040	Kirk, Lewis	Saw, steam cross-cut	Mar. 27, 1847	XIV.
5044	Kirk, Lewis	Trip hammers, steam	April 3, 1847	II.
5325	Kirk, Lewis	Pipes, jointed, for steam, &c.	Oct. 9, 1847	VI.
5333	Kirk, Lewis, and John Dodsworth	Compounds, lubricating	Oct. 16, 1847	IV.
4968	Knapp, Cyrus	Spiral elevators	Feb. 13, 1847	XX.
5193	Knight, Ebenezer	Vessels, ventilating the timbers of	July 17, 1847	VII.
1 851	Krupp, Alfred	Cannon, improvement in	Nov. 27, 1855; antedated Dec. 16, '47	XIX.
5059	Kunsman, Jacob	Saw mills, feeding	April 10, 1847	XIV.
5230	Lamb, William	Water wheels	Aug. 7, 1847	XI.
5100	Latourandais, J. H.	Bedstead for invalids	May 1, 1847	XVII.
6301	Laubereau, Francis Joseph	Engine, air	April 10, 1849; antedated Oct. 30, '47	XI.
5221	Laughlin, John	Whiffletrees	Aug. 7, 1847	X.
5159	Leavens, Jesse	Sash machinery	June 12, 1847	IX.
5294	Levett, M., and H. Davis	Teeth, coloring the plates of artificial	Sept. 18, 1847	XX.
4965	Lewis, John, assignor to E. C. Read and B. M. Sherman	Pneumatic springs	Feb. 10, 1847	XI.
4939	Lewis, Samuel H.	Filtering stop-cock	Jan. 26, 1847	I.
5169	Lewis, William	Straw-cutters	June 19, 1847	XI.
5111	Leyboldt, Frederick	Scarificators	May 15, 1847	XX.
5063	Livernore, Benjamin, and N. F. English	Boot lasting, machines for	April 17, 1847	XVI.
4999	Livingston, Robert M.	Cotton, machinery for cleaning	Mar. 6, 1847	III.
5366	Long, Stephen H.	Bridges, composite	Nov. 13, 1847	IX.
5086	Loud, Thomas	Piano-forte actions	April 24, 1847	XVIII.
5330	Luxton, Charles	Swings	Oct. 16, 1847	XX.
4951	Lyon, Lemuel	Hat bodies, manufacture of	Feb. 5, 1847	XXI.
5345	Mackrell, William H.	Knobs, fastening door	Oct. 30, 1847	II.
5296	Macgregor, James, jr.	Stoves, cooking	Sept. 18, 1847	V.
5341	MacLean, Hugh	Drawing heads, regulating the spread of	Oct. 23, 1847	III.
5302	Magoun, Joseph, assignor to New England Glass Company	Glass, moulding and pressing	Sept. 25, 1847	XV.
5303	Magoun, Joseph, assignor to New England Glass Company	Glass, moulds for pressing	Sept. 25, 1847	XV.
5109	Mansfield, Warren, and H. L. Thistle	Linch-pins and washers	May 8, 1847	X.
5095	Many, William V.	Wheels, cast-iron car	May 1, 1847	X.
5014	Maril, John S., and W. J. Ogden	Stoves	Mar. 13, 1847	V.
5004	Martin, Norris L.	Turpentine, refining	Mar. 13, 1847	IV.
5374	Mason, George L.	Wool and cotton, preparing for carding	Sept. 4, 1847	III.
1920	Mathews, David	Spark-arrester	Dec. 31, 1840	VI.
5572	Matthewson, E. C.	Doors, weather strips for	May 16, 1848; antedated Nov. 16, '47	IX.
4998	Maxon, John	Carriage bodies, hanging	Mar. 6, 1847	X.
5327	McAdams, William	Book covers, ornamenting	Oct. 9, 1847	XVIII.
5405	McCarthy, E. J.	Paddle wheels	Dec. 28, 1847	VII.
1675	McCarthy, Fones	Gin, cotton	July 3, 1840	III.
5074	McConnell, Joseph	Mill spindles, drivers for	April 17, 1847	XIII.
5173	McCune, John	Tennon, cutting on the ends of spokes	June 26, 1847	XIV.
6329	McEvoy, Henry, assignor to W. Benjamin, jr.	Hooks and eyes	April 17, 1849; antedated May 27, '47	XXI.
5214	McLaughlin, Thomas G.	Engines, hydraulic	Aug. 7, 1847	XI.
5624	McLean, William S.	Fastenings for window sashes	June 13, 1848; antedated Dec. 13, '47	II.
5235	Mead, Mary A., executrix of James Mead, deceased	Pressing and packing cotton	Aug. 14, 1847	XII.
5206	Merrill, E. H. & C. J.	Bottles, &c., making of clay	July 31, 1847	XV.

Persons whose patents for inventions have expired.

No.	Patentee.	Invention or discovery.	Date.	Class.
5313	Miller, William	Fences for preventing injury by flood	Oct. 9, 1847	IX.
5209	Miner, Leman C.	Tuyeres	July 31, 1847	II.
4966	Molnier, T.	Barrel machinery	Feb. 10, 1847	XIV.
4921	Montgomery, James	Spark-arresters	Jan. 7, 1847	VI.
5224	Montgomery, James	Propellers, screw	Aug. 7, 1847	VII.
1714	Montgomery, Richard, and Lewis W. Harris	Bark mill, breaking and grinding	Aug. 12, 1840	XIII.
5089	Morehouse, Bethuel, and William W. Willard	Stoves, cooking	May 1, 1847	V.
5116	Morgan, Amos	Drilling machines	May 15, 1847	IX.
1647	Morse, Samuel F. B.	Signals by electro magnetism	June 20, 1840	IX.
5365	Morton, W. T. G., and A. A. Gould	Inhaling ether, &c., apparatus for	Nov. 13, 1847	XX.
5317	Mott, Jordan L.	Chairs, cast iron	Oct. 2, 1847	XVII.
1873	Mott, Jordan L.	Caldron and furnace combined	Dec. 1, 1840	V.
5117	Moyer, J. W.	Bedstead fastenings	May 15, 1847	XVII.
5955	Myers, Eckert	Carriages, detaching horses from	April 10, 1847	X.
5140	Napier, James	Ores, process of reducing copper	June 5, 1847	II.
5387	Nash, Harvy B.	Bedstead fastenings	Dec. 4, 1847	XVII.
5036	Newton, Alfred, L. B. Smith, and E. Sandford	Augers	Mar. 27, 1847	XIV.
5349	Newton, Dennis	Washing machines	Oct. 30, 1847	XVII.
5379	Nield, James	Looms for weaving	Nov. 27, 1847	III.
5141	North, Henry S.	Fire-arms	June 5, 1847	XIX.
5280	Obenchain, M. W.	Spinning, machinery for	Sept. 11, 1847	III.
5195	Odell, Alanson T.	Cultivators	July 17, 1847	I.
5373	Olcott, Adrian	Mattresses, machinery for preparing husks for	Nov. 20, 1847	XVII.
5027	Old, James	Boxes for journals	Mar. 20, 1847	XIII.
5071	Page, George	Pumps, &c., pistons for	April 17, 1847	XI.
5218	Page, George	Ploughs	Aug. 7, 1847	I.
5101	Pagin, John	Discharging grains, &c., from vessels, apparatus for	May 8, 1847	XXII.
5201	Parker, Emanuel	Water wheels	July 24, 1847	XI.
6062	Parkes, Alexander	Ores, reduction of	Jan. 30, 1849; antedated Nov. 18, '47	II.
5282	Parkhurst, Ziba	Burring machines	Sept. 11, 1847; antedated Mar. 11, '47	III.
4917	Parkins, Nathan, assignor to J. J. Parkins	Excavators, for roads, &c.	Jan. 1, 1847	IX.
5205	Parsey, Arthur	Engines, condensed air	July 31, 1847	XI.
5223	Parsons, Horace	Water wheels	Aug. 7, 1847	XI.
5075	Paterson, John	Cultivators	April 17, 1847	I.
4952	Patterson, A. W.	Trusses	Feb. 5, 1847	XX.
5310	Peake, Henry T.	Valves, operating cut-off	Sept. 25, 1847	VI.
5314	Pease, Daniel, jr.	Snut machines	Oct. 2, 1847	XIII.
5243	Pease, Julius A.	Door-plates, casting	Aug. 14, 1847	II.
5058	Peck, Thomas	Doors, devices for closing	April 10, 1847	II.
5124	Peck, Thomas	Door springs	May 22, 1847	II.
5298	Peiroe, Joseph	Mills, grinding	Sept. 18, 1847	XIII.
5255	Pendleton, Stanton	Fish hooks	Aug. 21, 1847	XXII.
5277	Philip, George A.	Grates, stove	Sept. 4, 1847	V.
5248	Pierce, Samuel	Ranges, cooking	Aug. 28, 1847	V.
5134	Pinney, A. H.	Staves, machinery for jointing	May 29, 1847	XIV.

5392 Pitcher, Leman B.
5382 Pollock, George.
4959 Pope, Charles, and K. Frazier.
5088 Potter, Lorenzo.
5391 Potter, Nathaniel P.
5307 Potts, Ezekiel.
5170 Preston, C. H.
4928 Prouty, Lorenzo, executor of D. Prouty, deceased.
4977 Ralston, Andrew.
5077 Ransom, Franklin, and D. L. Farnham.
5364 Read, Philip P.
5402 Rector, Jno. H.
4940 Reed, Jesse.
5242 Reed, Jesse.
4964 Reeder, Ralph.
4922 Remington, Jno. R.
4929 Remington, Jno. R., and Robert Beale.
5211 Reynolds, Oliver.
5241 Rice, Ebenezer M.
5133 Riley, George.
5251 Roberts, Chas. W., and Jno. Hamby.
5226 Robertson, John.
4945 Roebling, Jno. A.
4946 Rowe, James.
1560 Rowe, James.
5147 Rowland, Joseph.
5107 Royce, John S.
5115 Russell, Albert, and E. R. Walker.
4956 Sampson, Frederick D.
5018 Sargent, Chas. G.
5321 Savage, John Y.
5386 Sawyer, Nathan.
1623 Sawyer, Samuel.
6900 Schoffern, John.
5844 Schofield, J., assignor to J. Betts.
5213 Seabury, Jacob, assignor to Daniel Griffin.
5367 Sellers, George E.
5082 Selpho, William.
5093 Severance, Augustus N.
5311 Sewell, Thomas.
5158 Sexton, Samuel B.
5139 Shelbarger, B. F.
5138 Shelbarger, B. F.
4941 Sheldon, Job.
5351 Shepard, Charles J.
5162 Shermer, Anthony.
5244 Shive, Simon C.
5255 Shreve, Samuel.
5269 Shugert, John.
5312 Simpson, Wm., and Horace Adams.
4923 Simril, Miles G.
5076 Sizer, Geo. W., and Henry.
5084 Skiff, Frederick.

Regulators for machinery.
Furnaces, registers for.
Saddles, harness.
Presses for cotton, hay, &c.
Grain, kilns for drying.
Cutting and grinding corn stalks, machine for.
Bricks, forming.
Ploughs.
Railroad switches, operating.
Engines, fire.
Shoe, horse, machine.
Rifles, nuzzles for.
Vessels, steering apparatus for.
Steering apparatus.
Compasses, mariners' time.
Coffee-roasters.
Slitting boards, &c.
Bee hives.
Shafts, coupling line.
Distilling.
Dyewoods, machinery for rasping.
Lead, machinery for making sheet.
Bridges, apparatus for passing suspension wires across rivers, &c., for.
Wheels, carriage.
Mill, crushing hard substances.
Boats, fenders for canal.
Carriages.
Window glasses, ship's.
Straw-cutters.
Wool, machinery for combing.
Locks, chronometric.
Brick presses.
Corks, cutting.
Sugar, manufacture of.
Supporters, uterine.
Furnaces, boiler.
Planes, machinery for ascending and descending inclined.
Hat tips, machinery for pulling out.
Cheese shelves.
Lamps, lard.
Stoves, air-tight.
Candles, making.
Skates.
Planing machines.
Stoves, boiler plates of cooking.
Vessels, steering apparatus for.
Boot patterns.
Stoves, cooking.
Soap, manufacture of.
Water wheels.
Tailors' measurers.
Wheels, car.
Coffins.

Dec. 11, 1847.
Dec. 4, 1847.
Feb. 5, 1847.
April 24, 1847.
Dec. 11, 1847.
July 31, 1847.
July 19, 1847.
Jan. 13, 1847.
Feb. 20, 1847.
April 17, 1847.
Nov. 13, 1847.
Dec. 18, 1847.
Jan. 26, 1847.
Aug. 14, 1847.
Feb. 9, 1847.
Jan. 7, 1847.
Jan. 15, 1847.
July 31, 1847.
Aug. 14, 1847.
May 29, 1847.
Aug. 21, 1847.
Aug. 7, 1847.
Jan. 26, 1847.
Jan. 26, 1847.
April 24, 1840.
June 5, 1847.
May 8, 1847; antedated Feb. 5, '47.
May 15, 1847.
Feb. 5, 1847.
Mar. 13, 1847.
Oct. 9, 1847.
Dec. 4, 1847.
June 10, 1840.
Nov. 27, 1849; antedated Dec. 8, '47.
Oct. 10, 1848; antedated May 19, '47.
July 31, 1847.
Nov. 13, 1847.
April 24, 1847.
May 1, 1847.
Oct. 2, 1847.
June 19, 1847.
June 5, 1847.
June 5, 1847.
Jan. 26, 1847.
Oct. 30, 1847.
June 19, 1847.
Aug. 14, 1847.
Aug. 28, 1847.
Sept. 4, 1847; antedated Mar. 4, '47.
Oct. 2, 1847.
Jan. 7, 1847.
April 17, 1847.
April 20, 1847.

XIII.
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XXI.
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Persons whose patents for inventions have expired.

No.	Patentee.	Invention or discovery.	Date.	Class.
5167	Smith, Addison	Cloth, &c, measuring	June 19, 1847	III.
5372	Smith, C. A.	Percolating apparatus	Nov. 20, 1847	IV.
5113	Smith, Garretson, and Henry Brown	Stoves, flue-plates of	May 15, 1847	V.
5217	Smith, Jonathan	Withes, machinery for twisting	Aug. 7, 1847	XXII.
5083	Smith, Lester	Tin ware, setting down machines for the manufacture of	April 24, 1847	II.
5135	Smith, Riley	Presses, cotton	May 29, 1847	XII.
5320	Smith, R. F.	Turpentine, distilling	Oct. 2, 1847	IV.
1753	Spafford, George	Rags, boiling and washing	Sept. 2, 1840	III.
4989	Speed, John	Carriage bodies, hanging	Feb. 27, 1847	X.
5290	Spofford, Moses	Hoing land, machines for	Sept. 11, 1847	I.
5238	Stafford, James R.	Gram, flour, &c., apparatus for drying	Aug. 14, 1847	I.
5488	Stafford, James R.	Stoves, cooking	Mar. 28, 1848; antedated Sept. 28, '47	V.
5291	Stafford, John M.	Rakes, horse	Sept. 11, 1847	I.
4984	Stanton, Henry	Carriages, &c., buoyant	Feb. 27, 1847	X.
5234	Stanton, Henry	Lighters for vessels	Aug. 14, 1847	VII.
5510	Stebbins, Lucius	Brakes for cars, operating	April 18, 1848; antedated Oct. 18, '47.	XI.
1510	Stebbins, Lucius	Coloring maps, mode of	Mar. 19, 1840	XVIII.
5061	Stevens, Richard F.	Doors, devices for closing	April 10, 1847	II.
5078	Stewart, James	Fastening window blinds	April 24, 1847	II.
5091	Stewart, Matthew	Roofing	May 1, 1847	IX.
5022	Stillman, Alfred	Boilers, apparatus for indicating the height of water in, by the use of fusible alloy.	Mar. 20, 1847	VI.
5220	Stone, Chester	Presses, self-acting cheese	Aug. 7, 1847	XII.
5264	Stoner, Christian	Brakes, apparatus for operating carriage	Aug. 28, 1847	X.
5233	Story, Robert, and Thos. Hopper	Shoes, India-rubber	Aug. 7, 1847	XVI.
5337	Strange, Joseph W.	Roving, machinery for laying in cans	Oct. 23, 1847	III.
5347	Streeter, Samuel	Railroad tracks, machinery for cleaning snow and ice from	Oct. 30, 1847	IX.
5037	Strode, Joseph C.	Hydraulic ram	Mar. 27, 1847	XI.
5181	Stuart, George	Teeth, springs for artificial	July 3, 1847	XX.
4988	Sullivan, Jonathan, assignor to R. K. Smith	Gold, separating, from impurities	Feb. 27, 1847	II.
5400	Swan, Lansing B.	Telegraphs, galvanic batteries for	Dec. 18, 1847	VIII.
4933	Swift, Lewis	Rake, horse	Jan. 19, 1847	I.
5046	Taber, Wm. D.	Pumps, arranging valves, &c., for	April 3, 1847	XI.
5019	Tassic, Madeline	Shirt bosoms	Mar. 13, 1847	XXI.
4962	Taylor, A. B., and H. A. Burr	Hat bodies, machinery for making	Feb. 9, 1847	XXI.
5029	Thatcher, George H.	Stoves, foot	Mar. 20, 1847	V.
5154	Thatcher, J. M.	Stoves, cooking	June 12, 1847	V.
5271	Thomas, James	India-rubber, preparing	Sept. 4, 1846	IV.
5042	Thomas, Elhanan W.	Ditching machine	Mar. 27, 1847	IX.
5734	Thompson, Henry G.	Engines, rotary steam	Aug. 22, 1848; antedated Mar. 10, '47.	VI.
5383	Tilghman, Richard A.	Salts, decomposing alkaline and other	Dec. 4, 1847; antedated Feb. 1, '47	IV.
5384	Tilghman, Richard A.	Salts, decomposing potash, feldspar, for obtaining certain	Dec. 4, 1847; antedated Feb. 1, '47.	IV.
5152	Tomlinson, Daniel, and H. S. Hopkins	Pire-alarms	June 13, 1847	V.
5346	Townsend, Edward S.	Wire rope, machinery for the manufacture of	Oct. 30, 1847	II.
5003	Traver, Philip C.	Cork, machinery for cutting	Mar. 6, 1847	XXII.

5388 Tuers, Joseph
5180 Tull, James, and Sept. Morris
5273 Tuttle, George W.
5329 Underwood, Henry
5091 Army, Jesse
5187 Ustic, Stephen
5016 Van Brocklin, John
4971 Van Loan, Wm. W.
5247 Van Riper, Abraham
5319 Van Riper, A. & G.
6929 Verdut, P. du Trembley
5023 Vickerstaff, Joseph
5349 Vogel, Kasimir
5203 Von Schmidt, A. W. & J. H.
5081 Wade, Robert M.
5262 Walker, Charles
5168 Walker, James
5149 Walker, Richard
5094 Walter, Elihu
5121 Walter, Lorenzo D., assignor to J. & D. S. Kellogg
5292 Warren, James, jr.
5092 Waterman, Nathaniel
5404 Watson, John
4975 Watt, Thomas
4953 Webber, E., and N. O. Mitchell
5146 Wesson, Edwin
5338 Wheeler, William
1839 Whipple, Milton D.
5258 Whiteside, P.
5126 Whitney, Asa
5127 Whitney, Asa
5289 Whitney, A. W.
5132 Whitworth, Joseph
5358 Wightman, P. T., and H. Vaughn
5362 Wilson, Joseph B.
5056 Wimans, Ross
5175 Wimans, Ross
1868 Wimans, Ross
5369 Wind, John
5660 Winslow, John F., and John Snider
5245 Wood, F. W.
5064 Woodroth, Bennett
4993 Woodman, E. G.
5281 Woolson, Charles J.
5380 Wooster, Curtis
4972 Worthington, H. R., and W. H. Baker
5122 Wratten, James E.
5041 Wright, Lemuel W.
5061 Wright, Wendell
5353 Younger, Wm.
5288 Zieber, Philip, John Hancock, and P. S. Devlan

Boats for sailing
Boxes for railroad car axles
Exercising children, machines for
Leather, tap cutting and levelling
Horse powers
Brick moulding machine
Ploughs, clevis for
Fire-escape
Baskets
Baskets, splint machines for
Engines, vapor condensers and stuffing boxes of
Looms, stocking
Weavers' harness, machinery for making
Pumps, centrifugal
Spark-arresters
Mills for grinding mustard, &c.
Ploughs
Files, machinery for cutting
Stoves, cooking
Drills for dentists
Lemonade, preparing materials for
Gridirons
Filters, cleaning
Tailors' measures
Treenails, machinery for turning
Fire-arms
Bolts for doors
Wool, cleaning from burrs, &c., and ginning cotton
Stoves, cooking
Wheels, cast-iron car
Wheels, cast iron car
Iron, &c., machinery for working sheet
Knitting, machinery for
Drilling rock, machinery for
Ice-cutters
Steam, using exhaust, for increasing draught in smoke pipes
Cars for transportation of coal, &c.
Steam-engine locomotive regulating waste steam
Cotton-cleaners
Pudders balls, machinery for rolling
Rivets for leather bands
Printing calico
Cloth, machinery for measuring and folding
Cartidge bodies, hanging
Gauges, used in finishing spiral hand rails
Boilers, apparatus for gauging the heights of water in
Smut machines
Paper, making
Window blinds, devices for opening and closing
Washing machines
Composition for lubricating machinery

Dec. 4, 1847
July 3, 1847; antedated Jan. 3, '47.
Sept. 4, 1847
Oct. 16, 1847
Mar. 6, 1847
July 10, 1847
Mar. 13, 1847
Feb. 30, 1847
Aug. 21, 1847
Oct. 2, 1847
Dec. 4, 1848; antedated Mar. 11, '47.
Mar. 20, 1847
Oct. 23, 1847
July 24, 1847
April 24, 1847
Aug. 28, 1847
June 19, 1847
June 12, 1847
May 1, 1847
May 15, 1847
Sept. 11, 1847
May 1, 1847
Dec. 28, 1847; antedated Apl. 27, '47.
Feb. 20, 1847
Feb. 5, 1847
June 5, 1847
Oct. 23, 1847
Oct. 28, 1840
Aug. 28, 1847
May 22, 1847
May 22, 1847
Dec. 11, 1847
Feb. 1, 1848; antedated July 1, '47.
Nov. 6, 1847
Nov. 26, 1847
April 10, 1847
June 26, 1847
Nov. 26, 1840
Nov. 13, 1847
July 5, 1848; antedated Oct. 14, '47.
Aug. 14, 1847
April 17, 1847
Mar. 6, 1847
Sept. 11, 1847
Dec. 4, 1847
Feb. 20, 1847
May 15, 1847
Mar. 27, 1847
April 10, 1847
Nov. 6, 1847
Sept. 11, 1847

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ALPHABETICAL LIST OF PERSONS WHOSE PATENTS FOR DESIGNS HAVE EXPIRED DURING THE YEAR 1861.

No.	Patentee.	Design.	Date.
138	Albro, James, jr.	Floor cloth	July 24, 1847.
103	Barry, Thomas, assignor to S. H. Ransom	Stoves	January 5, 1847.
104	Barry, Thomas, assignor to S. H. Ransom	Stoves	January 5, 1847.
154	Barry, Thomas, assignor to S. H. Ransom	Stoves	October 2, 1847.
137	Batchelor, Nathaniel	Clock frames	July 24, 1847.
125	Biggins, Henry, assignor to James L. Jackson	Grates, fire-place	June 5, 1847.
139	Booth, D. A.	Buttons, ornamental	July 24, 1847.
115	Bowers, George P., and Joseph Pratt	Stoves	April 10, 1847.
143	Brownell, Asa C.	Stoves	August 14, 1847.
133	Burgess, John, assignor to Gilbert Geer	Stoves	July 3, 1847.
147	Bush, Roswell	Stoves	September 4, 1847.
148	Conklin, James H.	Stoves	September 11, 1847.
108	Cresson, William P., Jacob Beesley and David Stuart, the last two assignors to the first.	Stoves	January 13, 1847.
117	Cresson, William P., S. H. Sailor, D. Stuart, and J. Beesley, the last three assignors to the first.	Stoves	April 17, 1847.
116	Cresson, William P., D. Stuart, J. Beesley, and L. A. Watson, the last three assignors to the first.	Stoves	April 17, 1847.
149	Gale, W., and Nathaniel Hayden	Spoons, forks, &c.	September 11, 1847.
150	Gale, W., and Nathaniel Hayden	Spoons and forks	September 11, 1847.
119	Geer, Gilbert	Stoves	May 1, 1847.
158	Gibbs, Samuel W., assignor to J. C. Potts	Stoves	October 23, 1847.
160	Gibbs, Samuel W., assignor to A. Quackenboss	Stoves	November 27, 1847.
128	Gibney, Michael	Spoons and forks	June 19, 1847.
107	Goodhue, D. F., and C. Guild	Stoves	January 13, 1847.
161	Goodhue, D. F., and C. Guild	Stove plates	December 4, 1847.
155	Gordon, James G.	Stoves	October 2, 1847.
156	Green, Jeremiah, assignor to Viall & Warren	Stoves	October 2, 1847.
159	Guild, Charles	Stoves	October 23, 1847.
122	Hampton, Adam	Grates, fire-place	May 15, 1847.
153	Heermans, Jacob	Stoves	October 2, 1847.
144	Hickok, William	Stoves	August 14, 1847.
121	Jackson, James L.	Grates, fire-place	May 15, 1847.
123	Low, Peter	Stoves, cooking	May 22, 1847.
114	Moore, John C.	Spoon handles, &c.	April 3, 1847.
124	Moore, John C.	Spoons	May 29, 1847.
162	Palmer, Lucius O., assignor to John F. Seymour	Stoves	December 18, 1847.
118	Penniman, Elijah P.	Stoves	April 17, 1847.
110	Penniman, E. P., assignor to Cheney, Hunter & Rowe	Stoves, cooking	February 10, 1847.
106	Ransom, Samuel H.	Stoves	January 5, 1847.
141	Ransom, Samuel H.	Stoves	August 7, 1847.
113	Rathbone, John F.	Stoves	March 20, 1847.
142	Rathbone, John F.	Stoves	August 7, 1847.
157	Rathbone, John F.	Stoves	October 23, 1847.
134	Resor, William	Stoves	July 17, 1847.
111	Ripley, Ezra, assignor to Johnson & Cox	Stoves	February 27, 1847.

131	Ripley, Ezra, assignor to Johnson & Cox	Stoves, parlor	July	3, 1847.
132	Ripley, Ezra, assignor to Johnson & Cox	Stoves, parlor	July	3, 1847.
151	Ripley, Ezra, assignor to Johnson & Cox	Stoves	September	11, 1847.
140	Robbins, Roland A.	Stoves	August	7, 1847.
145	Shepard, Charles J.	Stoves	August	28, 1847.
112	Simmons, Peter J., assignor to John F. Rathbone	Stoves	March	20, 1847.
146	Sizer, George W. and Henry	Stoves	September	4, 1847.
126	Smith, Ellihu	Stoves	June	12, 1847.
130	Vose, Samuel D.	Stoves, air-tight	June	26, 1847.
129	Wager, James	Stoves	June	26, 1847.
127	Wallace, Allen S., and J. S. Lithgow	Stoves	June	26, 1847.
120	Warnick, Charles W., and F. Leibrandt	Stoves	June	12, 1847.
152	Wright, George W.	Ovens, frame for	May	8, 1847.
109	Wolf, Charles	Woollens, printing on	September	11, 1847.
135	Woolson, Charles J.	Stoves	January	21, 1847.
136	Woolson, Charles J.	Stoves	July	17, 1847.
		Stoves	July	17, 1847.

COMMISSIONER OF PATENTS.

LIST OF PATENTEES OF INVENTIONS, DESIGNS, AND REISSUES GRANTED DURING THE YEAR 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2684	Abbey, D. B.	Horseheads, N. Y.	Corn planters	Nov. 12, 1861.
95	Abbott, S. C.	Zanesville, Ohio	Projectiles for ordnance	Jan. 15, 1861.
2869	Abbott, Levi	Boston, Mass.	Gas regulators	Dec. 10, 1861.
	Abbott & Noble. (See Gibbs, S. W., assignor.)			
2322	Abendroth, W. P., A. & J. (See Mersereau, Jacob, assignor.)	Pottsville, Pa.	Removable carriage fronts	Sept. 24, 1861.
1658	Ackermann, Bernard	New York, N. Y.	Lithographic power presses	July 2, 1861.
140	Ackerman, P. J.	Paterson, N. J.	Combination of cooking stove and air-heating furnaces	Jan. 22, 1861.
756	Adams, Albert S., assignor to self and Joseph Watson.	Chelsea, Mass.	Printing presses	Mar. 19, 1861.
	Adams, Alfred, et al. (See Roberts, S., assignor.)			
1669	Adams, Augustus	Sandwich, Ill.	Horse power	July 2, 1861.
1967	Adams, Augustus	Sandwich, Ill.	Corn-shellers	Aug. 6, 1861.
1848	Adams, Calvin	Pittsburg, Pa.	Meat-cutter	July 23, 1861.
1949	Adams, Federal C., and Jos. Peekover	Cincinnati, Ohio	Cooking stoves	July 30, 1861.
1165	Adams, Freeborn	Somerville, Mass.	Casting copper cylinders	April 30, 1861.
2919	Adams, George B., assignor to self and James M. Stone	Cambridge, Mass.	Supporting tents	Dec. 10, 1861.
96	Adams, James	New York, N. Y.	Hydrometers	Jan. 15, 1861.
2224	Adams, James C.	Baltimore, Md.	Apparatus for injecting meat with brine	Sept. 10, 1861.
2323	Adams, John	Monroe, Mich.	Harrows	Sept. 24, 1861.
1548	Adams, John J.	New York, N. Y.	Flexible back brush	June 18, 1861.
359	Adams, R. A.	Indianapolis, Ind.	Grainers' tool	Feb. 12, 1861.
3039	Adams, Thomas W., assignor to self and C. H. Slicer.	Baltimore, Md.	Men's hats	Dec. 24, 1861.
	Adamson, William. (See Shinn, John, assignor.)			
1266	Adt, John	Waterbury, Conn.	Latch bolts	May 14, 1861.
1601	Adt, John	Waterbury, Conn.	Lock	June 25, 1861.
2465	Ahl, David	Newville, Pa.	Surgical splints	Oct. 15, 1861.
222	Aiken, George C.	Worcester, Mass.	Heel attachment for boots and shoes	Feb. 5, 1861.
283	Aiken, J. B.	New York, N. Y.	Knitting machines	Feb. 5, 1861.
1670	Aiken, Walter	Franklin, N. H.	Knitting machines	July 2, 1861.
517	Albaugh, George C.	Louisville, Ky.	Manufacture of cow-bells	Feb. 26, 1861.
284	Albert, John	Philadelphia, Pa.	Turning pegs for violins, &c.	Feb. 5, 1861.
1166	Aldrich, George	Armada, Mich.	Ladder	April 30, 1861.
1498	Aldridge, Hiram	Michigan City, Ind.	Machines for threshing and separating grain	June 11, 1861.
	Alexander, Adin, and William J. Innis. (See Westland, Charles S., assignor.)			
1167	Alexander, Frederick W.	Baltimore, Md.	Combination lock	April 30, 1861.
97	Alexander, J. T. D.	Maryanna, Texas	Cultivators	Jan. 15, 1861.
427	Alford, H. C.	Minooka, Ill.	Washing machine	Feb. 12, 1861.
2972	Alger, Charles	Hudson, N. Y.	Breech-loading ordnance	Dec. 24, 1861.
	Allamon, Samuel, et al. (See Coppage, Francis C., assignor.)			
1	Allan, R., assignor to A. Smith.	Camden, N. Y.	Carpet	Feb. 5, 1861.
937	Allard, D. N.	McConnelsville, Ohio	Horse-shoe machine	April 9, 1861.
21	Allen, Aaron H.	Boston, Mass.	Seats for public buildings. (Original patent Dec. 5, 1854; reissued January 15, 1861.)	(Reissue.)
691	Allen, Ethan	Worcester, Mass.	Machine for manufacture of metallic cartridges	Mar. 19, 1861.

2324	Allen, Ethan	Worcester, Mass.	Revolving fire-arms	Sept. 24, 1861.
2595	Allen, Ethan	Worcester, Mass.	Revolving fire-arms	Oct. 22, 1861.
360	Allen, Josiah A.	Deerfield, Mass.	Butter worker	Feb. 12, 1861.
1453	Allen, L. H.	Amherst, Mass.	Forming wire-cloth dish covers	June 4, 1861.
98	Allen, T. F.	Dyersville, Iowa	Springs for railroad cars	Jan. 15, 1861.
1950	Allender, John	New London, Conn.	Wringing machines	July 30, 1861.
	Alley, John B., and Edward H. Ashcroft. (See Curtis, Frederick, assignor.)			
2766	Alsop, Charles H.	Middletown, Conn.	Revolving fire-arms	Nov. 26, 1861.
1671	Alsop, Charles H.	Middletown, Conn.	Chuck for boring fire-arm cylinders	July 2, 1861.
1329	Alsop, Charles R., assignor to J. W. Alsop	Middletown, Conn.	Revolving fire-arms	May 14, 1861.
580	Alvord, Clark	Westford, Wis.	Binding attachment to harvesters	Mar. 5, 1861.
1023	Alvord, Joseph D.	Bridgeport, Conn.	Binder guides for sewing machines	April 16, 1861.
1106	Ambrose, Joshua E.	Lena, Ill.	Lamps	April 23, 1861.
	American Hard Rubber Company. (See Franklin, Bradley W., assignor.)			
	American Hoop Machine Company. (See Sawyer, J. & S., assignors.)			
	American Telegraph Company. (See Phelps, George M., assignor.)			
	Ames, James T. (See Terry, S. M., assignor.)			
2726	Ames, Nathan, assignor to Parker & Perkins	Saugus Centre, Mass.	Means of attaching forks and spoons to knives	Nov. 19, 1861.
2281	Ames, Nathan	Saugus Centre, Mass.	Combination of knife, fork, and spoon	Sept. 17, 1861.
2312	Ames, Nathan, assignor to himself and J. C. Wilder	Saugus Centre, Mass.	Strainer for coffee and tea pots	Sept. 17, 1861.
	Amoskeag Manufacturing Company. (See Bean, Nehemiah S., assignor.)			
	Amoskeag Manufacturing Company. (See Bean, Nehemiah S., assignor.)			
2685	Anderson, Albert	Bridgeport, Conn.	Roller skates	Nov. 12, 1861.
765	Anderson, C. F., and S. Davis	Claremont, N. H.	Water elevators	Mar. 26, 1861.
1549	Anderson, Charles T.	Hyattstown, Md.	Churn	June 18, 1861.
1107	Anderson, David S.	Trenton, N. J.	Apparatus for making roofing cloth	April 23, 1861.
361	Anderson, P.	Norwich, N. Y.	Water elevators	Feb. 12, 1861.
2167	Anderson, Thomas K.	Addison, N. Y.	Oil cans	Oct. 15, 1861.
1849	Andres, Stephen R.	Troy, N. Y.	Articles of food made from beans	July 23, 1861.
518	Andress, Samuel	Chesaning, Mich.	Transmitting motion	Feb. 26, 1861.
1602	Andrew, P.	Cincinnati, Ohio	City railways	June 25, 1861.
2624	Andrews, Benjamin	Philadelphia, Pa.	Army trunks	Nov. 5, 1861.
2727	Andrews, Joel W.	Norristown, Pa.	Gun and bayonet battery	Nov. 5, 1861.
1499	Andrews, John	Brunswick, Me.	Mode of securing circular saws to arbors	June 11, 1861.
285	Andrews, Tyler	North Easton, Mass.	Adjusting coupling-link of railway cars	Feb. 5, 1861.
2767	Andrews, Wm. H.	New Haven, Conn.	Variable cams	Nov. 26, 1861.
428	Anson, Rufus	New York, N. Y.	Bath for turning photographic pictures	Feb. 19, 1861.
2226	Anthony, Charles Gustave	Paris, France	Photographic apparatus	Sept. 10, 1861.
1400	Anthony, H. T., and F. Phoebus	New York, N. Y.	Photographic albums	May 28, 1861.
	Archbold, Samuel, and J. Cragg. (See Cragg & Archbold.)			
	Archibald, J. T., and J. Stone. (See Stone & Archibald.)			
213	Armstrong, George W.	Clinton, N. C.	Water wheels	Jan. 29, 1861.
1034	Armstrong, James	Dobbinville, N. C.	Operating pumps	April 16, 1861.
1035	Armstrong, John R.	Kendallville, Ind.	Steam-engines	April 16, 1861.
1810	Armstrong, William F., and Morgan Payne	Cardington, Ohio	Churns	July 16, 1861.
1736	Arnold, Benjamin	East Greenwich, R. I.	Lamp shade	July 9, 1861.
	Arnold, B., and J. C. Butterworth. (See Butterworth & Arnold.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1811	Arnold, Benjamin	East Greenwich, R. I.	Filters	July 16, 1861.
2225	Arnold, Horace L.	Elk Horn, Wis.	Machines for dressing hides	Sept. 10, 1861.
1812	Arnold, Varnum G.	Providence, R. I.	Stud and button fastening	July 16, 1861.
2419	Arnold, William E. & H. G.	Rochester, N. Y.	Sash and blind fastener	Oct. 8, 1861.
766	Asay, A. M. & J. L.	Philadelphia, Pa.	Moulds for artificial teeth	Mar. 28, 1861.
2282	Asahd, Abel.	Garrettsville, Ohio.	Camp stool	Sept. 17, 1861.
	Asheroff, Edward H., and John B. Alley. (See Curtis, Frederick, assignor.)			
	Asheroff, E. H. (See Haskell, A. L., assignor.)			
286	Ashley, Frederick	New York, N. Y.	Ice chair	Feb. 5, 1861.
	Ashley, Wm., et al. (See Jenne, Lansing K., assignor.)			
	Aslimead, Jas. H., et al. (See Stever, Jeremiah, assignor.)			(Reissue.)
	Aslimead, J. H., et al. (See Randall, D. F., assignor.)			
1267	Askam, Charles	Philadelphia, Pa.	Children's carriages	May 14, 1861.
	Atterbury, Hale & Co. (See Reighard, Jacob, assignor.)			
	Atterbury, J. S., and J. Hale. (See Hale & Atterbury.)			
856	Atwater, Joseph H.	Providence, R. I.	Portable copying press	
	Atwood, Anson	Troy, N. Y.	Cast-iron car wheels. (Original patent, May 15, 1847; re-issued June 9, 1857. Divisions B and C, September 22, 1857, extended April 27, 1861.)	(Extension.)
506	{ Atwood, J. E., and Lewis Leigh, assignors to themselves, J. C. Atwood, V. A. Messenger & Bro.	{ Mansfield Centre, Conn. Seymour, Conn.	Machine for sorting silk thread	Feb. 19, 1861.
854	Atwood, Luther	New York, N. Y.	Manufacture of hydro-carbon oils	Mar. 26, 1861.
1672	Aubin, N.	Albany, N. Y.	Dry gas-holders	July 2, 1861.
936	Auborn, Calvin	Watertown, N. Y.	Cheese presses	April 9, 1861.
	Augee, H., and B. C. Bibb. (See Bibb & Augée.)			
198	Auld, W. H., assignor to self and R. C. Brown.	Fairfield, Iowa.	Circular sawing machines	Jan. 22, 1861.
140	Aultman, C., and L. Miller, assignors, by mesne assnts., to C. Aultman & Co.	Canton, Ohio.	Mowing machines (Original patent, June 17, 1856; re-issued July 19, 1859; again re-issued December 10, 1861.)	(Division of re-issue, B)
141	Aultman, C., and L. Miller, assignors, by mesne assnts. to C. Aultman & Co.	Canton, Ohio.	Mowing machines. (Original patent, June 17, 1856; re-issued July 19, 1859; again re-issued December 10, 1861.)	(Division of re-issue, B.)
	Aultman, C., & Co. (See Miller, Lewis, assignor.)			
581	Austin, Wm. W., and F. Creasey	Carrollton, Mo.	Hemp breaks	Mar. 5, 1861.
2625	Avery, John P.	Norwich, Conn.	Trusses for bridges	Nov. 5, 1861.
2559	Avery, Wyllis	Salisbury, N. Y.	Window-blind fasteners	Oct. 29, 1861.
141	Axe, William R.	Beloit, Wis.	Clamping machine for carpenters	Jan. 22, 1861.
582	Axe, William R.	Beloit, Wis.	Mop-holder	Mar. 5, 1861.
2738	Baar, G. L.	Indianapolis, Ind.	Scroll saw	Nov. 19, 1861.
287	Babbitt, Benjamin T.	New York, N. Y.	Ordnance	Feb. 5, 1861.
1737	Babbitt, B. T.	New York, N. Y.	Construction of iron vessels	July 9, 1861.
	Babcock, Charles T. (See Richards, Wm. H., assignor.)			
288	Babcock, G. H.	New York, N. Y.	Apparatus for mitreing printers' rules	Feb. 5, 1861.
1036	{ Bacon, F. M., and Joseph Fowler	{ Ripon, Wis. Hartland, Wis.	Seeding machines	April 16, 1861.

1673	Bacon, Jerome & Gilbert.....	Medina, Wis.....	Washing machine.....	July 2, 1861.
429	Bacon, J. M.....	Ripon, Wis.....	Seeding machines.....	Feb. 19, 1861.
1550	Badlam, Edward.....	Ogdensburg, N. Y.....	Seeding harrows.....	June 18, 1861.
1108	Bailey, Charles.....	Batavia, Ill.....	Arrangement of threshing cylinder corn-sheller and grinding mill.....	April 23, 1861.
935	Bailey, E. H.....	Philadelphia, Pa.....	Key-fastener.....	April 9, 1861.
1168	Bailey, Franklin L.....	Boston, Mass.....	Printing presses.....	April 30, 1861.
1109	Bailey, Henry.....	Columbia, Me.....	Washing machine.....	April 23, 1861.
1850	Bailey, O. B., and M. R. Griswold. (See Griswold & Bailey.)	New York, N. Y.....	Telegraph.....	July 23, 1861.
1037	Bain, Alexander.....	Richmond, Ind.....	Tenoning machine.....	April 16, 1861.
1500	Bain, James, and Samuel C. Brown.....	Hartford, Conn.....	Broom corn.....	June 11, 1861.
1738	Baker, C. L. W., assignor to self and J. W. Bliss.....	Adams Centre, N. Y.....	Wheels for carriages.....	July 9, 1861.
1339	Baker & Grover Sewing Machine Co. (See Hook, Albert H.)	Milford, N. Y.....	Apparatus for milking cows.....	May 21, 1861.
2506	Baker, John C.....	Providence, R. I.....	Woven endless belting.....	Oct. 22, 1861.
2920	Baker, M. L.....	Baltimore, Md.....	Camp bed.....	Dec. 17, 1861.
1340	Baker, Wm. E., and W. O. Grover. (See Grover & Baker.)	Westminster, Conn.....	Manufacture of hoes.....	May 21, 1861.
1454	Baker, Stephen A., et al. (See Thayer, Daniel H., ass'r.)	New York, N. Y.....	Steam heating apparatus.....	June 4, 1861.
310	Baker, S. W.....	Walpole, Ind.....	Refrigerator (Original patent, April 3, 1860; additional improvement, January 15, 1861.)	(Additional improvement.)
1501	Baker, William C.....	Branford, Conn.....	Curry combs.....	June 11, 1861.
289	Baker, William M.....	Afton, N. Y.....	Cart.....	Feb. 5, 1861.
1502	Baker, W. R. (See McCormick & Baker.)	Waterbury, Conn.....	Skirt supporters.....	June 11, 1861.
2626	Baldwin, B. S., et al. (See Harrah, Baldwin & Jones.)	New York, N. Y.....	Camp chest and cook stove combined.....	Nov. 5, 1861.
2627	Baldwin, Eli N. (See Hooper, Benjamin F., assignor.)	Worcester, Mass.....	Breech-loading fire-arms.....	Nov. 5, 1861.
214	Baldwin, George D. (See Butterworth, Joshua H., ass'r.)	Mount Pleasant, Iowa.....	Mole plough.....	Mar. 26, 1861.
214	Baldwin, H. L. (See Randall, Henry, assignor.)	Canton, Ohio.....	Finger guards for harvesters.....	Jan. 29, 1861.
215	Baldwin, Isaac P. (See Randall, Henry, assignor.)	Canton, Ohio.....	Finger guards for harvesters.....	Jan. 29, 1861.
199	Baldwin, Norman R.....	Canton, Ohio.....	Finger guards for harvesters.....	Jan. 29, 1861.
2468	Baldwin, Sarah A.....	Canton, Ohio.....	Finger guards for harvesters.....	Jan. 29, 1861.
67	Ball, C., et al. (See Glenn, Ball & Hackett.)	Canton, Ohio.....	Sewing machines.....	Feb. 19, 1861.
431	Ball, George W., et al. (See Nye, John Wight, assignor.)	Boston, Mass.....	Sewing machines.....	Jan. 22, 1861.
122	Ball, H. W.....	Abington, Mass.....	Worcester, Mass.....	Umbrellas and parasols.....
2627	Ballard, C. H.....	Schaghticoke, N. Y.....	Milpitas, Cal.....	Railroad chairs.....
767	Ballard, H. H., and H. McClure.....	Milpitas, Cal.....	Boston, Mass.....	Gates.....
280	Ballard, M. L.....	Boston, Mass.....	Boston, Mass.....	Machines for cutting irregular forms. (Original patent, May 15, 1855; reissued September 10, 1861.)
214	Ballard, M. L.....	Abington, Mass.....	Boston, Mass.....	
215	Ballard, M. L.....	Abington, Mass.....	Boston, Mass.....	
216	Ballard, M. L.....	Abington, Mass.....	Boston, Mass.....	
430	Ballman, Louis.....	Abington, Mass.....	Boston, Mass.....	
199	Ballou, Francis D., assignor to self and J. L. Nash.....	Abington, Mass.....	Boston, Mass.....	
2468	Balsburgh, J., et al. (See Fassler, C. W., assignor.)	Abington, Mass.....	Boston, Mass.....	
67	Bancroft, T. G.....	Abington, Mass.....	Boston, Mass.....	
431	Bangs, Francis N., et al. (See Harsen, Wm., assignor.)	Abington, Mass.....	Boston, Mass.....	
122	Banker, E. B.....	Abington, Mass.....	Boston, Mass.....	
431	Banks, T. C., et al. (See Warren, Sylvester W., assignor.)	Abington, Mass.....	Boston, Mass.....	
122	Barber, Hiram.....	Abington, Mass.....	Boston, Mass.....	
122	Barber, I. S., assignor to Robert J. Mareher.....	Abington, Mass.....	Boston, Mass.....	
	Bard, Winfield S. (See Towers, Wm. H., assignor.)			
	Bard, Winfield S. (See Towers, Wm. H., assignor.)			
	Barker, Daniel E., and William Van Duzer. (See Sprague, Welcome, assignor.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1739	Barker, George	New York, N. Y.	Machinery for making cigars	July 9, 1861.
2283	Barker, George R.	Germantown, Pa.	Brakes for horse cars	Sept. 17, 1861.
2429	Barker, J. W., and J. P. Haskins	Syracuse, N. Y.	Purification of common salt	Oct. 8, 1861.
2656	Barker, Silas, and A. H. Smith.	Hartford, Conn.	Water metres	Nov. 12, 1861.
25	Bailey, Samuel and J. H.	Longwood, Mo.	Harvesters. (Original patent, June 19, 1860 reissued January 23, 1861.)	(Reissue.)
2507	Barlow, A. P.	Dixon, Ill.	Washing machine	Oct. 22, 1861.
	Barlow, Renton & Crosby. (See Renton, Crosby & Barlow.)			
99	Barnard, Ambrose E.	Paterson, N. J.	Hose coupling	Jan. 15, 1861.
	Barnard, Charles E. (See Sayre, Charles H., assignor.)			
217	Barnard, William B.	Waterbury, Conn.	Sash fastener	Jan. 29, 1861.
2421	Barnes, George C.	Battle Creek, Mich.	Saw mills	Oct. 8, 1861.
1110	Barnes, Edmund F.	Brooklyn, N. Y.	Railroad chair and splice	April 23, 1861.
2369	Barnes, Edmund F.	New York, N. Y.	Telegraph instrument	Oct. 1, 1861.
	Barnes, S. H., et al. (See Daniels, Phylander, assignor.)			
	Barnett, G. W., et al. (See Owen, J. D., assignor.)			
	Barnes, W. H. (See Crocker, Horace T., assignor.)			
2921	Barney, Benjamin G.	Philadelphia, Pa.	Fastenings for shoulder straps	Dec. 17, 1861.
362	Barnum, Daniel	Jersey City, N. J.	Guides for sewing machines	Feb. 12, 1861.
1503	Barrand, L. D.	New York, N. Y.	Scroll sewing machines	June 11, 1861.
768	Barre, Leon Pierre	Paris, France	Steam boilers	Mar. 25, 1861.
1603	Barrett, Nathan	New York, N. Y.	Pumps	June 25, 1861.
2407	Barrett, Oliver D., assignor to self and Stephen E. Lanphear.	Fulton, N. Y.	Clothes wringers	Oct. 1, 1861.
31	Barstow, A. C.	Providence, R. I.	Stove (Design)	Mar. 26, 1861.
1224	Barstow, A. C., assignor to Barstow Stove Company.	Providence, R. I.	Cooking stoves	April 30, 1861.
1740	Bartholomae, Charles	New York, N. Y.	Canteen	July 9, 1861.
2628	Bartholomew, F. H.	New York, N. Y.	Water-closet	Nov. 5, 1861.
1343	Bartholomew, Harry S.	Bristol, Conn.	Ball brace	May 21, 1861.
1341	Bartholow, Roberts	United States army.	Water-proof cartridge	May 21, 1861.
938	Bartle, Ransom	Independence, Iowa.	Water elevators	April 9, 1861.
	Bartlett & Johnson. (See Johnson & Bartlett.)			
100	Bartlett, Dennis S.	Roxbury, Mass.	Weight and hitch strap for fastening horses	Jan. 15, 1861.
	Bartlett, S. S., and J. E. Brown. (See Brown & Bartlett.)			
2326	Bartlett, S. S., assignor to self and Thomas H. Dodge	Woonsocket, R. I.	Mortising machine	Sept. 24, 1861.
1951	Bartlett, William D.	Amesbury, Mass.	Furnaces for heating buildings	July 30, 1861.
1741	{ Barton, E. P., and Fowle, R. W.	{ Batavia, N. Y. Bath, N. Y.	Hay rakes	July 9, 1861.
1490	Bartoo, Jesse, assignor to self and Zina H. Hemstreet.	East Aurora, N. Y.	Excavators	June 4, 1861.
200	Bartram, Walter B., assignor to C. T. Dudley and A. S. Dodd, and said Dudley assignor to said Dodd.	Norwalk, Conn.	Fare boxes	Jan. 22, 1861.
1169	Bassford, A., jr., and W. B. Carpenter	New York, N. Y.	Skates	April 30, 1861.
1170	Batcheller, L. B.	Rochester, N. Y.	Pistons of steam-engines	April 30, 1861.
1851	Battermann, H. C. W.	New York, N. Y.	Bird cages	July 23, 1861.
142	Bauhoefer, Louis	Philadelphia, Pa.	Gum shoes and boots	Jan. 22, 1861.
939	Bausman, J. B.	Rochester, Pa.	Car ventilator	April 9, 1861.

	Bay State Glass Company. (See Chaffee, Chas. S., assignor.)		
940	Bayley, A. L.	Amesbury, Mass.	Shaping and embossing hats and caps.
1813	Bayley, A. L.	Amesbury, Mass.	Steam trap
218	Bayley, G. W. R., and T. W. Nelson	Brashear, La.	Draw bridges
2870	Baylis, James R.	Baltimore, Md.	Double-cone marine propeller.
941	Bazin, James A.	Canton, Mass.	Bobbins for spinning machines
	Beach, Burrough, and George Minor. (See Minor & Beach.)		
363	Beach, Charles, and Thomas Brown	Jacksontown, Ohio	Cultivators
	Beach, James C. (See Wheeler, Grant J., et al., assignors.)		
1504	Beach, Henry H.	Philadelphia, Pa.	Grain winnowers
2327	Beach, Henry H.	Philadelphia, Pa.	Grain separators
2560	Beach, William	Hamden, Conn.	Tanning composition
343	Beach, W. H., assignor to J. S. Beach.	Chicago, Ill.	Machine for swaging sheet metal
942	Beagle, Henry J.	Philadelphia, Pa.	Safety hooks for harness
1455	Beall, Z. M.	Russellville, Ky.	Ploughs
101	Bean, J. H.	Forreston, Ill.	Seed drills
134	Bean, Nehemiah S., assignor to the Amoskeag Manufacturing Company.	Manchester, N. H.	Steam fire-engines
201	Bean, Nehemiah S., assignor to the Amoskeag Manufacturing Company.	Manchester, N. H.	Staff motion picker
1814	Beard, G. N.	St. Louis, Mo.	Iron ties for cotton press
1604	Beardsley, Levi A.	South Edmeston, N. Y.	Portable crane
1852	Beardsley, Levi A.	South Edmeston, N. Y.	Pulley blocks
2173	Beardsley, Levi A.	South Edmeston, N. Y.	Hop frames
2284	Beardsley, Levi A.	South Edmeston, N. Y.	Hay elevating fork
2561	Beardsley, Lester C.	Cleveland, Ohio	Ventilators for railroad cars
2285	Beardsley, Orson P.	McDonough, N. Y.	Process of refining maple sugar
1342	Beatty, A. W., and R. H. Blair. (See Blair & Beatty.)	Norwalk, Conn.	Apparatus for forming hat bodies
	Beauche, Louis, et al. (See Muller & Majer, assignors.)		
2973	Beck, Traugott	Newark, N. J.	Apparatus for bracing the yards of vessels
2123	Beecher, William F.	Chicago, Ill.	Stoves
1171	Behn, Henry	New York, N. Y.	Washing machine
1730	Behr, Edward, assignor to self and H. C. Mangels	Brooklyn, N. Y.	Skate
	Behrmann, J. B. (See Kipling, H.)		
143	Bell, A. John	Ashland, Ky.	Staging, steamboat
1605	Bell, David	Buffalo, N. Y.	Screw propeller
648	Bell, James H.	Chelsea, Mass.	Stove-pipe connexion
943	Bell, Joseph	Bellville, Ill.	Bolting chests
2329	Bellingher, Earl	Hickory Corners, Mich.	Seeding machines
202	Bellingrath, Albert, assignor to self and Leon'd Bellingrath, jr.	Atlanta, Ga.	Pumps
649	Benedict, J. A., and G. W. Cummings.	Conneaut, Ohio.	Ditching machine
144	Bennett, G., and R. Daltzell.	Waddington, N. Y.	Machine for cutting screws and tapping nuts
2922	Bennett, J. H. H.	Hunt's Hollow, N. Y.	Hotel annunciator.
2286	Bennett, Noah.	Sherman, N. Y.	Butter workers
	Bensel, William P., and Daniel R. Bowker. (See Bowker & Bensel.)		
1952	Benson, Benjamin S.	Baltimore, Md.	Machine pipe moulding
2174	Benson, Benjamin S.	Baltimore, Md.	Machine for moulding pipe
2408	Bent, Samuel S., assignor to self and Thomas Bent.	New York, N. Y.	Fireplace beaters
1268	Benton, Henry	Guilford, Conn.	Children's flying top
1674	Bentz, Charles.	Mendenville, N. Y.	Whiffletree hooks.
	Berger, Jasper. (See Van Camp, Gilbert, assignor.)		

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1	Berky, R. B., and J. Wenisch. (See Wenisch & Berky.)	Woodbridge, N. J.	Machines for cutting roots	Jan. 1, 1861.
2768	Berry, William C.	New York, N. Y.	Apparatus for advertising	Nov. 26, 1861.
583	Berthoud, Achille	Dayton, Ohio.	Composition to prevent the premature decay of trees, vines, &c.	Mar. 5, 1861.
1456	Betts, Henry T.	Springfield, Mass.	Carrriage steps	June 4, 1861.
2175	Betts, William	Wharf Road, City Road, England	Metallic capsules	Sept. 3, 1861.
1172	Bibb, B. C., and H. Angee	Baltimore, Md.	Stoves	April 30, 1861.
1606	Bibb, Bentley C., George F. Needham, and George W. Dorsey	Baltimore, Md. } Port Republic, Md. }	Apparatus for curing tobacco	June 25, 1861.
1505	Bidwell, Samuel W.	Hartford, Conn.	Machine for boring and mortising	June 11, 1861.
1953	Bigelow, A.	Hamilton, Canada West.	Rock drills	July 30, 1861.
2228	Bigelow, Erastus B.	Boston, Mass.	Brussels looms (Extension)	Mar. 6, 1861.
	Bigelow, Edwin R.	Salem, Mass.	Clothes frame	Sept. 10, 1861.
	Bigelow, H. B. (See Widmer, Jacob, assignor.)			
2176	Bigelow, William H.	South Framingham, Mass.	Melodeons	Sept. 3, 1861.
	Billings, A. M., et al. (See Sawyer, Langdon, assignor.)			
	Billings, G. W., and H. H. Hudson. (See Hudson & Billings.)			
2287	Billings, Henry A.	Providence, R. I.	Pipe moulding machine	Sept. 17, 1861.
2687	Billings, O.	La Grange, Ohio	Grain and grass harvesters	Nov. 12, 1861.
2688	Billings, Uriah	New Bedford, Mass.	Machines for making horse shoes	Nov. 12, 1861.
2409	Birdsell, William H., assignor to self and Eli Kellum	Elizabethport, N. J.	Tackle block-hook	Oct. 1, 1861.
1607	Eirdosh, George G.	Norwalk, Conn.	Machines for making felt cloth	June 25, 1861.
433	Bishop, Josiah	Austin, Texas	Machines for extracting cotton and corn stalks	Feb. 19, 1861.
432	Bisbee, Franklin	Scituate, Mass.	Masons' trowels	Feb. 19, 1861.
2814	Bissell, David	Detroit, Mich.	Machines for turning boot legs	Dec. 3, 1861.
1344	Bixler, C.	Rogersville, Ohio.	Water elevators	May 21, 1861.
769	Black, A. H., and C. R. Black	Indianapolis, Ind.	Hygrometer	Mar. 26, 1861.
	Black, James, and R. E. Rogers. (See Rogers & Black.)			
1954	Black, J. F. & W. L.	Lancaster, Ill.	Gang ploughs	July 30, 1861.
1402	Black, S. B.	Harrisburg, Pa.	Machines for sowing guano	May 23, 1861.
1608	Blackwood, Reuel	Philadelphia, Pa.	Hydraulic jack	June 25, 1861.
2062	Blair, R. A., and John B. Reed	New Philadelphia, Ohio.	Plough clevis	Aug. 20, 1861.
2508	Blair, R. H., and A. W. Beatty	Saltsburg, Pa.	Combined clover stripper and hay rake	Oct. 22, 1861.
	Blake Brothers. (See Burgess, Edward A., assignor.)			
	Blake, David, et al. (See Dodge, Levi, assignor.)			
	Blake, David, and Jas. Dodge. See Dodge, Jas., assignor.)			
855	Blake, George W., assignor to self and L. W. Blake	East Pepperell, Mass.	Belt fastening	Mar. 26, 1861.
2063	Blake, George W.	New York, N. Y.	Low water detector for steam boilers	Aug. 20, 1861.
2806	Blake, George F., assignor to self and Peter Hubbell	Medford, Mass.	Machines for pulverizing and cleaning clay	Nov. 26, 1861.
2974	Blake, S. A.	New York, N. Y.	Bonnets	Dec. 24, 1861.
692	Blake, William	Boston, Mass.	Furnace for galvanizing iron	Mar. 19, 1861.
	Blanchard, A. V., J. D., & F. (See Howard, G. C., assignor.)			
857	Blanchard, Francis Brown	Brooklyn, N. Y.	Steam boilers	April 2, 1861.
1610	Blanchard, F. B.	New York, N. Y.	Application of blowers to furnaces of locomotive	June 25, 1861.

1609	Blanchard, F. B.	Brooklyn, N. Y.	Steam boiler.	June 25, 1861.
2228	Blanchard, J. B.	Sacramento, Cal.	Anti-friction boxes for carriage wheels.	Sept. 17, 1861.
	Eiecker, Theophylact B.	New York, N. Y.	Folding bedsteads (Extension)	April 17, 1861.
	Bliss, George F., and W. C. Salmon. (See Salmon & Bliss.)			
	Bliss, J. W., et al. (See Baker, C. L. W., assignor.)			
1742	Blodgett, Canfield.	Morrison, Ill.	Ploughs.	July 9, 1861.
145	Blood, Abijah E. & Josiah B.	Lynn, Mass.	Sieves.	Jan. 22, 1861.
2259	Blood, Abijah E. & Josiah B.	Lynn, Mass.	Flour sifter.	Sept. 17, 1861.
2370	Bloodgood, John H.	New York, N. Y.	Machinery for drawing and spinning wool.	Oct. 1, 1861.
770	Blue, John.	Covert, N. Y.	Harvesters.	Mar. 26, 1861.
434	Bly, Douglas.	Rochester, N. Y.	Artificial legs.	Feb. 19, 1861.
317	Bly, Douglas.	Rochester, N. Y.	Attaching thills to vehicles, (additional improvement)	Mar. 12, 1861.
858	Blythe, John O.	Germantown, Pa.	Door-spring.	Apr. 2, 1861.
2117	Blythe, John O., assignor to self and Jos. W. Jones.	Germantown, Pa.	Ventilating hats and caps.	Aug. 20, 1861.
2230	Boardman, Henry K. W.	Chicago, Ill.	Vaginal syringes.	Sept. 10, 1861.
	Bodine, John F. (See Wilson, Joseph B., assignor.)			
2629	Boedicker, John Daniel.	New York, N. Y.	Piano-forte action.	Nov. 5, 1861.
859	Boeklen, R., and W. Staehlen.	New York, N. Y.	Smoking tube.	April 2, 1861.
2021	Boeklen, R., and W. Staehlen.	Brooklyn, N. Y.	Buttons or garment fasteners.	Aug. 13, 1861.
1955	Bogardus, O. H.	Syracuse, N. Y.	Grade delineator.	July 30, 1861.
2509	Bogia, Matthew C.	Philadelphia, Pa.	Rammers for cannon.	Oct. 22, 1861.
1611	Boies, Horace.	Hamburg, N. Y.	Washing machines.	June 25, 1861.
219	Bois, James M.	Aurora, N. Y.	Washing machines.	Jan. 29, 1861.
2124	Boissard, F., and S. Conrath.	New York, N. Y.	Bedstead and trunk combined.	Aug. 27, 1861.
146	Boisson, Louis A.	Lyons, France.	Ovens for baking fire-bricks.	Jan. 22, 1861.
2807	Bolles, Sol. E., assignor to self and Thos. Ellis.	Mattapoisett, Mass.	Carriage-pole supporter.	Nov. 26, 1861.
2371	Bollinger, Cornelius.	Glen Rock, Pa.	Pump.	Oct. 1, 1861.
771	Bollinger, Martin Eli.	Littlestown, Pa.	Oscillating engines.	Mar. 26, 1861.
2410	Bollman, Louis, assignor to Grover & Baker Sewing Machine Company.	Boston, Mass.	Sewing machines. (Patented in England Feb. 18, 1861)	Oct. 1, 1861.
2411	Bollman, Louis, assignor to Grover & Baker Sewing Machine Company.	Boston, Mass.	Sewing machines. (Patented in England Nov. 24, 1860)	Oct. 1, 1861.
2469	Bolster, Olney.	Worcester, Mass.	Stall for animals.	Oct. 15, 1861.
2815	Bolton, John Adams.	Leicester, England.	Hot-air furnaces. (Patented in England Mar. 19, 1861)	Dec. 3, 1861.
1457	Bonard, Louis.	New York, N. Y.	Circular looms for weaving hats.	June 4, 1861.
1956	Bond, Henry F.	Waltham, Mass.	Machine for sharpening fence pickets.	July 30, 1861.
	Bond, Richard. (See Ross, Robert, assignor.)			
1743	Boore, Lewis.	Buffalo, N. Y.	Dry gas metres.	July 9, 1861.
772	Boorn, Samuel.	Lowell, Mass.	Pickers for looms.	Mar. 26, 1861.
944	Boorn, Samuel.	Lowell, Mass.	Pickers for looms.	April 9, 1861.
	Bostwick, J. A. (See McMurtry, John, assignor.)			
290	Bottoms, Thomas J.	Thomasville, Ga.	Horse powers.	Feb. 5, 1861.
	Bouton, N. S. (See Hurlbut, E. F., assignor.)			
2871	Bowen, Edwin.	Meriden, Conn.	Mode of securing chimneys to lamps.	Dec. 10, 1861.
2125	Bowers, Henry.	New Hudson, Mich.	Cultivators.	Aug. 27, 1861.
364	Bowker, Daniel R., and Wm. P. Bensell.	New York, N. Y.	Machine for chiming and jointing staves.	Feb. 12, 1861.
	Bowman, Huntley & Co. (See Landon, Fred., assignor.)			
	Bowman, Huntley & Co. (See Landon, Fred., assignor.)			
	Bowman, Huntley & Silliman. (See Landon, F., assignor.)			
860	Boyd, Amos H.	Rockville, Mass.	Sewing machines.	April 2, 1861.
1612	Boyd, David M.	Indianapolis, Ind.	Tilting device in shingle machines.	June 25, 1861.
2064	Boyd, Thomas.	Boston, Mass.	Ventilating cap for tents.	Aug. 20, 1861.
2126	Boyd, Thomas.	Boston, Mass.	Tents.	Aug. 27, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
	Boyer, M. C., and Jane H. West. (See West, John G., jr., assignor.)			
	Boylard, J. N., et al. (See Stokes, James W., assignor.)			
773	Boynton, E. S.	Alexandria, Va.	Iron masts, steeples, &c.	Mar. 26, 1861.
2868	Bracher, Thomas	New York, N. Y.	Manufacturing bonnets	Dec. 3, 1861.
29	Brackett, Sewall	Fall River, Mass.	Fork cleaner	Feb. 5, 1861.
2816	Bradley, C. C.	Brodhead, Wis.	Double trees	Dec. 3, 1861.
1744	Bradley, C. H.	West Chester, Pa.	Post office distributing table	July 9, 1861.
2177	Bradley, Jacob	St. Mary's, Ohio	Steam engines	Sept. 3, 1861.
2758	Bradley, George, assignor to Jacob S. Rogers	Paterson, N. J.	Carding engines	Nov. 19, 1861.
520	Bradley, Lewis	Hartford, Conn.	Compensating pendulums	Feb. 26, 1861.
2372	Bradley, Morris	Empire Ranch, Cal.	Gold-washer	Oct. 1, 1861.
	Bradley, Wm. H. (See Smith, Anthony, assignor.)			
1441	Bradshaw, John A., assignor to self and Wm. H. Brown, sr.	Lowell, Mass.	Machines for winding thread	May 28, 1861.
	Brady, O. G., and G. B. Gurley. (See Gurley & Brady.)			
435	Brahn, John M.	Red Bank, N. J.	Railroad switches	Feb. 19, 1861.
135	{ Braidwood, William, and R. Whiting, assignors to Thomas Holmes	Mount Vernon Brooklyn, N. Y.	{ Operating slide valves of engines and pumps	Jan. 15, 1861.
861	{ Brainerd, J. E. F. Olds, and A. W. Olds	Cleveland, Ohio Lyon, Mich. Green Oak, Mich.	{ Harrow frames	April 2, 1861.
2178	Brainerd, Jehu	Cleveland, Ohio	Tanning	Sept. 3, 1861.
2327	Brainerd, Jehu	Cleveland, Ohio	Processes of coloring skins and leather	Sept. 24, 1861.
693	Brakeley, Joseph	New York, N. Y.	Machines for planing bark	Mar. 19, 1861.
521	Brand, Nathan	Leonardsville, N. Y.	Machine for manufacture of hoe blanks	Feb. 26, 1861.
1173	Brannan, William	Gloucester, N. J.	Washing machine	April 30, 1861.
	Brayley, James. (See Bronson, Levi, assignor.)			
694	Braynard, Thomas L.	New York, N. Y.	Rein-holder	Mar. 19, 1861.
	Brayley, J., and Mary Pitts, adm'r. (See Pitts, John A., deceased.)			
862	Breckinridge, James H.	Meriden, Conn.	Cap for oil cans	April 2, 1861.
102	Brelsford, M. C.	Girard, Ill.	Rakes for reapers	Jan. 15, 1861.
	Brett, Cyrus. (See Hennessey, Edward, assignor.)			
2373	Brewer, James	Albany, Ill.	Combined harrows and sowers	Oct. 1, 1861.
57	Brewer, Isaac D.	Cambridge, Mass.	Label or trade-mark	May 28, 1861.
25	Brewster, E. C.	Bristol, Conn.	Clock case	Mar. 19, 1861.
2273	Bridges, Albert, assignor to self and Alfred Bridges	New York, N. Y.	Springs	Sept. 10, 1861.
1545	Bridgman, George W., assignor to self and Osgood Dane	Somerville, Mass.	Car brake	June 11, 1861.
	Bridgman, J. B. (See Miller, William, assignor.)			
1551	Briggs, Albert D.	Springfield, Mass.	Mode of connecting the braces of iron bridges	June 18, 1861.
2	Briggs, Elhakim	South Bend, Ind.	Feeding mechanism for spoke machines	Jan. 1, 1861.
291	Briggs, John C.	Concord, N. H.	Guard to flat irons	Feb. 5, 1861.
863	Briggs, J. E.	Watertown, N. Y.	Brakes for carriages	April 2, 1861.
2328	Briggs, Joseph W., assignor to self and Kyse Smith	Cleveland, Ohio	Gate or door spring	Sept. 24, 1861.
1174	Brigs, Silas P.	Saratoga Springs, N. Y.	Hand corn planters	April 30, 1861.

	Briggs, W. H., and E. J. Keep. (See Keep & Briggs.)			
	Brigham, F., & Company. (See Trowbridge, William T., assignor.)			
2011	Brightbill, Adam, assignor to self and John Brightbill	Bethel Township, Pa.	Corn planters	Aug. 6, 1861.
68	Brinkerhoff, A. W.	Upper Sandusky, Ohio	Corn planters	Jan. 8, 1861.
1815	Brinkerhoff, A. W.	Upper Sandusky, Ohio	Shoes for seed planters	July 16, 1861.
	Brinkerhoff, L. H. & P., et al. (See Burr, T., assignor.)			
	Brinkerhoff, Parcel, et al. (See Burr, Theodore, assignor.)			
	Brinkerhoff, Rower, et al. (See Burr, Theodore, assignor.)			
	Brinkerhoff, R.	Mansfield, Ohio	Approach opening gates	May 28, 1861.
1403	Broadwell, Lewis Wells	St. Petersburg, Russia	Breech-loading ordnance	Dec. 10, 1861.
2872	Brock, Charles N.	Philadelphia, Pa.	Apparatus for revivifying bone black	July 2, 1861.
1675	Brock, John A.	Chicago, Ill.	Mining pan	April 23, 1861.
1111	Brody, Charles	New York, N. Y.	Machinery for cleaning vegetable fibres	Sept. 24, 1861.
2329	Bronson, G. N.	New Milford, Conn.	Felting machines	April 16, 1861.
1038	Bronson, Levi, assignor to self and James Brayley	Lockport, N. Y.	Straw carriers for threshing machines	Aug. 13, 1861.
2057	Brooke, John M.	U. S. navy	Detaching hook for nautical use	May 28, 1861.
1404	Brooks, Simeon	Chester, Conn.	Machinery for bending hooks and staples	Nov. 19, 1861.
2729	Brotton, Riley	Oskaloosa, Iowa	Cultivators	Sept. 10, 1861.
2231	Broughton, John	New York, N. Y.	Cut-off valve for steam-engines	Dec. 3, 1861.
2817	Brouner & Smith. (See Townsend, E. C., assignor.)			
2022	Brower, Isaac V.	Millstone, N. J.	Corn harvesters	Aug. 13, 1861.
203	Brown, Albert H., assignor to James Burton	Albany, N. Y.	Machines for cutting wooden mouldings	Jan. 22, 1861.
2330	Brown, A. H., assignor to James Burton	Albany, N. Y.	Machine for turning ovals	Sept. 24, 1861.
	Brown, A. P., and W. M. Page et al. (See Taft, T. F., assignor.)			
	Brown, C. B., and O. G. Langi. (See Holt, James G., ass'r.)			
2374	Brown, Charles F.	Warren, R. I.	Projectiles for ordnance	Oct. 1, 1861.
2562	Brown, D. C.	New York, N. Y.	Running gear for four-wheeled vehicles	Oct. 29, 1861.
	(Brown, E., and	Waterbury, Conn.	Making butt hinges	April 9, 1861.
945	W. H. Van Gieson	Paterson, N. J.		
	Brown, Henry, and G. Smith. (See Smith & Brown.)			
	Brown, H., and G. Smith. (See Smith & Brown, assignors.)			
2967	Brown, J. F., assignor to self and Allen Richards	New London, Conn.	Skirt supporters	Dec. 17, 1861.
69	Brown, Ira S.	Hopkinton, R. I.	Saw teeth	Jan. 8, 1861.
	Brown, Ira S., and B. B. Kenyon. (See Kenyon & Brown.)			
2818	Brown, James C.	Fond du Lac, Wis.	Machines for sawing shingle-bolts	Dec. 3, 1861.
6	Brown, J. F., and S. S. Bartlett	Woonsocket, R. I. (Reissue.)	Grain and grass harvesters	Jan. 1, 1861.
1112	Brown, J. F.	Columbus, Ga.	Cotton gins	April 23, 1861.
	Brown, John H., and James Harper. (See Krauser, John L., assignor.)			
2065	Brown, John Harcourt	Romsey, Eng.	Preparation of gunpowder to serve as charges for fire-arms.	Aug. 20, 1861; anted'd Oct. 15, 1859.
103	Brown, Lewis B.	Scriven county, Ga.	Cotton-seed planters	Jan. 15, 1861.
1552	Brown, Robert	Frederick, Md.	Harvesters	June 18, 1861.
	Brown, R. C. (See Auld, W. H., assignor.)			
	Brown & Smith, assignors to North, Chase & North. (See Smith & Brown, assignors.)			
2023	Brown, Samuel, jr.	Morristown, Pa.	Telegraphic instruments	Aug. 13, 1861.
	Brown, Samuel C., and James Bain. (See Bain & Brown.)			
684	Brown, S. W., assignor to self and J. McComber	Syracuse, N. Y.	Method of locking type galleys	Mar. 12, 1861.
	Brown, Thomas, and Charles Beach. (See Beach & Brown.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
	Brown, Thomas	London, Eng.....	Arrangement of means for working and stopping chain-cables	April 20, 1861;
	Brown, T. W., & L. Campbell. (See Campbell, Leonard, assignor.)			(extension.)
2975	Brown, Wm. A.....	Philadelphia, Pa.....	Railroad car ventilators ..	Dec. 24, 1861.
	Brown & Whitney. (See George S. Reynolds, assignor.)			
	Brown, William H., sr. (See Bradshaw, John A., assignor.)			
1968	Browne, Louis H.....	Boston, Mass.....	Keys for piano-fortes.....	Aug. 6, 1861.
1113	Broy, Daniel.....	Canton, Mo.....	Seed planters.....	April 23, 1861.
1345	Bruce, George, sr.....	Sing Sing, N. Y.....	Burglar alarms.....	May 21, 1861.
1969	Bruce, Norman H.....	Shirley, Mass.....	Fruit gatherers.....	Aug. 6, 1861.
	{ Bruckshaw, John.....	Oakley, Eng.....	Machines for elevating grain.....	Nov. 5, 1861.
2630	{ Bruckshaw, Henry, and Wm. Scott Underhill.....	Market Drayton, Eng.....		
	{ Wm. Scott Underhill.....	Newport, Eng.....	Sewing machines.....	Jan. 22, 1861.
204	{ Bruen, John T.....	Brooklyn, N. Y.....		
	Brudenn, A., and E. De Bassano. (See De Bassano & Brudenn.)			
220	Brumlen, Ludwig.....	Hoboken, N. J.....	Manufacture of oxychloride of lead.....	Jan. 29, 1861
774	Brunon, Felix.....	Philadelphia, Pa.....	Register for omnibuses, &c.....	Mar. 26, 1861.
946	Brush, George W.....	Brooklyn, N. Y.....	Floating derricks.....	April 9, 1861.
2976	Bryan, John O.....	Owego, N. Y.....	Truss pads.....	Dec. 24, 1861.
	Bryan, Thomas B., et al. (See Curtis, assignor.)			
221	Bryant, Joel.....	Brooklyn, N. Y.....	Pen-holders.....	Jan. 29, 1861.
365	Bryant, S. R.....	Waterford, Pa.....	Bee hives.....	Feb. 12, 1861.
	Bryson, R., and John De L. Watkins. (See Watkins & Bryson.)			
2977	Buchanan, Andrew.....	Jersey City, N. J.....	Steam-engines.....	Dec. 24, 1861.
1853	Buck, Jared K.....	Winona, Minnesota.....	Winnowing machines.....	July 23, 1861.
	Buckley, D. F., et al. (See Milliken, Wm. H. & Jno., ass'rs.)			
1458	Bucklin, Moses.....	Grafton, N. H.....	Harrows.....	June 4, 1861.
	Bucklin, S. S. (See Marshall, Moses, assignor.)			
2179	Buckman, Edward.....	East Greenbush, N. Y.....	Horse rakes.....	Sept. 3, 1861.
2978	Budd, M. D.....	Roscoe, Ill.....	Machine for cutting bolts.....	Dec. 24, 1861.
1346	Buell, Luther H., and Jno. Stevens. (See Stevens & Buell.)			
1459	Bullard, Ransom.....	Barre, Mass.....	Machines for turning and spreading hay.....	May 21, 1861.
1156	Bullock, Chester, assignor to self and De Forest Weld.....	Litchfield, Mich.....	Bee hives.....	June 4, 1861.
	Bundy, A. O., and G. A. Corser. (See Corser & Bundy.)	Jamestown, N. Y.....	Rakes for harvesters.....	April 23, 1861.
1269	Bundy, L. S., and L. F. Edgerton.....	Hyde Park, Vt.....	Corn shellers.....	May 14, 1861.
1460	Bunnell, L. S.....	Troy, N. Y.....	Pipe butts.....	June 4, 1861.
650	Burch, Lynn D.....	Sherburne, N. Y.....	Ploughs.....	Mar. 12, 1861.
39	Burchell, Richard B.....	Brooklyn, N. Y.....	Window-curtain fixture.....	Feb. 26, 1861;
			reissue.	
1506	Burd, Charles H.....	Roxbury, Mass.....	Telegraphic apparatus.....	June 11, 1861.
775	Burdett, O. W.....	Moorefield, Ohio.....	Removing sawdust as it is formed.....	Mar. 26, 1861.
2274	Burditt, Riley, assignor to Jacob Esteg and Hatsel P. Green.....	Brattleboro ² , Vt.....	Melodeons.....	Sept. 10, 1861,

1392	Burgess, Edward A., assignor to Blake Bros.	New Haven, Conn.	Cork extractor	May 21, 1861.
48	Burk, John, assignor to Jacob E. Buerk.	Schwenningen, Wurtemberg, Germany.	Watchman's time detector	Jan. 1, 1861.
2331	Burke, Patrick.	Helena, N. Y.	Method of setting posts.	Sept. 24, 1861.
58	Burleigh, M. C.	Somersworth, N. H.	Stoves	May 28, 1861.
1461	Burleigh, M. C.	Somersworth, N. H.	Moulding stove griddles	June 4, 1861.
947	Burlingame, A. A.	New York, N. Y.	Apparatus for making extracts under pressure.	April 9, 1861.
3	Burnett, Benajah J.	Mount Vernon, N. Y.	Refrigerator.	Jan. 1, 1861.
975	Burnett, William, assignor to Robert Burnett.	Boston, Mass.	Steam-pressure gauge	Jan. 29, 1861.
2058	Burnett, William, assignor to Robert Burnett.	Boston, Mass.	Pressure gauge	Aug. 13, 1861.
2127	Burnham, G., et al. (See Sellers, Coleman, assignor.)	Homer, N. Y.	Subsoil ploughs.	Aug. 27, 1861.
2563	Burnham, Wm. H. H., and Samuel B. Pierce.	Cedar Grove, Wis.	Washing machines	Oct. 29, 1861.
420	Burr, Theodore, assignor to self, Augustus Rower, and Parcel Brinkerhoff.	Battle Creek, Mich.	Life-preserving ships.	Feb. 13, 1861.
1019	Burr, Theodore, assignor to self, Augustus Rower, and Parcel Brinkerhoff.	Battle Creek, Mich.	Sewing machines	April 9, 1861.
1225	Burr, T., assignor to self, C. L. Burr, S. W. McCrea, and L. H. & P. Brinkerhoff.	Battle Creek, Mich.	Fracture apparatus	April 30, 1861.
522	Burrell, S. R., and S. L. Marsden. (See Marsden & Burrell.)	Yates City, Ill.	Grain-binding machines	Feb. 26, 1861.
2020	Burrows, W. A., and A. Odell. (See Odell & Burrows.)	Harvard, Mass.	Endless chains and tread of horse powers.	Aug. 6, 1861.
2024	Burson, W. W.	Harvard, Mass.	Horse powers.	Aug. 13, 1861.
2564	Burt, George E.	Plymouth, Ill.	Ploughs.	Oct. 29, 1861.
1597	Burt, George E.	Newburg, N. Y.	Horse hitching post.	June 18, 1861.
2510	Burton, James. (See Brown, Albert H., assignor.)	New York, N. Y.	Camp pan and bakers.	Oct. 22, 1861.
2819	Burton, James. (See Brown, A. H., assignor.)	Fall River, Mass.	Row-lock.	Dec. 3, 1861.
1676	Burton, N. F.	Philadelphia, Pa.	Machine for loading coal, &c.	July 2, 1861.
864	Burton, Robert, et al. (See Fowler, John, jr., et al.)	Yellow Springs, Ohio.	Clothes dryer.	April 2, 1861.
2422	Bury, W. A., and H. Gray. (See Gray & Bury.)	Norwalk, Conn.	Machinery for forming bats for felt cloth.	Oct. 8, 1861.
2631	Bush, Charles, assignor to self and Jas. Wygant.	New York, N. Y.	Breech-loading ordnance.	Nov. 5, 1861.
1234	Bush, Chauncey.	Philadelphia, Pa.	Breech-loading ordnance.	April 30, 1861.
1639	Bush, William D.	Providence, R. I.	Sash fastener.	April 16, 1861.
88	Bushor, Charles.	Providence, R. I.	Converting reciprocating into rotary motion.	July 9, 1861.
523	Buss, Ezra.	Dover, N. J.	Door locks.	June 4, 1861; reissue.
2820	Butcher, William, jr. (See Edward Brown Wilson, ass'r.)	New York, N. Y.	Fruit gatherers.	Feb. 26, 1861.
2821	Butler, Thomas B.	Pawtucket, R. I.	Braiding machines	Oct. 29, 1861.
507	Butler, W. H., and Thaddeus Selleck. (See Selleck & Butler.)	Providence, R. I.	Lamps	Dec. 3, 1861.
948	Butterfield, Eion B.	Portland, Me.	Lamps	Dec. 3, 1861.
1745	Butterfield, Jesse S.	Portland, Me.	Lamps	Feb. 19, 1861.
88	Butterfield, L. S., et al. (See Reister, Geo. H., assignor.)	Portland, Me.	Seeding machines	April 9, 1861.
523	Butterworth, James C.	Providence, R. I.		
1745	{ Butterworth, J. C., and	Providence, R. I.		
88	{ B. Arnold	East Greenwich, R. I.		
523	Byrn, Marcus L., and Geo. Clark.	New York, N. Y.		
2565	Cadwalader, E., et al. (See Reister, George H., assignor.)	New York, N. Y.		
2820	{ Cady, H. W., J. M. Carpenter, and	Pawtucket, R. I.		
2821	{ Gilman K. Winchester	Providence, R. I.		
507	Cahoon, Charles W.	Portland, Me.		
948	Cahoon, Charles W., assignor to James B. Cahoon	Portland, Me.		
	Cahoon, C. W.	Portland, Me.		

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
	Cain, C. L., and D. M. Gunn. (See Gunn & Cain.)			
1464	Cain, Shugar M., and William Stelfox.....	Austin, Texas.....	Cultivators.....	June 4, 1861.
1405	Caldwell, J. B.....	Chambersburg, Pa.....	Water wheels.....	May 25, 1861.
1040	Caidwell, Samuel & R. W.....	Chillicothe, Ohio.....	Cider mills.....	April 16, 1861.
2423	Calenberg, H. S.....	New York, N. Y.....	Piano-forte action.....	Oct. 8, 1861.
1175	Call, Amos.....	Springfield, Mass.....	Saw set.....	April 30, 1861.
1046	Call, J. H.....	Auburn, N. Y.....	Calipers.....	April 16, 1861.
1114	Callender, Mills L.....	New York, N. Y.....	Lamps.....	April 23, 1861.
2769	Callender, Mills L.....	New York, N. Y.....	Vapor lamps.....	Nov. 26, 1861.
104	Cameron, Joshua F.....	Livingston county, Mo.....	Subsoil ploughs.....	Jan. 15, 1861.
105	Cameron, Joshua F.....	Bedford, Mo.....	Devices for securing shields to ploughs.....	Jan. 15, 1861.
1462	Cameron, Samuel.....	Pittsburg, Pa.....	Spike machine.....	June 4, 1861.
22	Cameron, William.....	Petersburg, Va.....	Tobacco presses..... (Reissue.).....	Jan. 15, 1861.
23	Cameron, William.....	Petersburg, Va.....	Tobacco presses..... (Div. of do.).....	Jan. 15, 1861.
	Cameron, William. (See Lindsay, George, and William Cameron.)			
1970	Camp, E. H.....	Jackson, Mich.....	Hot-air furnace.....	Aug. 6, 1861.
1746	Camp, N. W.....	Trenton, N. J.....	Skates.....	July 9, 1861.
2332	Campbell, Charles F., assignor to self and Joseph Smethurst.	Chenango, N. Y.....	Machine for hulling, cleaning, and grinding grain.....	Sept. 24, 1861.
1226	Campbell, Edwin, assignor to William Heath.....	Bath, Maine.....	Edge key.....	April 30, 1861.
	Campbell, H. S., et al. (See Clow, Alexander, assignor.)			
58	Campbell, Leonard, assignor to L. Campbell and T. W. Brown.	Columbus, Miss.....	Cotton gins..... (Reissue.).....	April 2, 1861.
	Canaday, B. F. (See Haworth, B., assignor.)			
	Candee, L., et al. (See Munger, George, assignor.)			
	Canfield, J. L., et al. (See McCormick, J. J., assignor.)			
366	Cannon, John R.....	New Albany, Ind.....	Whips.....	Feb. 12, 1861.
	Carey, E. H., and D. F. Goodhue. (See Goodhue & Carey.)			
2333	Carey, George.....	Cleveland, Ohio.....	Processes of manufacturing white lead.....	Sept. 24, 1861.
1747	Carhart, Jeremiah.....	New York, N. Y.....	Propeller shield.....	July 9, 1861.
	Carner, Lewis A. (See Drennon, Samuel H., assignor.)			
	Carmichael, C. S., et al. (See Whitley, John H., assignor.)			
2750	Carner, Ambrose S.....	Brooklyn, N. Y.....	Camp chests.....	Nov. 19, 1861.
949	Carnes, Caroline H.....	New York, N. Y.....	Reels.....	April 9, 1861.
	Carpenter, James A. (See Ornisby & Sumner, assignors.)			
	Carpenter, J. M., et al. (See Cady, Carpenter & Winchester.)			
2861	Carpenter, Lewis R., assignor to self and Samuel K. Williams.	Lancaster, Ohio.....	Carriage brakes.....	Dec. 3, 1861.
	Carpenter, P. B., et al. (See Leffingwell, Charles H., assignor.)			
1966	Carpenter, Sophia, administratrix of William Carpenter, deceased.	Flushing, N. Y.....	Automatic fan and fly brush.....	July 30, 1861.
222	Carpenter, Tisdale.....	Providence, R. I.....	Steam-engines.....	Jan. 29, 1861.
	Carpenter, W. B., and A. Bassford, jr. (See Bassford & Carpenter.)			

1041	Carr, Adam	Paterson, N. J.	Low-water alarm for steam boilers	April 16, 1861.
1854	Carr, Nathan, jr., and John Carr	Monmouth, Ill.	Cultivators	July 23, 1861.
2066	Carr & Robertson. (See Reynolds, John P., assignor.)			
524	Carr, William S.	New York, N. Y.	Water-closets	Aug. 20, 1861.
70	Carter, C.	Franklin Centre, Iowa	Washing machine	Feb. 26, 1861.
	Carter, Egbert P.	China, N. Y.	Window sashes	Jan. 8, 1861.
	Carter, J. W., and A. M. George. (See George & Carter.)			
	Carter, M. E., and E. L. Jones. (See Jones & Carter.)			
	Carter, Orrin D. (See Leitch, J. F., assignor.)			
	Carter, Thomas. (See Marshall, E. A., assignor.)			
2470	Carton, John	Utica, N. Y.	Parlor heaters	Oct. 15, 1861.
2025	Case, George F.	New York, N. Y.	Sewing machines	Aug. 13, 1861.
1748	Case, John	Philadelphia, Pa.	Canteen	July 9, 1861.
1965	Case, Willington	Waterloo, Iowa	Strainer for coffee and tea pots	July 30, 1861.
525	Cassaday, Robert, and Samuel Clark	Buffalo, N. Y.	Snow ploughs	Feb. 26, 1861.
1677	Castor, Thomas	Philadelphia, Pa.	Opening railroad car doors	July 2, 1861.
1042	Caswell, John	Syracuse, N. Y.	Brick machines	April 16, 1861.
1043	Caswell, John	Syracuse, N. Y.	Brick machines	April 16, 1861.
292	Cate, Ebenezer	Franklin, N. H.	Horseshoe	Feb. 5, 1861.
776	Cate, Ebenezer	Franklin, N. H.	Device for forming horseshoes	Mar. 26, 1861.
777	Cate, Ebenezer	Franklin, N. H.	Formation of horseshoe iron	Mar. 26, 1861.
2979	Cauhaube, P.	New Lebanon, N. Y.	Making capsules of copaiva	Dec. 24, 1861.
	Caven, William, et al. (See Huntley, Hosea, assignor.)			
2128	Cavender, John	Milton, Ohio	Blacksmiths' hearth	Aug. 27, 1861.
2457	Chace, Henry W., assignor to Mervin R Chace	Fall River, Mass.	Curtain fixture	Oct. 8, 1861.
1957	Chadwick, Reuben	Nantucket, Mass.	Animal trap	July 30, 1861.
68	Chaffee, Charles S., assignor to the Bay State Glass Co.	East Cambridge, Mass.	Tumblers	June 25, 1861.
	Chaffee, W. H., and B. P. Foster. (See Foster & Chaffee.)			
2770	Chamberlain, Alfred C.	Newport, R. I.	Method of growing plants and fruits	Nov. 26, 1861.
	Chamberlain & Co. (See Huntley, Hosea H., assignor.)			
2759	Chamberlain, D. H., assignor to self and Alex. H. Twombly	West Roxbury, Mass.	Tubes for surface condensers	Nov. 19, 1861.
313	Chamberlin, F.	Berlin, Wis.	Seeding machines	Feb. 26, 1861.
1855	Chamberlin, Samuel W.	Stoneham, Mass.	Machine for polishing shoe and boot heels	July 23, 1861.
584	Chambers, Cyrus, jr.	Dalton, Ohio	Machines for pasting, cutting, and folding paper	Mar. 5, 1861.
2232	Chandler, Edward R.	Cambridgeport, Mass.	Blind fastener	Sept. 10, 1861.
	Chandler, George W., et al. (See Fuller, Willard M., ass'r.)			
2511	Chapman, W. Z. W. and J. W.	New York, N. Y.	Carriage curtain fastenings	Oct. 22, 1861.
1971	Chappell, J. W.	Loomisville, Mich.	Hand corn planters	Aug. 6, 1861.
1507	Chase Amos	North Weare, N. H.	Adjustable chair	June 11, 1861.
	Chase, Brother & Co. (See Mauran, Wm. A., assignor.)			
1176	Chase, Lucius C.	Boston, Mass.	Halter ring	April 30, 1861.
1270	Chase, L. C.	Boston, Mass.	Mode of stringing sleigh bells	May 14, 1861.
	Chase, North & North. (See Smith & Brown, assignors.)			
2566	Chase, Wesley	Buffalo, N. Y.	Camp chest and table combined	Oct. 29, 1861.
2873	Chateau, Louis Jaques	Paris, France	Machine for breaking the subsoil	Dec. 10, 1861.
2501	Chatfield, D. B., and S. M. Dutcher, assignors to Thomas Harrison	La Grange, Wis.	Water elevators	Oct. 15, 1861.
778	Chatfield, Thomas W.	Utica, N. Y.	Refrigerator	Mar. 26, 1861.
950	Chenowith, George E.	Baltimore, Md.	Raking attachment to harvesters	April 9, 1861.
147	Chesterman, William	Peosta, Iowa	Apparatus for evaporating saccharine juices	Jan. 22, 1861.
1972	Chichester, Henry S.	Brunswick, N. Y.	Ploughs	Aug. 6, 1861.
1115	Chickering, C. F.	New York, N. Y.	Square piano-fortes	April 23, 1861.
1749	Child, Richard S.	Philadelphia, Pa.	Utilization of coal tar	July 9, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
192	Chilson, Gardner	Boston, Mass.	Parlor stove (Design)	Nov. 5, 1861.
1750	Chilver, John	Jersey City, N. J.	Moulds for moulding pipes for plastic materials	July 9, 1861.
865	Christian, A.	New York, N. Y.	Rocking horse	April 2, 1861.
2180	Christensen, C.	Brooklyn, N. Y.	Rotary engines	Sept. 3, 1861.
37	Chubbuck, S. E., assignor to self and J. Y. and S. E. Chubbuck, jr.	Roxbury, Mass.	Steam radiators (Design)	April 30, 1861.
2471	Church, Benjamin S.	New York, N. Y.	Water metres	Oct. 15, 1861.
2512	Clancy, Thomas	Chicago, Ill.	Cutting trousers	Oct. 22, 1861.
	Clapp, J. B. (See Weight, Enoch, assignor.)			
	Clark <i>et al.</i> (See Johnston & Bartlett, assignors.)			
	Clark, Albert, and H. B. Middaugh. (See Middaugh & Clark.)			
1463	Clark, A. H.	Fond du Lac, Wis.	Shingle machines	June 4, 1861.
1347	Clark, Albert S.	Dryden, N. Y.	Sled brake	May 21, 1861.
1044	Clark, C. A.	Pulaski, Iowa.	Valves for pumps	April 16, 1861.
	Clark, Daniel, and Robert Cassaday. (See Cassaday & Clark.)			
	Clark, Edward C., <i>et al.</i> (See Post, Simeon S. and Andrew J., assignors.)			
1598	Clark, Franklin, assignor to self and N. Coones	Charlotte, N. Y.	Harvesting machines	June 18, 1861.
367	Clark, George, and Peter T. Elting	Sandusky, Ohio.	Bran dusters	Feb. 12, 1861.
	Clark, George, and Marcus L. Byrn. (See Byrn & Clark.)			
695	Clark, Hiram	Rochester, N. Y.	Skates	Mar. 19, 1861.
1973	Clark, James	Newark, N. J.	Retorts for the manufacture of prussiate of potass.	Aug. 6, 1861.
	Clark, Joseph B., administrator of David F. Smith. (See Smith, David F.)			
	Clark, J. R., and C. A. Shaw. (See Shaw & Clark.)			
2181	Clark, Levin P.	Baltimore, Md.	Hydrants	Sept. 3, 1861.
293	Clark, Nelson W.	Clarkston, Mich.	Journal boxes	Feb. 5, 1861.
368	Clark, Nelson W.	Clarkston, Mich.	Manufacture of salt	Feb. 12, 1861.
294	Clark, P. C.	Reading, Pa.	Fountain pens	Feb. 5, 1861.
344	Clark, P. J., assignor to S. S. Clark	West Meriden, Conn.	Skate fastenings	Feb. 5, 1861.
585	Clarke, Samuel	New York, N. Y.	Tuning pins for musical instruments	Mar. 5, 1861.
	Clark, Timothy	Redford, N. Y.	Safety apparatus for steam boilers (Extension)	Aug. 21, 1861.
	Clarke, J., and William Jackson. (See Jackson & Clarke.)			
	Clarke, William H., <i>et al.</i> (See Hobbs, Isaac H., assignor.)			
2472	Claude, Charles	Newark, N. J.	Lock	Oct. 15, 1861.
866	Clegg, John T., assignor to self and Henry Coulter.	Philadelphia, Pa.	Lamps	April 2, 1861.
1045	Clegg, Samuel	Putney, county of Surry, England.	Gas metres	April 16, 1861.
2567	Clemens, Stillman A.	Rockford, Ill.	Machines for sawing firewood	Oct. 29, 1861.
1271	Clement, William T.	Northampton, Mass.	Securing handles to hoes	May 14, 1861.
1751	Clifford, Neil	Brooklyn, N. Y.	Vapor lamps	July 9, 1861.
295	Clint, De Witt, and Ives Lynd.	Poestenkill, N. Y.	Machines for digging potatoes	Feb. 5, 1861.
2129	Clissold, William	Dudbridge, England	Driving belts	Aug. 27, 1861.
1177	{ Clough, Isaac S., and Samuel S. Day	Brooklyn, N. Y.	Boot and pantaloen jack	April 30, 1861.
1116	Clough, James L.	New York, N. Y.		
		Suffield, Conn.	Floor clamp	April 23, 1861.

1097	Clow, Alexander, assignor to self and H. S. Campbell.	Waterford, Pa.	Bee hives.	April 16, 1861.
1046	Clum, Henry A.	Auburn, N. Y.	Barometer.	April 16, 1861.
536	Cluxton, John A.	Bentonville, Ohio.	Grain measurer and register.	Feb. 23, 1861.
9233	Cobb, G. P., and R. Daniels. (See Daniels & Cobb.)	Lowell, Mass.	Window sash fastener.	Sept. 10, 1861.
2182	Coburn, John H.	Richmond, Ind.	Mode of measuring and sacking grain.	Sept. 3, 1861.
1407	Cochran, D. M.	Milford, N. H.	Washing machine.	May 28, 1861.
1958	Cochran, John D.	Milford, N. H.	Straw and hay cutters.	July 30, 1861.
296	Cochran, John D.	New York, N. Y.	Rolling iron shutters.	Feb. 5, 1861.
1816	Cochrane, John S.	Augusta, Mich.	Cheese press.	July 16, 1861.
2569	Codding, C. A.	Kalamazoo, Mich.	Ploughs.	Oct. 29, 1861.
586	Codding, R., and D. McCall.	Dalton, Ohio.	Vessels for evaporating saccharine juices.	Mar. 5, 1861.
1804	Code, Hopper & Gratz. (See Roberts, Edward, assignor.)	Rome, N. Y.	Vapor lamps.	July 9, 1861.
71	Coe, B., and M. Goon.	Worcester, Mass.	Machine for grinding heads of screw wrenches.	Jan. 8, 1861.
297	Coe, Carlos C., assignor to self and George S. Cottman.	Indianapolis, Ind.	Dovetailing machines.	Feb. 5, 1861.
1157	Coe, Edward. (See Stoddard, F. S., assignor.)	Johnston, R. I.	Lanterns.	April 23, 1861.
2980	Coes, Loring and Aury G.	Philadelphia, Pa.	Coverings for the head.	Dec. 24, 1861.
148	Coffin, Eleazer	Newark, N. J.	Evaporator for hot-air pipes.	Jan. 22, 1861.
60	Coffin, E. B., assignor to self and A. H. Sylvester.	Newark, N. J.	Evaporator for hot-air pipes. (Reissue)	April 2, 1861.
2290	Cohen, M. D.	Folsom City, Cal.	Mode of turning locomotives.	Sept. 17, 1861.
2275	Cohenour, John. (See Myers, Charles K., assignor.)	New York, N. Y.	Machine for cutting veneers.	Sept. 10, 1861.
2334	Coit, C. T., and J. S. Gauson. (See Gauson & Coit.)	Reed, Ohio.	Approach opening gate.	Sept. 24, 1861.
1465	Colburn, G. F. J.	Binghamton, N. Y.	Washing machine.	June 4, 1861.
1678	Colburn, G. F. J.	Buffalo, N. Y.	Steam boilers.	July 2, 1861.
1553	Cole, Gilbert M.	Boston, Mass.	Mode of securing bottoms to stills.	June 18, 1861.
2275	Cole, Isaac J., assignor to S. B. Wilson	Attica, N. Y.	Corn planters.	May 28, 1861.
2334	Cole, W. T.	Sardinia, N. Y.	Spokeshave.	June 25, 1861.
1465	Collender & Phelan. (See Froelich, Ch., assignor.)	Baltimore, Md.	Bee hives.	Dec. 3, 1861.
1678	Collier, H. M.	Duquoin, Ill.	Corn planters.	Jan. 8, 1861.
1553	Colligan, Frank	Morrisville, Pa.	Sewing machines.	May 7, 1861.
1408	Collins, Joseph G.	Milwaukee, Wis.	Rotary cultivators.	Feb. 26, 1861.
1408	Colton, Aaron	Milwaukee, Wis.	Propelling wheels.	April 30, 1861.
1613	Colton, Martin	New York, N. Y.	Device for protecting the hull of vessels from cannon balls.	April 23, 1861.
2822	Colver, Allen M. (See Johnson, Chester L., assignor.)	Oneida, Ill.	Cultivators.	May 28, 1861.
2822	Colvin, Richard	Milmore, Ohio.	Machine for curvilinear sawing.	Aug. 6, 1861.
72	Combs, William	Newark, Ohio.	Water elevators.	Jan. 1, 1861.
1235	Comfort, Samuel J.	New York, N. Y.	Machine for digging potatoes.	April 30, 1861.
527	Comstock, Cicero	New York, N. Y.	Street sweeping machines.	April 16, 1861.
1178	Comstock, Cicero, and Carlos Glidden	New York, N. Y.	Street sweeping machines.	Oct. 29, 1861.
1117	Comstock, George R. (See Ransom, A., assignor.)			
1409	Comtesse, Francis			
1974	Condict, Nat an W., jr. (See Stevens, Wm. J., assignor.)			
1409	Cone, T. S., and H. S. Potter			
1974	Conger, Enoch			
4	Conklin, Henry R., and Peter W. Neefus. (See Short, Joseph, assignor.)			
1179	Connel, J. M.			
1047	Connel, J. M., et al. (See Gamble, D. R., assignor.)			
2568	Conover, J. A., and B. P. Crandell. (See Crandall & Conover.)			
1179	Conover, S. B., and Marshall Spring			
1047	Conrath, S., and F. Boissard. (See Boissard & Conrath.)			
2568	Conroy, Loughlin			
	Conroy, L.			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
528	Converse, Rufus J.	Coventry, N. Y.	Washing machines	Feb. 26, 1861.
1679	Converse, William F.	Harrison, Ohio	Bed bottom	July 2, 1861.
2291	Conway, William H.	Harrison, Md.	Gaff for vessels' sails	Sept. 17, 1861.
1466	Cook, Francis E.	Guilford, Ohio	Machine for hulling and cleaning clover seed	June 4, 1861.
1410	Cook, George	Bristol Station, Ill.	Portable capstans	May 28, 1861.
2570	Cook, George H.	New Brunswick, N. J.	Mode of separating compounds of iron from the water of salt wells or springs.	Oct. 29, 1861.
2513	Cook, Henry	Manchester, Eng.	Hoop skirts. (Patented in England Oct. 25, 1860.)	Oct. 22, 1861.
2690	Cook, Ransom	Saratoga Springs, N. Y.	Fan blower	Nov. 12, 1861.
2689	Cook, Ransom	Saratoga Springs, N. Y.	Exhaust fan	Nov. 12, 1861.
1348	Cook, W. C.	Appleton, Wis.	Bed spring	May 21, 1861.
59	Cooke, C. W.	Waterloo, N. Y.	Balmoral skirt. (Design)	May 28, 1861.
2671	Cooke, James C., assignor to William Wilcox & Co.	Middletown, Mass.	Liquid metres	Nov. 5, 1861.
696	Cooley, John	Tafton, Wis.	Corn planters	Mar. 19, 1861.
2514	Cooley, Truman	Brookport, N. Y.	Feathering paddle-wheels	Oct. 22, 1861.
	Coones, N., et al. (See Clark, Franklin, assignor.)			
1975	Cooper, Charles W.	Brooklyn, N. Y.	Manufacture of glue	Aug. 6, 1861.
149	Cooper, George	Thompsonville, Conn.	Needles	Jan. 22, 1861.
780	Cooper, George M.	Litchfield, Mich.	Press for packing wool	Mar. 26, 1861.
1048	Cooper, George W.	Palmyra, N. Y.	Ploughs	April 16, 1861.
369	Cooper, Howell	Watertown, N. Y.	Heater for cheese vats	Feb. 12, 1861.
1272	Cooper, Ira	Saybrook, Ohio	Cultivators	May 14, 1861.
951	Cooper, Joseph B.	Brooklyn, N. Y.	Ploughs	April 9, 1861.
1411	Cooper, Lewis	Philadelphia, Pa.	Sewing machines	May 28, 1861.
1976	Cooper, Samuel D.	Hartford, Conn.	Fire-alarm apparatus	Aug. 6, 1861.
697	Cope, N., and William Hodgson	Cincinnati, Ohio	Valve	Mar. 19, 1861.
99	Cope, Nathan, and William Hodgson	Cincinnati, Ohio	Butterfly valves. (Reissue)	July 2, 1861.
952	Copeland, George	North Gray, Maine	Looms	April 9, 1861.
436	Copeland, Salem	Worcester, Mass.	Guards or fingers for reaping or mowing machines	Feb. 19, 1861.
867	Copeley, Humphrey E.	Waterbury, Conn.	Photographic medals	April 2, 1861.
1906	Coppage, Francis C., assignor to Judson R. Osgood, Samuel F. Smith, and Samuel Allamon.	Terre Haute, Ind.	Machine for turning plough-handles	July 23, 1861.
651	Corduan, Joseph	Brooklyn, N. Y.	Lining journal boxes	Mar. 12, 1861.
1349	Cornelius, Robert	Philadelphia, Pa.	Electrophorus	May 21, 1861.
1350	Cornelius, Robert	Philadelphia, Pa.	Frictional electric machine	May 21, 1861.
1467	Cornelius, Robert	Philadelphia, Pa.	Method of lighting gas by electricity	June 4, 1861.
	Cornell, Samuel G.	Buffalo, N. Y.	Lead-pipe machinery. (Extension)	Aug. 12, 1861.
	Cornell, M., et al. (See Smoote, Wm. H., assignor.)			
	Cornen, Peter P. (See Mackay, Walter G., assignor.)			
3030	Corner, Edwin	Columbus, Ohio	Beehives	Dec. 24, 1861.
	Corse, A. C., and J. Shavor. (See Shavor & Corse.)			
1817	Corser, G. A., and A. O. Bundy	Clappville, Mass.	Skate	July 16, 1861.
2234	Cory, C.	Lima, Ind.	Apparatus for evaporating saccharine fluids	Sept. 10, 1861.
1614	Cory, John F.	New York, N. Y.	Bit-stock	June 25, 1861.
	Cottman, et al. (See Carlos C. Coe, assignor.)			

1856	Couch, M. G.	Odessa, N. Y.	Machines for raking and loading hay	July 23, 1861.
	Coulter, Henry. (See Clegg, John T., assignor.)			
781	Cowan, B. F.	Memphis, Tenn.	Fire-places	Mar. 26, 1861.
	Cowles, Sidney, and Edward Smith. (See Smith & Cowles.)			
70	Cox, George A.	Brooklyn, N. Y.	Formers for bonnet fronts	April 23, 1861.
2118	Cox, Henry F., and Alexander Miller, assignors to Henry F. Cox.	Jersey City, N. Y.	Machinery for cutting corks	Aug. 20, 1861.
698	Cox, John, and John A. Throp	Three Rivers, Mich.	Cultivators	Mar. 19, 1861.
2515	Cox, S. W., and J. H. Trowbridge	New Haven, Conn.	Trace fastening	Oct. 22, 1861.
	Cox, Whiteman & Cox. (See Smith & Brown, assignors.)			
	Cox, Woodward & McCord. (See McCord, Wm., assignor.)			
437	{ Cragg, J., and	Baltimore, Md.	Surface condensers for steam-engines, &c.	Feb. 19, 1861.
	{ Samuel Arehbold	Washington, D. C.		
2473	Craig, William	Binghamton, N. Y.	Cut-off for oscillating engine	Oct. 15, 1861.
1236	Craig, Waldo P.	Newport, Ky.	Cotton press	May 7, 1861.
869	Cramer, James A.	Brooklyn, N. Y.	Boxes for carriage hubs	April 2, 1861.
868	Crandall, B. P., and J. A. Conover	New York, N. Y.	Children's carriages	April 2, 1861.
106	Crandall, Jesse A.	New York, N. Y.	Perambulators or children's carriages	Jan. 15, 1861.
298	Crandall, Jesse A.	New York, N. Y.	Rocking horse	Feb. 5, 1861.
567	Crandall, J. A., assignor to Mary Crandall	New York, N. Y.	Toy horse	Feb. 26, 1861.
1118	Crane, Albert O.	Hoboken, N. J.	Boots and shoes	April 23, 1861.
	Crane, H. M. (See Hargraves, T. C., assignor.)			
1977	Crane, Isaac C.	Bronson, Mich.	Spading machines	Aug. 6, 1861.
2458	Crane, Moses G., assignor to Edward G. Rogers	Roxbury, Mass.	Tower clocks	Oct. 8, 1861.
1818	Crane, Samuel G.	Rochester, N. Y.	Combination of camp bed and chair	July 16, 1861.
1978	Crapo, Philip & Henry E.	Bridgewater, Mich.	Hoes	Aug. 6, 1861.
870	Crawford, Benjamin	Pittsburg, Pa.	Arrangement of feedwater heater pipes of steam-engines	April 2, 1861.
	Crawley, C., and J. Goodspeed. (See Goodspeed & Crawley.)			
652	Creager, Jonathan	Cincinnati, Ohio	Machines for turning irregular forms	Mar. 12, 1861.
2667	Creamer, William G.	Brooklyn, N. Y.	Ventilator for railroad cars	Aug. 20, 1861.
	Creasy, F., and William W. Austin. (See Austin & Creasy.)			
2235	Creager, Dewitt C.	Chicago, Ill.	Hydrants	Sept. 10, 1861.
	Creswell, Samuel James. (See Kneass Strickland, assignor.)			
1591	Orewzbaur, Robert	Travis county, Texas.	Air chamber	June 18, 1861.
871	Crites, Jonah	Orville, Ohio.	Horse rakes	April 2, 1861.
1907	Crocker, Horace T., assignor to self and W. H. Barnes	New London, Conn.	Steam pressure gauge	July 23, 1861.
782	Cromelien, Rowland	New York, N. Y.	Railroads	Mar. 26, 1861.
1119	Crompton, George	Worcester, Mass.	Looms	April 23, 1861.
2516	Crompton, George	Worcester, Mass.	Looms	Oct. 22, 1861.
699	Cronk, Munson C.	Auburn, N. Y.	Bottle stoppers	Mar. 19, 1861.
2026	Cronk, M. C.	Auburn, N. Y.	Churns	Aug. 13, 1861.
1351	Crooke, John J.	New York, N. Y.	Manufacture of tin foils	May 21, 1861.
	Crosby, Barlow & Renton. (See Renton, Crosby & Barlow.)			
2571	Crosby, R. R., and J. Harris	Boston, Mass.	Clothes wringer	Oct. 29, 1861.
2474	Crose, George G.	Schoolcraft, Mich.	Device for making corn furrows	Oct. 15, 1861.
2236	Cross, A. S.	Ripon, Wis.	Planes	Sept. 10, 1861.
1959	Crossett, Truman	North San Juan, Cal.	Machine for drilling rocks	July 30, 1861.
1352	Crowell, Henry G.	Roxbury, Mass.	Pumps	May 21, 1861.
438	Cumberland, William W.	Newark, N. J.	Hat blocks	Feb. 19, 1861.
783	Cummings, G. N.	Meriden, Conn.	Stilts	Mar. 26, 1861.
	Cummings, G. W., and J. A. Benedict. (See Benedict & Cummings.)			
568	Cummings, Perley D., assignor to D. H. Furbish	Portland, Maine	Sowing machines	Feb. 20, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2130	Curran, James.	Kirkwood, N. Y.	Application of brakes to driving wheels of head powers . . .	Aug. 27, 1861.
	Currier, H. M., et al. (See Stevens, Joseph, assignor.)			
2691	Currier, James M.	Newburyport, Mass.	Substitute for pins in bowling alleys.	Nov. 12, 1861.
2313	Curtis, Frederick, assignor to Edward H. Ashcroft and John B. Alley.	Newton, Mass.	Breech-loading fire-arms.	Sept. 17, 1861.
1158	Curtis, George S., assignor to self and Thomas B. Bryan . .	Chicago, Ill.	Skate fastenings	April 23, 1861.
953	Curtis, H., and A. Tufts	Charlestown, Mass.	Door alarm.	April 9, 1861.
1658	Custer, J. D., assignor to William McViece	Norristown, Pa.	Cutting saw teeth.	June 25, 1861.
653	Cutting, J. A.	Boston, Mass.	Aquariums.	Mar. 12, 1861.
1615	Cutler, Abner, and N. Jenkins	New York, N. Y.	Toy pistols.	June 25, 1861.
	Cutler, Abner, and T. A. Jebb. (See Jebb & Cutler.)			
1353	Cutler, Calvin	Tonawanda, N. Y.	Device for hiving bees	May 21, 1861.
	Cutler, Tower & Co. (See Tower, Levi L., assignor.)			
1180	Cutler, William D.	Millbury, Mass.	Shearing sheep skins.	April 30, 1861.
	Cutts, Alonzo K., et al. (See Nash, Jefferson, assignor.)			
	Cutts, Alonzo K. (See Nash, Jefferson, assignor.)			
2027	Dagron, René P. P.	Paris, France	Portable microscopes.	Aug. 13, 1861.
1979	Dahlgren, John A.	Philadelphia, Pa.	Cast-iron ordnance.	Aug. 6, 1861.
1980	Dahlgren, John A.	Philadelphia, Pa.	Cast-iron ordnance.	Aug. 6, 1861.
1981	Dahlgren, John A.	Philadelphia, Pa.	Cast-iron ordnance.	Aug. 6, 1861.
1982	Dahlgren, John A.	Philadelphia, Pa.	Projectiles for rifled ordnance.	Aug. 6, 1861.
2068	Dalton, H. N.	Jacksonville, Cal.	Seeding machines.	Aug. 20, 1861.
1237	Dalton, Joseph	Brooklyn, N. Y.	Knitting machines.	May 7, 1861.
	Dalzell & Bennett. (See Bennett & Dalzell.)			
	Damm, Jacob, and E. J. Gerdom. (See Gerdom & Damm.)			
	Damon, Lyman E., et al. (See Johnson, Stephen, assignor.)			
	Dane, Osgood, et al. (See Bridgman, George W., assignor.)			
1680	Danforth, D. A., and William A. Wilkinson.	Elkhart, Ind.	Stump extractors	July 2, 1861.
1181	Daniels, Commodore	Barnwell C. H., S. C.	Apparatus for training horses or mules to rack.	April 30, 1861.
954	Daniels, Ezekiel.	Oswego, N. Y.	Fracture bedsteads.	April 9, 1861.
150	Daniels, Reuben.	Woodstock, Vt.	Machines for reducing fibrous materials.	Jan. 23, 1861.
654	Daniels, R., and G. P. Cobb	Woodstock, Vt.	Bee hives.	Mar. 12, 1861.
345	Daniels, Phylander, assignor to self and S. H. Barnes. . . .	Le Roy, N. Y.	Tanning leather.	Feb. 5, 1861.
1120	Danks, John.	Troy, N. Y.	Burners for purifying gas.	April 23, 1861.
2292	Darby, Asa L.	White Creek, N. Y.	Mowing machines.	Sept. 17, 1861.
1468	Dare, George.	Auburn, N. Y.	Mode of hanging window sash.	June 4, 1861.
1960	Dare, Thomas.	Osceola, Iowa.	Culinary boiler.	July 30, 1861.
223	Darling, Fenner	North Blackstone, Mass.	Pockets of wearing apparel.	Jan. 29, 1861.
2069	Dasecomb, Charles H.	Cleveland, Ohio.	Game and seat combined.	Aug. 20, 1861.
	Daskam, Samuel. (See Rogers, Isaac, assignor.)			
1032	Davidson, Hunter.	United States navy.	Hook for attaching and detaching boats from their davits. .	April 9, 1861.
2517	Davies, Henry.	Portsmouth, Ohio.	Apparatus for heating air for blast furnaces, &c.	Oct. 22, 1861.
25-2	Davies, Henry.	Portsmouth, Ohio.	Swings.	Oct. 29, 1861.
2771	Davis, Alexander S.	Boston, Mass.	Mode of attaching blocks to belts of printing apparatus . .	Nov. 26, 1861.
530	Davis, Augustus B.	Philadelphia, Pa.	Scale beams.	Feb. 26, 1861.

529	Davis, Augustus B.	Philadelphia, Pa.	Weighing apparatus.	Feb. 26, 1861.
2393	Davis, Augustus B.	Philadelphia, Pa.	Platform scales.	Sept. 17, 1861.
2070	Davis, Albert R.	Syracuse, N. Y.	Spoke machines.	Aug. 20, 1861.
587	Davis, E., and Alonzo Palmer.	Hudson, Mich.	Grain separators.	Mar. 5, 1861.
2551	Davis, John, assignor to Patrick H. Flood.	Elmira, N. Y.	Hold-back for carriages and other vehicles.	Oct. 22, 1861.
421	Davis, Joseph, assignor to self and Jesse A. Locke.	East Wilton, N. H.	Carding machines.	Feb. 12, 1861.
2968	Davis, Joseph, assignor to J. Noone and William Earl, jr.	Wilton, N. H.	Carding engines.	Dec. 17, 1861.
	Davis, S., and C. F. Anderson. (See Anderson & Davis.)			
1857	Davis, S. M., assignor to Andrew L. Haskell.	Lawrence, Mass.	Tents.	July 23, 1861.
224	Davis, T. G., and J. Punchus.	Elkhart, Ind.	Stump extractors.	Jan. 29, 1861.
2823	Davis, Theodore D.	Syracuse, N. Y.	Mode of attaching carriage shafts.	Dec. 3, 1861.
299	Davis, Thomas S.	Jersey City, N. J.	Pistons and piston-valves for steam-engines.	Feb. 5, 1861.
1049	Dawson, John S.	Cranberry, N. J.	Faucets.	April 16, 1861.
784	Dawson, E. S., and A. Weeks.	Syracuse, N. Y.	Omnibus register.	Mar. 26, 1861.
955	Dawson, William L.	Lynchburg, Va.	Soaps.	April 9, 1861.
2692	Day, Lloyd, and Milton and.	Carroll county, Md.	Railroad rails.	Nov. 12, 1861.
	Andrew Mercer.	Howard county, Md.		
	Day, Samuel S., and Isaac S. Clough. (See Clough & Day.)			
1238	Dean, George R.	Mayville, N. Y.	Printing press.	May 7, 1861.
	Dean, J. E. P., et al. (See Munger, George, assignor.)			
3031	Dean, John.	Worcester, Mass.	Mats for daguerreotypes, &c.	Dec. 24, 1861.
1401	De Barry, Julius.	Germany.	Cigar machines. (Patented in England, November 1, 1859).	May 28, 1861.
2131	De Bassans, E., and A. Brudenn.	France.	Manufacture of stearic acid.	Aug. 27, 1861.
1440	De Bolle, John M., assignor to self and Andrew J. Husted and Edwin Hand.	Philadelphia, Pa.	Valves for hose-pipes.	May 28, 1861.
3020	De Brame, J. A., assignor to self and Jeremiah Gurney.	New York, N. Y.	Revolving ordnance.	Dec. 24, 1861.
1020	De Brame, J. A., assignor to self and Benj. Gurney.	New York, N. Y.	Skates.	April 9, 1861.
1105	De Brame, J. A.	New York, N. Y.	Baby-jumper.	April 16, 1861.
1491	De Brame, J. A., assignor to self and Benj. Gurney.	New York, N. Y.	Skates.	June 4, 1861.
1681	De Brame, J. A.	New York, N. Y.	Fire arms.	July 2, 1861.
3021	De Brame, J. A., assignor to self and Jeremiah Gurney.	New York, N. Y.	Breech-loading ordnance.	Dec. 24, 1861.
	Decamp, J., and L. Lelong. (See Lelong & Decamp.)			
1412	Decker, Frederick.	Ostrander, Ohio.	Clover harvesters.	May 28, 1861.
1050	Deckmann, William.	Canton, Ohio.	Hay rakes.	April 16, 1861.
107	De Forest, Thomas B.	Birmingham, Conn.	Instrument for cleaning lamp chimneys.	Jan. 15, 1861.
872	De Forest, Thomas B.	Birmingham, Conn.	Skirts.	April 2, 1861.
956	De Forest, Thomas B.	Birmingham, Conn.	Thread winding guides.	April 9, 1861.
	De Garmo, D., and J. Rulofson. (See Rulofson & De Garmo.)			
2672	Degener, Fred. Otto, assignor to self and Peter Weiler.	New York, N. Y.	Cylinder printing press.	Nov. 5, 1861.
2824	Degenhardt, G. C. Louis.	Tresckow, Pa.	Apparatus for purifying acid water for steam boilers.	Dec. 3, 1861.
370	De Graw, Henry N.	Green Island, N. Y.	Boatjack.	Feb. 12, 1861.
	Deihm, John R., and Jasper Snell. (See Snell & Deihm.)			
2475	De La Montanya, M.	San Francisco, Cal.	Blacksmith's portable forge.	Oct. 15, 1861.
1961	Delaire, George Ernest Camille.	Paris, France.	Analine colors.	July 30, 1861.
2913	Delastatius, Alfred, assignor to Andrew Rankin.	Philadelphia, Pa.	Manacles.	Dec. 10, 1861.
2874	De Long, John.	Munroe, Wis.	Washing machine.	Dec. 10, 1861.
1752	De Maniquet, J. A.	Paris, France.	Machines for twisting silk.	July 9, 1861.
1962	Dement, John.	Dixon, Ill.	Ploughs.	July 30, 1861.
647	Deming, H. D., and P. G. Walker, assignors to P. G. Walker and Wesley Pitts.	Delmar, Pa.	Animal traps.	Mar. 5, 1861.
2923	Denham, David.	Virden, Ill.	Portable field fence.	Dec. 17, 1861.
439	Denison, C. H.	Brattleboro', Vt.	Felloe machine.	Feb. 19, 1861.
2573	Denison, C. H.	Brattleboro', Vt.	Mode of attaching hubs to axles.	Oct. 29, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2924	Dennis, J. H.	Louisville, Ky.	Mode of collecting fares on street railroads.	Dec. 17, 1861.
2972	Dennis, J. H.	Louisville, Ky.	Equalizing beams and levers in railroad cars.	Nov. 26, 1861.
2335	Dennis, William	Providence, R. I.	Composition for soap.	Sept. 24, 1861.
5	Dennison, A. L.	Waltham, Mass.	Watches.	Jan. 1, 1861.
757	Depew, George W., assignor to Horton, Depew & Son.	Peekskill, N. Y.	Ploughs.	Mar. 19, 1861.
579	Derr, Daniel.	Belefonte, Pa.	Railroad car brakes.	Feb. 26, 1861.
1753	Derrom, Andrew.	Paterson, N. J.	Portable hut.	July 9, 1861.
1754	Devlan, P. S.	Elizabethport, N. J.	Car brakes.	July 9, 1861.
103	Devlan, Patrick S.	Elizabethport, N. J.	Journal boxes.	July 9, 1861.
104	Devlan Patrick, S.	Elizabethport, N. J.	Journal boxes (Reissue)	July 9, 1861.
	Devoe, Reynolds & Pratt. (See Jas. F. Drummond, ass'r.)	Elizabethport, N. J.	Journal boxes (Div. of reissue)	July 9, 1861.
1616	Dewey, Augustus W.	Boston, Mass.	Water elevators.	June 25, 1861.
1983	Dexter, Elisha	Holmes's Hole, Mass.	Refrigerators.	Aug. 6, 1861.
	Dexter, L., jr., and J. Gorham and G. Thurber. (See Gorham, Thurber & Dexter.)			
	Dexter, L., jr., and J. Gorham and G. Thurber. (See Gorham, Thurber & Dexter.)			
	Dexter, L., jr., and J. Gorham and G. Thurber. (See Gorham, Thurber & Dexter.)			
	De Zeyk, Albert J., et al. (See Kollinsky, Ehrlich & De Zeyk.)			
6	Diablogue, John H.	Camden, N. J.	Valve motion for steam-engines.	Jan. 1, 1861.
1682	Dibben, Frank	New York, N. Y.	Method of amalgamating ores of the precious metals.	July 2, 1861.
873	Dice, Samuel S.	Stark county, Ohio	Cross-cut sawing machines.	April 2, 1861.
785	Dick, Alexander	Buffalo, N. Y.	Bread slicer.	Mar. 26, 1861.
14	Dickerman, Eliot.	Richmond, Vt.	Clothes wringer. (Reissue)	Jan. 8, 1861.
2071	Dickerman, Eliot.	Middlefield, Conn.	Clothes frame.	Aug. 20, 1861.
2825	Dickey, Julius C.	Saratoga Springs, N. Y.	Machinery for crushing and pulverizing quartz.	Dec. 3, 1861.
225	Dickinson, Charles G.	Poughkeepsie, N. Y.	Harvesters.	Jan. 29, 1861.
2875	Dickinson, H. H.		Attachment to kerosene lamps.	
2183	Dickinson, John.	Brooklyn, N. Y.	Diamond protector for dressing millstones.	Sept. 3, 1861.
2184	Dickinson, John.	Brooklyn, N. Y.	Mounting glaziers' diamonds.	Sept. 3, 1861.
	Dickinson, John.	Brooklyn, N. Y.	Grooved rule and self-adjusting diamond for cutting glass.	Oct. 1, 1861.
	Dickinson, R., and Joseph C. Fuller. (See Jennings, Lewis, assignor.)			
1984	Deihl, Jacob, and William Wilson	Brooklyn, Ohio.	Cider mills.	Aug. 6, 1861.
786	Dilts, Milton	Columbia City, Ind.	Water wheels.	Mar. 26, 1861.
655	Dimpfel, F. P.	Philadelphia, Pa.	Friction gearing for machinery.	Mar. 12, 1861.
311	Dinsmore, J. V.	Auburn, Me.	Metallic heels for boots and shoes. (Additional imp't)	Jan. 15, 1861.
7	Dittridge, Edward	Pittsburg, Pa.	Pots for glass making.	Jan. 1, 1861.
2424	Dittridge, Edward and Edward D.	Pittsburg, Pa.	Lamp chimney.	Oct. 8, 1861.
2632	Dixon, A. H.	San Francisco, Cal.	Grain separators.	Nov. 5, 1861.
151	Doane, N. E.	Hannibal, Mo.	Weighing carts or wagons.	Jan. 22, 1861.
2394	Dobbs, John	Albany, N. Y.	Paper-ruling machines.	Sept. 17, 1861.
	Dodd, A. S. (See Bartram, Walker B., assignor.)			

2826	Dodge, George H.	Camden, N. J.	Hinges	Dec. 3, 1861.
	Dodge, Hezekiah. (See Rice, Samuel G., assignor.)			
1098	Dodge, James, assignor to self and David Blake	Waterford, N. Y.	Hardening saw plates	April 16, 1861.
	Dodge, Jacob L. (See Morrisett, James J., assignor.)			
	Dodge, Jacob L. (See Morrisett, James J., assignor.)			
656	Dodge, Levi	Waterford, N. Y.	Forming and punching articles of irregular form	Mar. 12, 1861.
923	Dodge, Levi, assignor to self and David Blake	Cohoes, N. Y.	Shear for the manufacture of axes	April 2, 1861.
440	Dodge, Paul F. and William S.	West Cambridge, Mass.	Taking photographic pictures by artificial light	Feb. 19, 1861.
516	Dodge, Thomas H.	Washington, D. C.	Mowing machines	Feb. 19, 1861.
1163	Dodge, Thomas H.	Washington, D. C.	Letter paper	April 23, 1861.
	Dodge, Thomas H. (See Kells, P. H., assignor.)			
	Dodge, Thomas H. (See Kells, P. H., assignor.)			
	Dodge, Thomas H. (See Kells, P. H., assignor.)			
	Dodge, Thomas H. (See Kells, P. H., assignor.)			
	Dodge, Thomas H. (See Bartlett, S. S., assignor.)			
	Dodin, Joseph, and J. O. Whitcomb. (See Whitcomb, J. O., assignor)			
371	Dodsworth, Robert	St. Louis, Mo.	Hemp brakes	Feb. 12, 1861.
1819	Doig, A.	Brooklyn, N. Y.	Cooling frictional surfaces	July 16, 1861.
8	Dolbear, Caleb H.	Boston, Mass.	Lamps	Jan. 1, 1861.
441	Donaldson, Richard	Mount Nebo, Pa.	Lime-kilns	Feb. 19, 1861.
	Donnell, G. W., et al. (See Wheeler, Grant J., and others.)			
372	Doolittle, O., and N. Eldridge.	Dansville, N. Y.	Ditching machines	Feb. 12, 1861.
	Dorsey, Bibb & Needham. (See Bibb, Needham & Dorsey.)			
1239	Dotterer, Davis H.	Memphis, Tenn.	Journal boxes	May 7, 1861.
1413	Doty, James and Asa H.	West Falls, N. Y.	Washing machine	May 25, 1861.
588	Doubleday, William E., and Samuel H. Lyon	Brooklyn, N. Y.	Die for pressing hats	Mar. 5, 1861.
	Doubleday, William E., and Samuel H. Lyon. (See Lyon & Doubleday.)			
2574	Doudna, L. M.	Amberst, N. H.	Hand mowing machines	Oct. 29, 1861.
2185	Dougal, David, and William Truxal.	Butler, Pa.	Bee hives	Sept. 3, 1861.
1755	Dougherty, Andrew	New York, N. Y.	Machines for damping paper	July 9, 1861.
90	Dougherty, Andrew	Brooklyn, N. Y.	Cards	July 23, 1861.
	Dougherty, John B., and J. H. Lawler. (See Lawler & Dougherty.)			
2465	Doughty, James H.	Adamsville, Ohio.	Churns	Oct. 8, 1861.
1820	Doughty, John W.	New York, N. Y.	Feed-water apparatus for steam boilers	July 16, 1861.
2295	Douglas, Benjamin.	Middletown, Conn.	Pumps	Sept. 17, 1861.
	Douglas, W. and B. (See Lane, John W., assignor.)			
1508	Douglass, Darwin De Forest.	Springfield, Mass.	Window blinds	June 11, 1861.
1933	Douglass, William	Westport, Mo.	Hand corn planters	July 30, 1861.
	Dow, Lorenzo, and Algernon K. Johnson. (See Johnson & Dow.)			
874	Downer, A. H.	New York, N. Y.	Hemmer and finger shield for hand sewing	April 2, 1861.
2575	Downing, Noah	Brooklyn, N. Y.	Safety belts	Oct. 29, 1861.
2876	Dows, Gustavus D.	Boston, Mass.	Soda apparatus combined with an ice cutter	Dec. 10, 1861.
73	Doyle, John James	New York, N. Y.	Hoisting device	Jan. 8, 1861.
1756	Doyle, L. H.	Waterloo, Iowa	Cultivators	July 9, 1861.
1121	Drake, Eli P.	Greenbush, N. Y.	Boring machine	April 23, 1861.
	Drake, William F., et al. (See Hall, Ezra G., assignor.)			
59	Draper, Francis	East Cambridge, Mass.	Fountain inkstands	April 2, 1861.
1985	Draper, J. E.	Northville, Mich.	Tool for clinching horseshoe nails	Aug. 6, 1861.
1592	Dray, Andrew	Portland, Oregon.	Device for levelling millstones	June 15, 1861.

List of patentees of inventions, designs, and reissues, 1862.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2459	Drennon, Samuel H., assignor to Lewis A. Carner	New York, N. Y.	Heads for double seaming	Oct. 8, 1861.
442	Drew, H. C.	Stockbridge, Mich.	Capstan for ploughs.	Feb. 19, 1861.
2673	Drew, Reuben W., assignor to A. B. Ely	Abington, Mass.	Sewing machines	Nov. 5, 1861.
957	Dripps, William	Coatsville, Pa.	Water wheels	April 9, 1861.
	Driscoll, Jeremiah W., and Wm. G. Schmidlin. (See Schmidlin & Driscoll.)			
	Driscoll, J. W., and Wm. Schmidlin. (See Schmidlin & Driscoll.)			
1393	Drummond, James F., assignor to Reynolds, Devoe & Pratt	New York, N. Y.	Paint cans.	May 21, 1861.
108	Dryden, W. A.	Monmouth, Ill.	Cultivators	Jan. 15, 1861.
1330	Ducharme, Moses, assignor to self and George Ducharme..	Cohoes, N. Y.	Locks	May 14, 1861.
2925	Duchemin, Watson	Charlottetown, Prince Edward's Island	Hoisting block	Dec. 17, 1861.
	Dudley, C. T. (See Bartram, Walker B., assignor.)			
373	Dunbrack, C. H.	Jacksonville, Ill.	Water elevators	Feb. 12, 1861.
1593	Duncan, Eli.	West Hilton, Ohio.	Fruit-drying apparatus	June 18, 1861.
2633	Dungan, Lewis.	Philadelphia, Pa.	Apparatus for preserving and discharging malt liquors	Nov. 5, 1861.
	Dunham, Henry R.	Flushing, N. Y.	Connecting side pipes with steam chests. (Extension) ..	Mar. 19, 1861.
700	Dunham, John.	Detroit, Mich.	Steam boilers	Mar. 19, 1861.
1509	Dunn, W. C. and J.	New York, N. Y.	Carriage bodies	June 11, 1861.
2336	Dunshee, Andrew T.	McKeesport, Pa.	Water filters	Sept. 24, 1861.
443	Dunwald, Peter.	Corning, N. Y.	Churns	Feb. 19, 1861.
9	Durand, John H.	Niles, Mich.	Clothes dryer	Jan. 1, 1861.
1821	Durant, A. P.	Atlanta, Ill.	Seeding cultivators	July 16, 1861.
	Durant, Charles W. (See Seeley, Samuel J., assignor.)			
	Dutcher, S. M., and D. B. Chatfield. (See Chatfield & Dutcher.)			
374	Dutton, Rufus.	Dayton, Ohio.	Harvesting machines	Feb. 12, 1861.
701	Dutton, Rufus.	Dayton, Ohio.	Mowing machines	Mar. 19, 1861.
120	Dutton, Rufus.	Dayton, Ohio.	Harvesters	Aug. 27, 1861.
300	Duvall, Jules	New Orleans, La.	Defecating saccharine liquids	Feb. 5, 1861.
301	Dwight, Solomon	Byron, Ill.	Cultivators	Feb. 5, 1861.
1934	Dyer, George W.	Derby, Conn.	Skates	July 30, 1861.
1394	Dyer, John A., assignor to self and H. C. Knowlton.	Newburg, Ohio	Machines for cutting chair backs	May 21, 1861.
2926	Eagle, R. N.	United States Army	Stirrups and their covers	Dec. 17, 1861.
3040	Eagle, Robert N.	United States Army	Saddles	Dec. 24, 1861.
638	Earle, John E., assignor to self and Samuel Hathaway ..	Brooklyn, N. Y.	Sewing machines	Mar. 5, 1861.
1659	Earle, John E., assignor to self and Samuel Hathaway ..	Brooklyn, N. Y.	Machines for making tape trimming	June 25, 1861.
152	Earle, Thomas.	Worcester, Mass.	Sewing machines	Jan. 22, 1861.
	Earl, William, jr., and J. Noone. (See Davis, Joseph, assignor.)			
2877	Early, Jacob, and J. B. Parvin	Hightstown, N. J.	Seeding machines	Dec. 10, 1861.
657	Eastham, A. S.	Wharton, Texas.	Cotton cleaner	Mar. 12, 1861.
2634	Eastman, H. G.	Poughkeepsie, N. Y.	Penman's assistant	Nov. 5, 1861.
958	Eastman, Henry W.	Baltimore, Md.	Portable folding bedstead	April 9, 1861.

1617	Eaton, A. K.	New York N. Y.	Process of manufacturing malleable cast-iron and steel, and in the deoxygenizing of iron ores.	June 25, 1861.
2377	Ebbitt, William	New York, N. Y.	Frogs for railroad tracks	Oct. 1, 1861.
302	Eberhardt, Otto	Brooklyn, N. Y.	Flower pots	Feb. 5, 1861.
	Eckel, John J. (See Schuyler, Isaac S., assignor.)			
	Eckel, John J. (See Schuyler, Isaac S., assignor.)			
2927	Eddy, R. S., and A. O. Miles	Nashua, N. H.	Locks	Dec. 17, 1861.
	Edgerson, L. F., and L. S. Bundy. (See Bundy & Edgerson.)			
1273	Edson, N. T.	New Orleans, La.	Wheelwright's machine	May 14, 1861.
1258	Edwards, D. M., and Joseph Horner	New York, N. Y. New Brunswick, N. J.	Windlasses	May 7, 1861.
10	Eggeston, C.	Beloit, Wis.	Seeding machines	Jan. 1, 1861.
	Egolf, Henry, et al. (See Matthews, J., assignor.)			
	Ehlin, E., et al. (See Lofvendahl, Joseph, assignor.)			
	Ehrlich, J., et al. (See Kollinsky, Ehrlich, & De Zeyk.)			
926	Ehrman, Samuel	Mount Joy, Pa.	Hinge	Jan. 29, 1861.
153	Eikenberry, Lewis	Easton, Pa.	Iron bridges	Jan. 22, 1861.
1051	Eikenberry, Lewis	Philadelphia, Pa.	Valve arrangement	April 16, 1861.
2731	Eikenberry, Lewis	Philadelphia, Pa.	Steam slide and cut-off valves	Nov. 19, 1861.
2028	Eiswald, T. G.	St. Louis, Mo.	Boots and shoes	Aug. 13, 1861.
	Elbreg, George, and John Myers. (See Myers & Elbreg.)			
1122	Elder, Stewart	Buffalo, N. Y.	Spring bed	April 23, 1861.
2072	Eldred, N. J.	Elk Horn, Wisconsin	Eave troughs	Aug. 20, 1861.
	Eldridge, N., and O. Doolittle. (See Doolittle & Eldridge.)			
875	Ellard, William	Woburn, Mass.	Machines for finishing leather	April 2, 1861.
1274	Ellicott, James P.	Washington, D. C.	Apparatus for irrigating streets	May 14, 1861.
1757	Elliott, J. D.	Grafton, Mass.	Machines for folding cloth	July 9, 1861.
2378	Elliott, William H.	Plattsburg, N. Y.	Revolving fire-arm	Oct. 1, 1861.
2732	Elliott, William H.	Plattsburg, N. Y.	Pumps for oil wells	Nov. 19, 1861.
2928	Elliott, William H.	Plattsburg, N. Y.	Base-pin and rammer of revolving pistols	Dec. 17, 1861.
	Elliott, A. B. (See Moulson, John, assignor.)			
2073	Elliott, Harrison	Boston, Mass.	Screw propeller	Aug. 20, 1861.
787	Elliott, Joseph S.	Philadelphia, Pa.	Gearing for gas metre	Mar. 26, 1861.
2296	Elliott, Joseph S.	Philadelphia, Pa.	Register for gas metres	Sept. 17, 1861.
2693	Elliott, K. H., and James Brown	Morrisville, Vt.	Revolving clothes dryer	Nov. 12, 1861.
	Ellis, John. (See Olmstead & Ellis, assignors.)			
1986	Ellis, John	Detroit, Mich.	Gate latch	Aug. 6, 1861.
2930	Ellis, Joseph W., M. D.	Augusta, Maine	Tent ventilator	Dec. 17, 1861.
	Ellis, Thomas. (See Bolles, Solomon E., assignor.)			
2518	Eilmaker, William	New Holland, Pa.	Self-acting brakes for carriages	Oct. 22, 1861.
444	Elmore, Benjamin H.	Richmond, Ind.	Corn planters	Feb. 19, 1861.
	Elting, Peter T., and George Clark. (See Clark & Elting.)			
33	Elward, John H., assignor to Martin A. Howell, jr.	Ottawa, Ill.	Mole ploughs. (Reissue)	Feb. 19, 1861.
	Ely, Alfred B. (See Mann, Charles G., assignor.)			
	Ely, Alfred B. (See Vittum & Stevens, assignors.)			
	Ely, Alfred B. (See Moore, George R., assignor.)			
	Ely, Alfred B. (See Drew, Reuben W., assignor.)			
876	Ely, Charles R.	Sheldon, Vt.	Process of reducing iron castings and preparing cast-iron patterns.	April 2, 1861.
	Ely, William N. (See Stevens, E. M., assignor.)			
	Emanuel, M., jr., and W. R. Thomas. (See Thomas & Emanuel.)			
11 23	Emerick, John A.	Philadelphia, Pa.	Stopping and starting railroad cars	April 23, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1124	Emerson, Chauncey W.	Albany, N. Y.	Cultivators.	April 23, 1861.
2914	Emerson, Daniel L., assignor to Mary Manny	Rockford, Ill.	Harvesters.	Dec. 10, 1861.
2425	English, B. C.	Hartford, Conn.	Cartridge cases.	Oct. 8, 1861.
2412	English, Samuel, and Jonas Heartt. (See Heartt & English, assignors, &c.)			
123	Erpelding, Lambert, assignor to Cyrus H. McCormick	Chicago, Ill.	Reaping and mowing machines.	Oct. 1, 1861.
123	Eshleman, J. Albert	Philadelphia, Pa.	Cravat. (Design)	Nov. 12, 1861.
109	Estabrook, Strong & Luce. (See Luce, C. O., assignor.)			
154	Esterly, George.	Whitewater, Wis.	Hand rake for reaping machines.	Jan. 15, 1861.
155	Esterly, George.	Whitewater, Wis.	Harvesters.	Jan. 22, 1861.
155	Eter, Samuel. (See Walcott, H. S., assignor.)	Whitewater, Wis.	Harvesters.	Jan. 22, 1861.
2119	Evans, H. W., assignor to self and C. C. Jenkins.	Philadelphia, Pa.	Equalizing the action of springs in governors.	Aug. 20, 1861.
788	Evans, James W.	New York, N. Y.	Railroad car-springs.	Mar. 26, 1861.
789	Evans, James W.	New York, N. Y.	Cushion springs.	Mar. 26, 1861.
2576	Evans, John.	New Haven, Conn.	Machine for heading carriage spring heads.	Oct. 29, 1861.
1823	Evans, Joseph.	San José, Cal.	Pruning shears.	July 16, 1861.
156	Evans, O. C.	New York, N. Y.	Lamps.	Jan. 22, 1861.
844	Evans, O. C., assignor to self and L. D. Towsley.	New York, N. Y.	Fastening of metallic bands for cotton bales.	Mar. 26, 1861.
790	Evans, Thomas.	Watkins, N. Y.	Valves.	Mar. 26, 1861.
1182	Evans, Thomas W.	Philadelphia, Pa.	Telegraphic cable.	April 30, 1861.
55	Everitt, Elisha E.	Philadelphia, Pa.	Bedstead fastening. (Reissue.)	Mar. 26, 1861.
2029	Ewbanks, A., and A. C. Stiles. (See Stiles, A., assignor.)			
2029	Exton, Adam	Trenton, N. J.	Rolling pin and docker for biscuit.	Aug. 13, 1861.
2132	Exton, Adam	Trenton, N. J.	Biscuit machine.	Aug. 27, 1861.
110	Faber, Eberhard	New York, N. Y.	Trade-mark for lead pencils. (Design.)	Oct. 8, 1861.
2030	Faber, Johann L.	Stein, Bavaria.	Pencils.	Aug. 13, 1861.
2694	Face, Lewis.	Covington, Ohio.	Washing and wringing machine.	Nov. 12, 1861.
702	Fagan, Bernard.	New Britain, Conn.	Quilting frame, table, and clothes dryer combined.	Mar. 19, 1861.
1594	Fahrney, John & Samuel.	Washington county, Md.	Seed drills.	June 18, 1861.
703	Fairbanks, Leonard O.	Nashua, N. H.	Bevel attachment for bench planes.	Mar. 19, 1861.
2237	{ Fairchild, L. S., and W. B. Sturgess }	{ Cleveand, Ohio. Troy, N. Y. }	Gates and shutes for water wheels.	Sept. 10, 1861.
	Falconnet, E. F., and C. Williams. (See Williams & Falconnet)			
1275	Fales, Squire M.	Baltimore, Md.	Refining and smelting furnaces.	May 14, 1861.
1276	Fales, Squire M.	Baltimore, Md.	Refining and puddling furnaces.	May 14, 1861.
2519	Falke, Oscar, and Edward Simon.	New York, N. Y.	Arrangement of metallic plates for vulcanizing rubber and other gums.	Oct. 22, 1861.
110	Fanckboner, A.	Schoolcraft, Mich.	Grain separators.	Jan. 15, 1861.
2635	Fargusson, J.	Dubuque, Iowa.	Grain separators.	Nov. 5, 1861.
959	Farrar, Willard T.	Concord, Mass.	Adjustable ladder hook.	April 9, 1861.
1159	Farrell, Joseph O., assignor to self and W. S. & J. H. Hills.)	Boston, Mass.	Tailboards of wagons.	April 23, 1861.

960	Faver, Peter	New York, N. Y.	Mill picks	April 9, 1861.
2878	Fawkes, J. W.	Decatur, Ill.	Steam ploughs	Dec. 10, 1861.
73	Fay, Josiah C.	Troy, N. Y.	Plates of a cooking stove (Design)	July 16, 1861.
2186	Fay, L. N., et al. (See Mason, William, assignor.)	Cincinnati, Ohio	Edging machine	Sept. 3, 1861.
791	Feagan, Z.	Palmyra, Mo.	Hemp carts	Mar. 26, 1861.
1277	Fearing, I. J.	South Weymouth, Mass.	Buttonhole cutters	May 14, 1861.
157	Felch, Isaac N.	Hollis, Maine	Hub machine	Jan. 24, 1861.
1227	Felker, Valentine, assignor to self and Rufus Jones	Carmel, Maine	Ploughs	Jan. 22, 1861.
2929	Felton, Philo S.	Cincinnati, N. Y.	Guard attachment for locks	April 30, 1861.
2327	Felthousen, Henry C.	Buffalo, N. Y.	Signal lanterns	Dec. 17, 1861.
58	Ferguson, James E.	Micanopy, Fla.	Cotton gins	Dec. 3, 1861.
81	Ferry, L. M., assignor to James T. Ames, assignor to Emerson Gaylord.	Chicopee, Mass.	Hose coupling (Reissue.)	Jan. 1, 1861.
1414	Ferry, William M., jr.	Terrysburg, Mich.	Saw mills	May 28, 1861.
227	Fessenden, Abijah	Boston, Mass.	Device for straining wood saws	Jan. 29, 1861.
2426	Feyh, Henry	Columbus, Ohio	Hose coupling	Oct. 8, 1861.
445	Field, Samuel T.	Worcester, Mass.	Process for manufacturing wooden eave troughs and pipes	Feb. 19, 1861.
303	Fielcmeyer, Joseph	Philadelphia, Pa.	Apparatus for cutting ice	Feb. 5, 1861.
2981	Fink, Jeremiah	Baldwinsville, N. Y.	Cultivators	Dec. 24, 1861.
2074	Finken, Gustavus	Brooklyn, N. Y.	Apparatus for manufacturing cube sugar	Aug. 20, 1861.
2520	Finken, Gustavus	Brooklyn, N. Y.	Manufacture of cube sugar	Oct. 22, 1861.
1510	Finnegan, R., and A. F. W. Schulte	New York, N. Y.	Pressure gauge	June 11, 1861.
2931	Finnell, M. A.	New York, N. Y.	Thermometers	Dec. 17, 1861.
2636	Fischel, David K.	Lancaster, Ohio	Weather strips and fasteners for doors	Nov. 5, 1861.
531	Fischer, Peter	Fort Adams, Miss.	Crosscut sawing machines	Feb. 26, 1861.
375	Fish, Warren L.	Newark, N. J.	Guides for sewing machines	Feb. 12, 1861.
1240	Fisher, Francis, et al. (See Weiland, G., assignor.)	Alliance, Ohio	Mowing machines	May 7, 1861.
2725	Fisher, Henry S.	Newburg, Pa.	Means of sealing preserve cans	Nov. 5, 1861.
1987	Fisher, John Kenrick	New York, N. Y.	Locomotives and steam carriages for common roads	Aug. 6, 1861.
2075	Fisher, Thomas N., and J. H. Zinn	Newport, Pa.	Stoves	Aug. 20, 1861.
2238	Fisher, Thomas	Camden, N. J.	Portable manger	Sept. 10, 1861.
2314	Fitts, R. B., assignor to self, E. P. Thoonburgh, and William Stacey.	Philadelphia, Pa.	Feed bag for horses and other animals	Sept. 17, 1861.
2733	Fitts, R. B.	Philadelphia, Pa.	Army, feed, and water buckets	Nov. 19, 1861.
1546	Fitts, Samuel L., assignor to C. & G. C. Winchester	Ashburnham, Mass.	Boring machines	June 11, 1861.
2428	Fitzgerald, Elisha	New York, N. Y.	Mixing dough	Oct. 8, 1861.
961	Flagg, George C.	Tanktown, Ohio.	Gates	April 9, 1861.
13	Flanagan, James. (See Williams, E. C., assignor)	Parishville, N. Y.	Grain cradles (Reissues)	Jan. 8, 1861.
304	Flanders, Moses R.	Ypsilanti, Mich.	Instruments for measuring lumber	Feb. 5, 1861.
589	Fleming, Charles	Brooklyn, N. Y.	Brushes	March 5, 1861.
2133	Fleming, Daniel	Louisville, Ky.	Feed cutters	Aug. 27, 1861.
445	Fleury, Matthew	Philadelphia, Pa.	Tools used in the manufacture of iron	Feb. 19, 1861.
1822	Fleury, Anthony L.	Philadelphia, Pa.	Manufacture of iron	July 16, 1861.
	Flood, Patrick H. (See Davis, John, assignor.)			
	Florence, Thomas B. (See Hope, Wm. H., assignor.)			
	Florence, Thomas B. (See Hope, Wm. H., assignor.)			
	Floyd, W., and P. Kane. (See Kane & Floyd.)			
2379	Foden, Thomas	Holyoke, Mass.	Stop motion for power looms	Oct. 1, 1861.
2337	Folger, Charles R.	Cincinnati, Ohio	Loop-catches for sewing machines	Sept. 24, 1861.
	Folsom, G. F., and J. S. Shailer. (See Shailer & Folsom.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2933	Foote, H. C.	Jersey City, N. J.	Portable farm fence.	Dec. 17, 1861.
2674	Forbush, Walter H., assignor to Eliakim B. Forbush.	Buffalo, N. Y.	Hammock.	Nov. 5, 1861.
532	Ford, Nelson.	Cambridge, Wis.	Seeding machines.	Feb. 26, 1861.
962	Ford, William C.	West Salem, Ohio.	Corn planters.	April 9, 1861.
533	Foreman, Daniel.	Tottenville, N. Y.	Crosscut sawing machines.	Feb. 26, 1861.
2031	Forrest, James.	Manchester, N. Y.	Cattle guard for railways.	Aug. 13, 1861.
1378	Forrest, Joseph.	New York, N. Y.	Machine for breaking sugar.	May 14, 1861.
2338	Forrist, A. and C. A. Wheeler, assignors to themselves, W. H. Goudy, and Henry Rogers.	Mount Vernon, Iowa.	Boot patterns.	Sept. 24, 1861.
422	Fossler, C. W., assignor to self and J. Balsburgh.	Freeport, Ill.	Seeding machines.	Feb. 12, 1861.
1683	Foster, Andrew.	New York, N. Y.	Bedstead.	July 2, 1861.
2502	Foster, B. P., and W. H. Chaffee, assignors to Wm. H. Chaffee.	Flint, Mich.	Ditching and tile-laying machine.	Oct. 15, 1861.
2059	Foster, D. P., assignor to self and L. L. Hill.	Sheburne Falls, Mass.	Saw set.	Aug. 13, 1861.
2828	Foster, John H.	Detroit, Mich.	Apparatus for steering vessels by water.	Dec. 3, 1861.
1595	Foster, John T.	Jersey City, N. J.	Harrows.	June 18, 1861.
1684	Foster, Joseph S.	Vallicita, Cal.	Machine for felling trees.	July 2, 1861.
2315	Foster, Samuel, assignor to E. W. Thompson.	Bristol, Maine.	Rudder case for navigable vessels.	Sept. 10, 1861.
2297	Fouchier, Victor.	Paris, France.	Mills for grinding grain.	Sept. 17, 1861.
158	Fowler, F. F.	Crane Township, Ohio.	Machine for gathering hay.	Jan. 23, 1861.
1935	Fowler, John, and W. L. Walter.	Homer, N. Y.	Churns.	July 30, 1861.
1022	Fowler, John, jr., assignor to Wm. Penn Tatham.	Leeds, England.	Machinery for ploughing and tilling land by steam.	April 9, 1861.
1021	Fowler, John, jr., assignor to same.	Leeds, England.	Machinery for ploughing and tilling land.	April 9, 1861.
1023	Fowler, John, jr., and D. Gregg, assignors to same.	Leeds, England.	Machinery for ploughing and tilling land.	April 9, 1861.
1806	Fowler, John, jr., and	Havering, England.	Machines for tilling land by steam.	July 9, 1861.
1806	William Worby, assignors to William Penn Tatham.	Ipswich, England.		
1805	Fowler, John, jr., assignor to William Penn Tatham.	London, England.	Machinery for ploughing and tilling land.	July 9, 1861.
1908	Fowler, John, jr.	Cornhill, England.	Drums or pulleys to prevent ropes from slipping in machinery for ploughing and tilling land by steam.	July 23, 1861.
	Robert Burton.	Kingsland, England.		
	David Greg and	New Cross, England.		
	Jeremiah Head, assignors to Wm. Penn Tatham.	Newcastle on Tyne, England.		
	Fowler, Joseph, and F. M. Bacon. (See Bacon & Fowler.)			
	Fowler, M. Field, and Thomas Harbottle. (See Harbottle & Fowler.)			
704	Fowler, Thaddeus.	Seymour, Conn.	Device for coating pins.	Mar. 19, 1861.
2982	Fowler, Thaddeus.	Richmond Valley, N. Y.	Marking brush.	Dec. 24, 1861.
	Fox, D. H., and G. J. Willson. (See Willson & Fox.)			
	Fox, G. W., and R. P. Henry. (See Henry & Fox.)			
1052	Foy, James M.	Fountain Green, Ill.	Corn planters.	April 16, 1861.
2230	Fraer, Peter.	West Springfield, Pa.	Cattle pump.	Sept. 10, 1861.
2240	France, Joseph A.	Cobleskill, N. Y.	Breech-loading ordnance.	Sept. 10, 1861.
	Francis, Smith & Wells. (See Scyces & Smith, assignors.)			
	Francis, Smith & Wells. (See Scyces & Smith, assignors.)			
	Francis, Smith & Wells. (See Sailor, S. H., assignor.)			
	Francis, Smith & Wells. (See Sailor, S. H., assignor.)			
1183	Francis, Samuel W.	New York, N. Y.	Match boxes.	April 30, 1861.

2637	Francisco, Henry.	White Water, Wis.	Spring tooth for cultivators.	Nov. 5, 1861.
	Frank, F., and J. Stuber. (See Stuber & Frank.)			
2241	Frank, William	Mount Sterling, Ill.	Locks of fire-arms.	Sept. 10, 1861.
2229	Frankfurt, Henry	Utica, N. Y.	Baby-jumper and supporter	Dec. 3, 1861.
2242	Franklin, Bradley W.	New York, N. Y.	Caoutchouc vulcanizing in single-chamber apparatus.	Sept. 10, 1861.
2460	Franklin, Bradley W., assignor to American Hard Rubber Company.	New York, N. Y.	Vulcanizing caoutchouc.	Oct. 8, 1861.
376	Fraser, E. C.	New York, N. Y.	Machine for cutting and punching sheet metal.	Feb. 12, 1861.
1125	Fraser, Edwin J.	Kansas, Mo.	Ploughs	April 23, 1861.
534	Frazeo, Lawrence P.	Tottenville, N. Y.	Clothes frame	Feb. 26, 1861.
705	Frazeo, Lawrence P.	Tottenville, N. Y.	Ash sifters.	Mar. 19, 1861.
1824	Frazier, John Q. A.	Piqua, Ohio	Harvesters	July 16, 1861.
924	Freeman, T. J., assignor to self and E. T. Freeman	Heyworth, Ill.	Machine for cutting standing cornstalks	April 2, 1861.
1354	Freeman, W.	Mount Carmel, Conn.	Lamps	May 21, 1861.
2380	Frees, P. M., and Zenus King	Cincinnati, Ohio	Trussed beam for bridges, &c.	Oct. 1, 1861.
2187	Freligh, Isaac	Bardstown, Ky.	Machines for dressing stone	Sept. 3, 1861.
228	French, Aaron F.	Franklin, Vt.	Machine for sawing shingles from the block.	Jan. 29, 1861.
1858	French, A. H.	Pittsfield, Ill.	Water elevators	July 23, 1861.
111	French, C. C.	West Stockbridge, Mass.	Corn shellers	Jan. 15, 1861.
1053	French, Raymond	Seymour, Conn.	Joints of railroad rails.	April 16, 1861.
	French, R., and Lyman Smith. (See Smith & French.)			
1241	Frey, Alexander	New York, N. Y.	Looms	May 7, 1861.
1859	Frickinger, Frederick	Schodack, N. Y.	Piano-forte action	July 23, 1861.
146	Frink, Isaac P.	Newark, N. J.	Reflectors (Reissue)	Dec. 24, 1861.
2381	Frodsham, Bridge, and Morris Levett	New York, N. Y.	Knapsack and bed in combination	Oct. 1, 1861.
2773	Frodsham, Bridge	New York, N. Y.	Materials for mattresses, cushions, &c.	Nov. 26, 1861.
1807	Froelich, Ch., assignor to Phelan & Colleder.	New York, N. Y.	Tivoli table	July 9, 1861.
2012	Frost, Henry A., assignor to H. S. & D. H. Whittemore.	Worcester, Mass.	Apple parer	Aug. 6, 1861.
2760	Frost, W. E., assignor to Washburn & Moen	Clinton, Mass.	Skirt wire	Nov. 19, 1861.
2923	Fryatt, Horatio N.	Belleville, N. J.	Refining and crystallizing sugar	Dec. 24, 1861.
1618	Fryatt, Horatio N.	Belleville, N. J.	Decolorizing sirups	June 25, 1861.
1214	Frye, Solomon	Monongahela City, Pa.	Door lock	April 30, 1861.
159	Fuller, E. W.	Martinsville, La.	Cultivators	Jan. 22, 1861.
	Fuller, Joseph C., and R. Dickinson. (See Jennings, Lewis, assignor)			
	Fuller & Safely. (See Parkhurst, Orson, assignor.)			
1758	Fuller, William Coles	London, England	Gun carriages.	July 9, 1861.
1492	Fuller, Willard M., assignor to self and Geo. W. Chandler.	Chicago, Ill.	Sewing machines.	June 4, 1861.
1054	Fulton, Samuel	Conshohocken, Pa.	Moulds for casting pipe	April 16, 1861.
1056	Fulton, Samuel	Conshohocken, Pa.	Core carriages	April 16, 1861.
1355	Fulton, Samuel	Conshohocken, Pa.	Casting pipe.	May 21, 1861.
1936	Funston, A. C.	Philadelphia, Pa.	Slate pencil sharpener.	July 30, 1861.
	Furbish, D. H. (See Cummings, Perley D., assignor.)			
112	Furman, George W.	Brooklyn, N. Y.	Mode of relieving steam cylinders of the water of condensation.	Jan. 15, 1861.
2830	Furnas, Wilkinson	Ononwa, Iowa	Ploughs	Dec. 3, 1861.
2298	Furniss, F. H.	Cleveland, Ohio	Railroad car ventilators.	Sept. 17, 1861.
2076	Gabel, Nelson	Gratis, Ohio	Churn.	Aug. 20, 1861.
160	Gabron, G. G., and N. B. Whiting	Copenhagen, N. Y.	Stave jointer	Jan. 22, 1861.
1860	Gage, Charles W.	Homer, N. Y.	Mode of attaching thills to carriage axles.	July 23, 1861.
1759	Gage, Henry A.	Manchester, N. H.	Machine for addressing newspapers.	July 9, 1861.
1215	Gallacher, John McAulay	Roxbury, Mass.	Construction of gas retorts.	April 30, 1861.
1660	Gamble, D. R., assignor to self and J. M. Connel.	Newark, Ohio	Washing machine.	June 25, 1860.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1554	Gano, L. H.	Ripon, Wis.	Buggy tops	June 18, 1861.
1279	Ganson, J. S., and C. T. Coit.	Buffalo, N. Y.	Fireplaces	May 14, 1861.
	Gantier, L. P., and John Hastings. (See Hastings & Gantier.)			
646	Garcia, Carlos, administrator of Felix Garcia, deceased.	New Orleans, La.	Decalcifying liquids	Mar. 5, 1861.
792	Gardiner, Perry G.	New York, N. Y.	Cotton presses	Mar. 26, 1861.
877	Gardiner, Perry G.	New York, N. Y.	Carriage springs	April 2, 1861.
706	Gardner, Charles	Hoosick, N. Y.	Cultivators	Mar. 19, 1861.
2831	Gardner, G. W.	Troy, N. Y.	Percussion shells.	Dec. 3, 1861.
	Gardner, H. R. (See Hill, B. B., assignor.)			
1057	Gargan, Louis X.	Paris, France.	Feed-water apparatus for steam boilers	April 16, 1861.
447	Garner, L. P.	Ashland, Pa.	Machine for breaking coal	Feb. 19, 1861.
377	Garrett, C. C.	Spring Hill, Ala.	Seed planters	Feb. 12, 1861.
2339	Garrick, Thomas	Providence, R. I.	Knapsacks	Sept. 24, 1861.
569	Gary, George and Samuel P., assignors to themselves and Joseph E. Gary.	Oshkosh, Wis.	Printing presses	Feb. 26, 1861.
1937	Gaskill, W. J.	Apalachin, N. Y.	Device for adjusting the rake of muly saws	July 30, 1861.
2299	Gately, Dennis C.	Newtown, Conn.	Process of vulcanizing caoutchouc and other substances	Sept. 17, 1861.
	Gates, Nelson, et al. (See Rosenerantz, E. D., assignor.)			
	Gates, Philetus W.	Chicago, Ill.	Dies for cutting screws. (Extension.)	May 6, 1861.
2577	Gates, J. R.	Louisville, Ky.	Cider and wine mills.	Oct. 29, 1861.
2638	Gates, Thomas	Worcester, Mass.	Refrigerator	Nov. 5, 1861.
1596	Gatling, Richard J.	Indianapolis, Ind.	Machine for paring and pulverizing the soil.	June 18, 1861.
1058	Gatty, George	New York, N. Y.	Curtain fixtures	April 16, 1861.
1685	Gault, John	Boston, Mass.	Projectiles for ordnance	July 2, 1861.
1861	Gault, John, assignor to William H. Moore	Boston, Mass.	Coal-hole covers	July 23, 1861.
2300	Gault, John	Boston, Mass.	Combination of eraser and eraser sharpener	Sept. 17, 1861.
2476	Gault, John	Boston, Mass.	Setting vault lights	Oct. 15, 1861.
707	Gaunt, William E., and Botsford B. Hinman.	Keokuk, Iowa	Grain separators	Mar. 19, 1861.
	Gauntlett, John. (See Mix, E. M. & J. E., assignors)			
	Gaylord, Emerson. (See Ferry, L. M., assignor.)			
929	Gaylord, E. L.	Terrysville, Conn.	Trunk locks	Jan. 29, 1861.
2340	Gedney, George W. B.	New York, N. Y.	Air-gun	Sept. 24, 1861.
1760	Geissenhainer, Charles P.	Pittsburg, Pa.	Cooking stoves	July 9, 1861.
2695	Gengembre, H. P.	Tarentum, Pa.	Apparatus for distilling coal oils	Nov. 12, 1861.
1469	{ George, A. M., and J. W. Carter	{ Nashua, N. H. Brooklyn, N. Y.	Carpet cleaner	June 4, 1861.
878	George, Robert W.	Richmond, Maine.	Washing machine	April 2, 1861.
230	George, W. F.	New York, N. Y.	Hair crimpers	Jan. 29, 1861.
1242	Gedom, Emerick J., and Jacob Damm	Albany, N. Y.	Trusses	May 7, 1861.
1280	Getchell, John S.	Machias, Maine	Capstan and windlass combined	May 14, 1861.
1761	Gibbs, John	Brooklyn, N. Y.	Shade fixtures	July 9, 1861.
276	Gibbs, John B., assignor to self and John Pearson	Boston, Mass.	Skate fastening	Jan. 29, 1861.
2134	Gibbs, John C.	Middleborough, Mass.	Ships' scraper	Aug. 27, 1861.
2776	Gibbs, Kendall	Berwick, Maine	Cattle fastenings	Nov. 26, 1861.

41 Gibbs, Samuel W., assignor to John F. Rathbone
 39 Gibbs, Samuel W., assignor to John F. Rathbone
 40 Gibbs, Samuel W., assignor to John F. Rathbone
 62 Gibbs, Samuel W., assignor to John F. Rathbone
 93 Gibbs, Samuel W., assignor to Abbott & Noble
 793 Gibson, A. T.
 305 Gibson, F. M.
 Gifford, E. M., and R. H. Peck. (See Peck & Gifford.)
 Gifford, E. M. (See Peck, Royal H., assignor.)
 231 Gilbert, N. S.
 2934 Gilbert, N. S.
 879 Gilbert, S. P.
 963 Gilbert, Tilmon
 1619 Gill, Mathew
 2477 Gillespie, J. P.
 113 Gillet, Homer
 2984 Gilliland, D. C.
 1415 Gilman, Jesse
 448 Gingrich, Joseph K.
 114 Girard, F.
 2478 Giraud, P.
 794 Giraudat, A.
 2135 Giraudat, A.
 2382 Gittens, J. K., jr.
 2879 Glenn, C. J., C. Ball, and U. S. Hackett
 Glidden, Carlos, and Cicero Comstock. (See Comstock & Glidden.)
 140 Glomensky, Antoine, Albert E. Powers, administrator of...
 74 Glover, Joseph H.
 Glover, Robert, et al. (See Richardson, Geo. W., assignor.)
 232 Glover, Warren
 Glynn, H. W., et al. (See Weitman, Christian, assignor.)
 Goble & Richards. (See Williamson, George, assignor.)
 Godfrey, B. D. (See How, Jarvis, assignor.)
 964 Godley, Anderson
 2969 Goeway, George, assignor to self and E. S. Marsh
 378 Goff, Silas M.
 1825 Gold, Benjamin F.
 2935 Going, Stephen R.
 449 Goldenblum, R., and F. Steiner
 65 Goodale, E. W.
 306 Goodale, Samuel D.
 1281 Goodhue, D. F., and E. H. Carey
 114 Goodman, J., and Samuel Rote
 Goon, M., and B. Coe. (See Coe & Goon.)
 2383 Goodrich, Horace
 658 Goodrich, W. B.
 1493 Goodspeed, Isaac, assignor to self, A. A. Goodspeed, and E. S. Stebbins.
 1826 Goodspeed, J., and C. Crawley
 Goodwin, Richard D., et al. (See Williams, Wm., assignor.)
 307 Goodyear, Henry B.

Albany, N. Y.
 Worcester, Mass.
 Chelsea, Mass.
 Lockport, N. Y.
 Lockport, N. Y.
 Racine, Wis.
 Natchez, Miss.
 Battle Creek, Mich.
 New Albany, Ind.
 Lyndon, Ill.
 Brownsville, Ohio
 South Merrimack, N. H.
 North Annville, Pa.
 New York, N. Y.
 New York, N. Y.
 New York, N. Y.
 New York, N. Y.
 Green Point, N. Y.
 Unadilla, Mich.
 Lansingburg, N. Y.
 Glasgow, Ky.
 New England Village, Mass.
 Ithaca, N. Y.
 New York, N. Y.
 East Addison, Vt.
 Reading, Pa.
 Brooklyn, N. Y.
 East Hampton, Mass.
 Clinton, Mass.
 Cincinnati, Ohio.
 Cincinnati, Ohio.
 Lancaster, Pa.
 Stoneham, Mass.
 Ashley, Ohio
 Norwich, Conn
 Norwich, Conn
 Norwich, Conn
 New Haven, Conn.

Cooking stove (Design) May 7, 1861.
 Stove (Design) May 7, 1861.
 Parlor stove (Design) May 23, 1861.
 Parlor stove (Design) May 7, 1861.
 Cap and base for a parlor stove (Design) Aug. 13, 1861.
 Skates Mar. 26, 1861.
 Joints of fellos in carriage wheels Feb. 5, 1861.
 Preserve cans Jan. 29, 1861.
 Preserve jar Dec. 17, 1861.
 Hollow augers April 2, 1861.
 Cotton presses April 9, 1861.
 Life or safety ships June 25, 1861.
 Metallic cartridges Oct. 15, 1861.
 Mole ploughs Jan. 15, 1861.
 Cultivators Dec. 24, 1861.
 Feeding and gigging back movement in sawing machines May 28, 1861.
 Ploughs Feb. 19, 1861.
 Picture frames (Design) Oct. 22, 1861.
 Mode of preserving butter Oct. 15, 1861.
 Windmills Mar. 26, 1861.
 Motive power Aug. 27, 1861.
 Caps Oct. 1, 1861.
 Stump extractors Dec. 10, 1861.
 Floor cloth (Design) Nov. 19, 1861.
 Mill gearing Jan. 8, 1861.
 Treadle attachment for sewing machines Jan. 29, 1861.
 Refrigerator and water-cooler (Disclaimer) June 17, 1861.
 Churns April 9, 1861.
 Cultivators Dec. 17, 1861.
 Cultivators Feb. 12, 1861.
 Cooking stove July 16, 1861.
 Skates Dec. 17, 1861.
 Composition for water-proofing leather Feb. 19, 1861.
 Machine for making envelopes (Reissue) April 16, 1861.
 Steroscopes Feb. 5, 1861.
 Wheel carriages May 14, 1861.
 Seeding cultivators Jan. 15, 1861.
 Printing presses Oct. 1, 1861.
 Apparatus for evaporating sugar solutions Mar. 12, 1861.
 Cork machines June 4, 1861.
 Guide for bombs, lances, and other projectiles July 16, 1861.
 Method of relieving geographical outlines on moulded elastic globes Feb. 5, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2696	Goodyear, Henry B	New Haven, Conn.....	Suspending telegraphic wires.....	Nov. 12, 1861.
1356	Goodyear, R. A., and L. A. Sprague.....	Binghamton, N. Y.....	Skates.....	May 21, 1861.
1126	Gordon, George P.....	Kansas, Mo.....	Printing press.....	April 23, 1861.
	Gordon, J. P. (See Hammer & Gordon.)			
1470	Gore, Ezekiel.....	Belvidere, Ill.....	Washing machine.....	June 4, 1861.
24	Gore, John.....	Brattleborough, Vt.....	Harvesters..... (Reissue)	Jan. 15, 1861.
1762	Gorgas, Charles R., and Wm. H. Smith.....	Wooster, Ohio.....	Furniture caster.....	July 9, 1861.
75	Gorham, J., G. Thurber, and L. Dexter, jr.....	Providence, R. I.....	Spoon and fork handles..... (Design)	July 16, 1861.
74	Gorham, J., G. Thurber, and L. Dexter, jr.....	Providence, R. I.....	Handles of table-spoons and forks..... (Design)	July 16, 1861.
106	Gorham, J., G. Thurber, and L. Dexter, jr.....	Providence, R. I.....	Spoons..... (Design)	Sept. 3, 1861.
1988	Gorham, M. L.....	Winnebago Station, Ill.....	Seeding machines.....	Aug. 6, 1861.
1228	Gornall, Richard, assignor to self and William J. Hooper... Gorton, James. (See Snider & Gorton.)	Baltimore, Md.....	Machine for making bullets.....	April 30, 1861.
880	Goslee, O. W.....	Glستنbury, Conn.....	Cultivators.....	April 2, 1861.
	Goudy, W. H., et al. (See Forrist & Wheeler, assignors.)			
881	Goulard, E.....	New York, N. Y.....	Apparatus for buoying vessels.....	April 2, 1861.
508	Gould, John Henry, assignor to Henry E. Wallace.....	Philadelphia, Pa.....	Packing for steam-engines.....	Feb. 19, 1861.
1216	Gould, J. W. & P. W.....	Evans, N. Y.....	Washing machine.....	April 30, 1861.
	Gould, William, et al. (See Reese, Gould & Lake.)			
1055	Goulding, George.....	Watertown, N. Y.....	Spinning machinery.....	April 16, 1861.
	Gove et al. (See Johnson & Bartlett, assignors.)			
18	Graham, Edmund H.....	Manchester, N. H.....	Magazine guns.....	Jan. 8, 1861.
1763	Graham, J. W., and J. M. Topliff.....	Pittsfield, Ill.....	Water elevators.....	July 9, 1861.
795	Graham, Ralph.....	Brooklyn, N. Y.....	Faucets.....	Mar. 26, 1861.
1265	Graichen, W., and C. Hoffman.....	Clinton, Mass.....	Looms.....	May 7, 1861.
	Granger, R. D., and A. Ransom. (See Ransom & Granger.)			
2341	Granger, R. D.....	Albany, N. Y.....	Stoves.....	Sept. 24, 1861.
2775	Granger, Samuel C.....	Chicago, Ill.....	Preparing mash for brewing.....	Nov. 26, 1861.
590	Grant, George W. T.....	Winona county, Minn.....	Picket fences.....	Mar. 5, 1861.
	Gratz, Ode & Hopper. (See Roberts, Edward, assignor.)			
233	Gratz, H. Howard.....	Spring Station, Ky.....	Machines for indicating railroad stations or streets of cities.....	Jan. 29, 1861.
2032	Gray, A. N.....	Cleveland, Ohio.....	Railroad rail coupling.....	Aug. 13, 1861.
450	Gray, Josiah C.....	Frankfort, Ind.....	Bee hives.....	Feb. 19, 1861.
797	Gray, Joseph.....	Raymond, Miss.....	Envelopes.....	Mar. 26, 1861.
796	Gray, H., and W. A. Bury.....	Grosse Isle, Mich.....	Farm gates.....	Mar. 26, 1861.
963	Gray, William H.....	Dover, N. H.....	Let-off for looms.....	April 9, 1861.
2698	Gray, W. H.....	Philadelphia, Pa.....	Epaulets.....	Nov. 12, 1861.
	Green, Hartel P., and Jacob Esteg. (See Burditt, Riley, assignor.)			
	Green, John W., et al. (See Tupper, A. K., assignor.)			
570	Greene, John F., assignor to Samuel B. Tobey.....	Brooklyn, N. Y.....	Machines for sifting flock.....	Feb. 26, 1861.
708	Green, Loure.....	Great Bend, Pa.....	Ploughs.....	Mar. 19, 1861.
1862	Green, Loure.....	Great Bend, Pa.....	Ploughs for draining and subsolling.....	July 23, 1861.
1127	Greenawalt, Charles.....	Seibertingville, Pa.....	Water wheel.....	April 23, 1861.
49	Greene, John F., assignor to Samuel B. Tobey.....	Brooklyn, N. Y.....	Machines for making hat-bodies.....	Jan. 1, 1861.

101	Greene, William A.	Albany, N. Y.	Laundry stove. (Design)	Aug. 13, 1861.
2479	Greenebaum, Michael.	Chicago, Ill.	Heating apparatus.	Oct. 15, 1861.
379	Greenteaf, G. S., and Cyrus Buckland.	Springfield, Mass.	Carpet stretcher.	Feb. 12, 1861.
1827	Greenteaf, M. T.	Guincy, Ill.	Pumps.	July 16, 1861.
60	Greenwood, Miles.	Cincinnati, Ohio.	Pump. (Design)	May 28, 1861.
1555	Gregg, Charles.	New York, N. Y.	Automatic regulator for steam-heating apparatus.	June 18, 1861.
	Greig, David, et al. (See Fowler, John, jr., et al.)			
798	Gridley, J. A.	Southampton, Mass.	Acromatic balance.	Mar. 26, 1861.
1471	Griffin, George B.	Madison, Wis.	Clothes wringer.	June 4, 1861.
75	Griffin, Isaac.	Milford, Ga.	Cotton presses.	Jan. 8, 1861.
161	Griffin, John.	Louisville, Ky.	Cotton pickers.	Jan. 22, 1861.
451	Griffin, John.	Louisville, Ky.	Changing the speed of steam carriages.	Feb. 19, 1861.
591	Griffin, John.	Louisville, Ky.	Cotton pickers.	Mar. 5, 1861.
592	Griffin, John.	Louisville, Ky.	Mode of regulating the speed of vehicles moved by mechanical power.	Mar. 5, 1861.
		Louisville, Ky.	Engines, &c., for overcoming dead points in cranks.	June 11, 1861.
1511	Griffin, John.	Syracuse, N. Y.	Machines for punching boiler plates.	Dec. 24, 1861.
2985	Griffin, Rhesa.	Roxbury, Mass.	Flower pots.	July 30, 1861.
1938	Griffin, Thomas.			
	Griffith, J. K., and A. Houpt. (See Houpt & Griffith.)			
1282	Grimes, William C.	Philadelphia, Pa.	City railroads.	May 14, 1861.
2578	Grimshaw, Christopher.	Milwaukee, Wis.	Breech loading ordnance.	Oct. 29, 1861.
1217	Griscom, William M.	Philadelphia, Pa.	Shutter fastener.	April 30, 1861.
1863	Griswold, G. G.	Chester, Conn.	Skates.	July 23, 1861.
2618	Griswold, George W., assignor to A. C. Sisson.	Abington, Pa.	Spring bottom for beds, chairs, &c.	Oct. 29, 1861.
1828	Griswold, M. R., and O. B. Bailey.	Watertown, Conn.	Swifts.	July 16, 1861.
	Griswold, P., and H. H. Seely. (See Seely & Griswold.)			
2832	Gross, Henry.	Tiffin, Ohio.	Revolving fire-arm.	Dec. 3, 1861.
2243	Grossjean, Florian.	New York, N. Y.	Process of making iron spoons.	Sept. 10, 1861.
1472	Grout, M., and C. Lawton.	Oak Grove, Wis.	Seeding machines.	June 4, 1861.
	Grover & Baker Sewing Machine Co. (See Hook, Albert H.)			
	Grover & Baker Sewing Machine Co. (See Bollman, Louis.)			
	Grover & Baker Sewing Machine Co. (See Bollman, Louis.)			
2936	Grover, William O.	Boston, Mass.	Sewing machines.	Dec. 24, 1861.
139	Grover, W. O., and Wm. E. Baker, assignors to Grover & Baker Sewing Machine Company.	Boston, Mass.	Sewing machines. (Reissue)	Dec. 3, 1861.
2774	Grover, William O.	Boston, Mass.	Sewing machines.	Nov. 26, 1861.
1283	Grumel, F. R.	Geneva, Switzerland.	Photographic album.	May 14, 1861.
1556	Gum, Joseph and St. Clair.	Marseilles, Ill.	Cultivators.	June 18, 1861.
1099	Gummer, Albert, assignor to self and Gustavus Zscheck.	Indianapolis, Ind.	Lath machines.	April 16, 1861.
2480	Gunn, D. M., and C. L. Cain.	Oskaloosa, Iowa.	Bee hives.	Oct. 15, 1861.
1128	Gunn, John.	Worcester, Mass.	Steam trap.	April 23, 1861.
2183	Gurley, G. B., and O. G. Brady.	New York, N. Y.	Cot, lounge, and chair.	Sept. 3, 1861.
	Gurney, Benjamin, et al. (See De Brame, J. A., assignor.)			
	Gurney, Benjamin, et al. (See De Brame, J. A., assignor.)			
	Gurney, Jeremiah. (See De Brame, J. A., assignor.)			
	Gurney, Jeremiah. (See De Brame, J. A., assignor.)			
2244	Guy, W. H.	Jonesville, Mich.	Cheese press.	Sept. 10, 1861.
1243	Guyer, Earl.	Wolcott, Vt.	Vegetable cutters.	May 7, 1861.
2136	Gwynn, John J.	Plainfield, N. J.	Lamps.	Aug. 27, 1861.
1218	Gwynne, W. H.	New York, N. Y.	Apparatus for naphthalizing gas.	April 30, 1861.
2245	Gwynne, W. H.	New York, N. Y.	Apparatus for the manufacture of water gas.	Sept. 10, 1861.
2880	Gwynne, W. H., assignor to self, C. A. Bumer, and H. G. Norton.	New York, N. Y.	Machinery for rifling guns.	Dec. 10, 1861.

List of patents of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
509	Haasz, D. T., assignor to self and Thomas Nash	Philadelphia, Pa.	Apparatus for ascertaining fares taken on public conveyances.	Feb. 19, 1861.
1059	Haag, Joel, and J. C. Smith	Bernville, Pa.	Water wheels.	April 16, 1861.
	Hacker, W. A. (See Stoddard, J. C., assignor.)			
11	Hackett, Nicholas	Albany, N. Y.	Chimney top.	Jan. 1, 1861.
	Hackett, U. S., et al. (See Glenn, Ball & Hackett.)			
1864	Hagans, H.	Brandonville, Va.	Churn	July 23, 1861.
	Hageman, A., et al. (See Weitman, Christian, assignor.)			
967	Haight, James O.	Albany, N. Y.	Pistons of steam-engines	April 9, 1861.
	Hailes, Wm., and J. G. Treadwell. (See Treadwell & Hailes.)			
92	Hainemann, Sampson, assignor to self and Julius Negbauer.	New York, N. Y.	Trade-mark design. (Design)	Feb. 26, 1861.
1512	Hames, David.	Union Bridge, Md.	Hominy machines.	June 11, 1861.
	Hale, Atterbury & Co. (See Reighard, Jacob, assignor.)			
1829	Hale, Charles E.	Millbury, Mass.	Skates	July 16, 1861.
709	Hale, Elias J.	Foxcroft, Me.	Lanterns	Mar. 19, 1861.
710	Hale, James, and J. S. Atterbury	Pittsburg, Pa.	Lanterns	Mar. 19, 1861.
2189	Hale, Robert.	Roxbury, Mass.	Pipe coupling	Sept. 3, 1861.
105	Hall, Andrew M., assignor to James A. Saxton	West Falmouth, Me.	Mowing machines. (Reissue)	July 9, 1861.
2077	Hall, E. A.	Jacksonville, Ind.	Washing machines.	Aug. 20, 1861.
2970	Hall, E. J., assignor to self and C. P. Stimets.	Highgate, Vt.	Spring caster.	Dec. 17, 1861.
1259	Hall, Ezra G., assignor to self and Wm. F. Drake.	New York, N. Y.	Nail machine.	May 7, 1861.
1129	Hall, Francis B.	Hartford, Conn.	Instrument for registering reciprocating and rotary motion.	April 23, 1861.
1219	Hall, Francis B.	Hartford, Conn.	Car coupling.	April 30, 1861.
2137	Hall, Gardiner, jr.	West Willington, Conn.	Thread-dressing machines.	Aug. 27, 1861.
	Halt, George, and Reuben Raden. (See Hatfield, W. E., ass'rs.)			
1357	Halt, Henry A.	Boston, Mass.	Portable filter.	May 21, 1861.
308	Halt, Thomas Q.	Fairfield, Iowa.	Extension table.	Feb. 5, 1861.
1230	Halter, William L.	Philadelphia, Pa.	Scrubbing brush.	April 30, 1861.
2521	Hamel, George	Abington, Pa.	Stoves.	Oct. 22, 1861.
2637	Hamill, Samuel S.	East Cambridge, Mass.	Railroad switch.	Nov. 12, 1861.
2765	Hamilton, Arnold	Broad Brook, Conn.	Breech-loading fire-arms	Nov. 19, 1861.
2639	Hamilton, Daniel S.	Elmira, N. Y.	Rotary pumps	Nov. 5, 1861.
1764	Hamilton, Edward	Chicago, Ill.	Breech-loading ordnance.	July 19, 1861.
2138	Hamilton, S. H.	Macomb, Ill.	Corn harvesters.	Aug. 27, 1861.
711	Hamilton, William	St. Catharine, Mo.	Churn.	Mar. 19, 1861.
309	Hammer, J. A., and J. P. Gordon.	Lisbon, Iowa.	Mole ploughs.	Feb. 5, 1861.
2139	Hammond, A. H.	Worcester, Mass.	Metallic reeds for musical instruments	Aug. 27, 1861.
	Hand, Edwin, et al. (See De Bolle, John M., assignor.)			
535	Hanes, Peter.	Edina, Mo.	Shoemaker's clamp	Feb. 26, 1861.
	Hanghian, P., and W. Jones. (See Jones & Hanghian.)			
	Hanlon Brothers. (See Morrison, E. R., assignor.)			
1865	Hanlon, William	Philadelphia, Pa.	Cricket wickets.	July 23, 1861.
2579	Hanlon, William & George	New York, N. Y.	Portable gymnasium	Oct. 29, 1861.
2580	Hannas, P. M.	Easton, Pa.	Water wheel	Oct. 29, 1861.
310	Hansbrow, Thomas	Sacramento, Cal.	Pumps	Feb. 5, 1861.
1358	Harsythy, Charles.	San Francisco, Cal.	Portable water gas apparatus	May 21, 1861.

	Harbison, J. S., and J. L. McPherson. (See McPherson & Harbison.)			
121	Harbison, J. S.	Sacramento, Cal.	Bee hives	Sept. 3, 1861.
2581	Harbottle, Thomas, and M. Field Fowler.	New York, N. Y.	Apparatus for directing water to, and maintaining continuous pressure upon, hydraulic rams.	Oct. 29, 1861.
95	{ Hardeman, Jno. Locke, deceased, by <i>mesne</i> assignments to William N. Whiteley.	Arrow Rock, Ill.	Machines for cutting hemp	June 18, 1861.
96	{ Hardeman, Jno. Locke, deceased, by <i>mesne</i> assignments to William N. Whiteley.	Springfield, Ohio		
97	{ Hardeman, Jno. Locke, deceased, by <i>mesne</i> assignments to William N. Whiteley.	Arrow Rock, Ill.	Machines for cutting hemp. (B division of, reissue)	June 18, 1861.
		Springfield, Ohio		
2190	Harder, Peter.	Danville, Pa.	Machines for cutting hemp. (C division of, reissue)	June 18, 1861.
1620	Hardie, Jason W.	New York, N. Y.	Cement for roofing purposes	Sept. 3, 1861.
2640	Hardie, J. W.	New York, N. Y.	Needle setter and threader for sewing machines	June 25, 1861.
2699	Hardie, J. W.	New York, N. Y.	Army trunks	Nov. 5, 1861.
311	Hardy, Charles.	Biddeford, Me.	Construction of knife and fork	Nov. 12, 1861.
968	Hardy, Charles.	Biddeford, Me.	Machinery for grinding the card-teeth of carding cylinders	Feb. 5, 1861.
593	Hardy, D. D., and J. J. Morris.	Cincinnati, Ohio	Lubricators for spinning machinery	April 9, 1861.
2078	Hardy, Peter J.	New York, N. Y.	Rotary pumps	Mar. 5, 1861.
234	Hardy, W. M., and Charles E.	East Strong, Maine	Camp chair	Aug. 20, 1861.
1229	Hargraves, T. C., assignor to H. M. Crane	Schenectady, N. Y.	Apple parer	Jan. 29, 1861.
2833	Hargraves, T. C.	Schenectady, N. Y.	Harvesting machines	April 30, 1861.
2937	Hargraves, T. C.	Schenectady, N. Y.	Broom vise	Dec. 3, 1861.
1223	Harlan, George.	Schenectady, N. Y.	Cutting apparatus of harvesters	Dec. 17, 1861.
639	Harold, Thomas George, assignor to self and Gibbons L. Kelty.	Brownsville, Ind.	Seeding machines	April 30, 1861.
2140	Harper, Henry W.	Brooklyn, N. Y.	Curtain fixture	March 5, 1861.
	Harper, James, and John H. Brown. (See Krauser, John L., assignor.)	Berlinsville, Pa.	Slate frames	Aug. 27, 1861.
2141	Harrah, W. D., B. S. Baldwin, and H. P. Jones	Davenport, Iowa	Seed drills	Aug. 27, 1861.
1130	Harrington, John R.	New York, N. Y.	Carpet linings	April 23, 1861.
	Harris, J., and R. R. Crosby. (See Crosby & Harris.)	New Carlisle, Ind.	Water wheels	Jan. 29, 1861.
235	Harris, Joel	Allensville, Ind.	Press for pressing hay, cotton, &c.	Aug. 20, 1861.
2079	Harris, John K.	Roxbury, Mass.	Adding machines	Jan. 1, 1861.
12	Harris, Joseph, jr.	Mansfield, Ohio	Binding attachment to harvesters	Feb. 26, 1861.
536	Harris, L. P.			
	Harrison, B. M., and E. Huddleston. (See Huddleston & Harrison.)	Burlington, Iowa	Mode of applying the bolsters in railroad car trucks	Nov. 19, 1861.
2735	Harrison, M. La Rue.			
	Harrison, Thomas. (See Chatfield & Dutcher, assignors.)			
426	Harroun, Sanford & Co. (See Hill, George J., assignor.)	New York, N. Y.	Rock drill	Feb. 12, 1861.
2142	Harsen, Wm., assignor to self and Francis N. Bangs.	Sycamore, Ill.	Washing machine	Aug. 27, 1861.
799	Harsba, M. S.	Brooklyn, N. Y.	Apparatus for indicating the position of water in steam boilers.	Mar. 26, 1861.
	Hart, Henry F.	Philadelphia, Pa.	Egg beater	Mar. 12, 1861.
659	Hart, Walter			
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
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No.	Name of patentee.	Residence.	Invention or discovery.	Date.
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
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	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
	Hartford Carpet Co. (See Thompson, Henry G., assignor.)			
	Hart, B. (See Shaw, Thomas, assignor.)		Clock escapements.....	
2938	Hart, William.....		Evaporating pan for saccharine juices.....	
380	Harter, J. V.....	Quincy, Ill.	Bee hives.....	Feb. 12, 1861.
1765	Hartley, N. D., and M. S. Motehouse.....	Fort Wayne, Ind.....	Bee hives.....	July 9, 1861.
314	Hartman, George R.....	New York, N. Y.....	Couch seats for railroad cars. (Additional improvement).....	Feb. 26, 1861.
	Hartman, John, jr.....			
	Hartshorn, William E. (See Luther, John M., assignor.)			
1686	Hartupee, Andrew.....	Pittsburg, Pa.....	Valve gear of steam-engines.....	July 2, 1861.
1321	Hartwig, Henry.....	New York, N. Y.....	Locks.....	April 30, 1861.
1222	Hartwig, Henry.....	New York, N. Y.....	Locks.....	April 30, 1861.
	Harvey, E. A., and D. McDaniel. (See McDaniel & Harvey.)			
712	Harvey, Samuel Thomas.....	Baltimore, Md.....	Stoves.....	Mar. 10, 1861.
381	Harwood, Irving J.....	Boston, Mass.....	Piano-forte action.....	Feb. 12, 1861.
	Haskell, Andrew L. (See Davis, L. M., assignor.)			
2342	Haskell, A. L., assignor to self and E. H. Ashcroft.....	Boston, Mass.....	Tents.....	Sept. 24, 1861.
	Haskins, J. P., and J. W. Barker. (See Barker & Haskins.)			
2080	Hassenpflug, Henry.....	Huntingdon, Pa.....	Lamps.....	Aug. 20, 1861.
	Hastings, E. and E. B. (See Knight, Luke L.)			
594	Hastings, John, and L. P. Gantier.....	San Francisco, Cal.....	Process of treating gold and silver ores.....	Mar. 5, 1861.
2384	Hatch, George W.....	Princeton, Ill.....	Tanning.....	Oct. 1, 1861.
	Hatch, T. C., et al. (See Sawyer, Howland, jr., & Hatch.)			
2863	Hatfield, W. E., assignor to Reuben Raden and Geo. Hall.....	Newark, N. J.....	Machines for sizing hat-bodies.....	Dec. 3, 1861.
13	Hathaway, Alfred.....	Charlestown, Mass.....	Skates.....	Jan. 1, 1861.
2385	Hathaway, Alfred.....	Charlestown, Mass.....	Paper-ruling machines.....	Oct. 1, 1861.
537	Hathaway, B. R.....	Mormon Island, Cal.....	Lifter for stove covers.....	Feb. 26, 1861.
2987	Hathaway, George C.....	Plymouth, Mass.....	Portfolio and writing tablet.....	Dec. 24, 1861.
14	{ Hathaway, H., and.....	{ Detroit, Mich.....	Apparatus for evaporating liquids.....	Jan. 1, 1861.
	{ B. Lathrop.....	{ Tolland, Conn.....		
	Hathaway, John M. (See Wuterich, Ferdinand, assignor.)			
	Hathaway, Samuel, et al. (See Earle, John E., assignor.)			
	Hathaway, Samuel, et al. (See Earle, John E., assignor.)			
236	Havemann, R. F. H.....	New Brunswick, N. J.....	Composition of caoutchouc.....	Jan. 22, 1861.
237	Havemann, R. F. H.....	New Brunswick, N. J.....	Composition of caoutchouc.....	Jan. 29, 1861.
2343	Haven, Rufus.....	Perrysville, Ind.....	Moth traps for bee hives.....	Sept. 24, 1861.
1473	Havens, Jonathan H.....	Troy, Ohio.....	Frames of buggy tops.....	June 4, 1861.
2191	Haviland, David A.....	Fort Dodge, Iowa.....	Boot legs.....	Sept. 3, 1861.
2641	Haviland, D. A., and A. S. Phillips.....	Fort Dodge, Iowa.....	Apparatus for handling hides in tanning.....	Nov. 5, 1861.
2143	Hawkins, Horace R.....	Akron, Ohio.....	Straw cutters.....	Aug. 27, 1861.
2060	Hawkins, L. D., assignor to Alfred Peabody.....	San Francisco, Cal.....	Machines for scouring, cleaning, and smutting rice, coffee, and other grain.....	Aug. 13, 1861.

2344	Hawley, H. Q.	Albany, N. Y.	Metres for water gas, &c.	Sept. 24, 1861.
2777	Hawley, R. K., and W. W. Maughlin.	Baltimore, Md.	Portable wooden tents.	Nov. 26, 1861.
56	Hawley, Samuel R.	New York, N. Y.	Hat (Design.)	May 28, 1861.
1909	Haworth, B., assignor to himself and B. F. Canaday.	Ridge Farm, Ill.	Joiners' bench vise.	July 23, 1861.
2192	Haworth, G. D.	Decatur, Ill.	Corn planters.	Sept. 3, 1861.
2172	Haworth, Wade H.	Towanda, Ill.	Cultivators.	Aug. 27, 1861.
713	Hay, Alexander.	Philadelphia, Pa.	Railroads.	Mar. 19, 1861.
69	Hayden, H. W.	Waterbury, Conn.	Mat for daguerreotype cases. (Design.)	June 25, 1861.
660	Hayden, Levi W.	Wilkesbarre, Pa.	Machine for crimping boots.	Mar. 12, 1861.
890	Hayes, Dennis.	New York, N. Y.	Pumps.	Mar. 26, 1861.
595	Hayes, George E.	Buffalo, N. Y.	Apparatus for vulcanizing caoutchouc.	Mar. 5, 1861.
2522	Hayes, Jabez W.	Newark, N. J.	Apparatus for printing bank notes.	Oct. 22, 1861.
59	Haynes, James, assignor to self and Tristram T. Lewis.	Hollis, Maine.	Device for straining wood saws.	Jan. 1, 1861.
882	Haynes, John.	Pembroke, Maine.	Machinery for operating fog-bells.	April 2, 1861.
2976	Hayward, D. E., et al. (See Pearson & Peabody, assignors.)	New London, Ohio.	Hames.	Sept. 10, 1861.
2700	Hazard, Rusel, assignor to self and Alexander Porter.	Bethany, Pa.	Moth trap for bee hives.	Nov. 12, 1861.
	Hazen, William J.	Springfield, Mass.	Machines for making cigars.	Aug. 6, 1861.
	Head, Jeremiah, et al. (See Fowler, John, jr., et al.)	Lowndes county, Ala.	Cotton cleaner.	Feb. 19, 1861.
1989	Heald, J. A.	Troy, N. Y.	Machines for making fire clay gas retorts.	Oct. 29, 1861.
452	Hearnse, Elisha A.	Salem, Ill.	Cultivators.	Mar. 12, 1861.
2619	Heartt, Jonas S., and Samuel English, assignors to Jonas S. Heartt, James Ostrander, and Joseph Ridgway.	New Haven, Conn.	Boots and shoes.	Oct. 8, 1861.
661	Heaton, C. W. S.	Neponset, Mass.	Burning fluid compositions.	Feb. 19, 1861.
2429	Heaton, David, 2d, et al. (See Williams, Turner, assignor.)	Philadelphia, Pa.	Copying presses.	May 21, 1861.
	Heaton, David, 2d. (See Williams, Turner, assignor.)	New York, N. Y.	Fireplace heater.	May 21, 1861.
453	Heath, William. (See Campbell, Edwin, assignor.)	St. Louis, Mo.	Manufacture of baskets.	Jan. 15, 1861.
1359	Hebard, Benjamin F.	Philadelphia, Pa.	Lamps.	April 2, 1861.
1360	Heckenroth, Charles Y.	Chicago, Ill.	Lamps.	May 7, 1861.
	Hedenberg, F. L.	Poughkeepsie, N. Y.	Journal boxes.	Dec. 24, 1861.
	Heermance, Garret G., and Joseph C. Tiffany. (See Tiffany & Heermance.)	Townsend, Ohio.	Machine for trimming heels of boots and shoes.	Mar. 12, 1861.
	Heffron, D. S. (See Worden & Leach, assignors.)	Deerfield, Pa.	Mop.	Oct. 1, 1861.
115	Hegarty, Thomas.	Albany, N. Y.	Stump machine.	Feb. 12, 1861.
883	Heidrich, Frederick.	Palmyra, Mo.	Stoves.	July 2, 1861.
1244	Heidrich, Frederick.	Franklin, Ind.	Hand looms.	Jan. 1, 1861.
2988	Heine, O. T. L., and E. Prussing.	McKeesport, Pa.	Beading rain gutters.	May 28, 1861.
662	Helms, Charles H.	Buffalo, N. Y.	Fireplace.	Sept. 24, 1861.
2386	Hemenway, Arthur.	Waterville, Maine.	Hemp brakes.	Jan. 22, 1861.
	Heming, G. H., and James S. Yerk. (See Yerk & Heming)	Akron, Ohio.	Spring bed bottom.	Oct. 1, 1861.
	Hemstreich, Z. H., et al. (See Bartoo, Jesse, assignor.)	Newark, N. J.	Tombstones.	Nov. 26, 1861.
382	Henderson, Daniel W.	New York, N. Y.	Breech-loading ordnance.	Nov. 5, 1861.
1687	Henderson, Joseph C.	New York, N. Y.	Canteen.	Oct. 29, 1861.
15	Henderson, John G.	New York, N. Y.	Underground receptacle for waste water.	Feb. 19, 1861.
1416	Henderson, William H.	Sandy Ridge, Ala.	Cotton seed planters.	Jan. 15, 1862.
2345	Hendrickson, James R.			
163	Heneage, Robert.			
2413	Hennessey, Edward, assignor to Cyrus Brett.			
2778	Henry, R. P., and G. W. Fox.			
2642	Henson, William S.			
2582	Herbert, Samuel.			
510	Herdfelder, George, assignor to self and C. Lammrich.			
116	Herlong, Daniel.			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of pateentee.	Residence.	Invention or discovery.	Date.
	Herrick, R. R., <i>et al.</i> (See Longacre, M. C., assignor.)			
164	Herring, C. L.	St. Louis, Mo	Gas regulators	Jan. 22, 1861.
969	Herrington, E. F. & J.	West Hoosick, N. Y.	Mowing machines	April 9, 1861.
383	Herron, Abial C.	West Farms, N. Y.	Car brakes	Feb. 12, 1861.
1557	Hersey, S. S.	Farmington, Maine	Apple parer	June 18, 1861.
46	Hewitt, Henry, assignor to W. A. Sanford.	San Francisco, Cal.	Seeding harrows	Mar. 19, 1861.
2430	Heyle, John Adam, assignor to self and John O'Brien	Boston, Mass.	Self-acting switches for horse railroads	Oct. 8, 1861.
2193	Hickman, J. A. C. & A. S.	Summerfield, Ill.	Corn planters	Sept. 3, 1861.
56	Hickok, W. O.	Harrisburg, Pa.	Mills for grinding apples	Mar. 26, 1861.
1284	Hicks, James M.	Boston, Mass.	Erasers	May 14, 1861.
801	Hicks, William Cleveland	Boston, Mass.	Sewing machines	Mar. 26, 1861.
1060	Hicks, William Cleveland	Boston, Mass.	Sewing machines	April 16, 1861.
1361	Hicks, William C.	Boston, Mass.	Blind fastening	May 21, 1861.
	Hicks, S. R., and S. L. Shotwell. (See Shotwell & Hicks.)			
2701	Higgins, George A.	New York, N. Y.	Camp stoves	Nov. 12, 1861.
76	Higgins, James	Manchester, Eng.	Stopping and starting cars	Jan. 8, 1861.
853	Higgins, J., and T. S. Whitworth	Salford, Eng.	Spinning machines. (Patented in England, Oct. 13, 1860).	Mar. 26, 1861.
1939	Higgins, James	Chicago, Ill.	Mosquito bar frame	July 30, 1861.
2834	Higley, Aaron	Sand Creek, Minn.	Grain separators	Dec. 3, 1861.
2643	Hildreth, B. G.	Philadelphia, Pa.	Sash supporter	Nov. 5, 1861.
1362	Hildreth, George W.	Lockport, N. Y.	Cultivators	May 21, 1861.
1547	Hill, Albert M., assignor to W. S. Kirkham	Branford, Conn.	Locks and knob latches	June 11, 1861.
1417	Hill, Albert V.	Carrollton, N. Y.	Fire-arms	May 28, 1861.
2835	Hill, Benjamin B.	Chicopee, Mass.	Shaft coupling	Dec. 3, 1861.
2864	Hill, B. B., assignor to self and H. R. Gardner	Chicopee, Mass.	Marking brand	Dec. 3, 1861.
346	Hill, George G., assignor to Sanford, Harroun & Co.	Buffalo, N. Y.	Machine for numbering railroad tickets	Feb. 5, 1861.
59	Hill, James M.	Angel's Camp, Cal.	Amalgamators	Jan. 1, 1861.
1558	Hill, Ralph L.	New York, N. Y.	Daguerreotype cases	June 18, 1861.
	Hill, S. L. (See Foster, D. P., assignor.)			
1990	Hill, Warren	East Smithfield, Pa.	Washboard	Aug. 6, 1861.
	Hills, W. S. & J. H., <i>et al.</i> (See Farrell, Joseph O., assignor.)			
2033	Hillard, James P.	Fall River, Mass.	Stop motion in spinning machinery	Aug. 13, 1861.
1184	Hilte, Prince	Mattapoisett, Mass.	Locks of fire-arms	April 30, 1861.
2061	Hilton, Samuel F., assignor to self and W. D. Hilton	Providence, R. I.	Cement for leather and other substances	Aug. 13, 1861.
2013	Hingher, Constantin, assignor to Novelty Rubber Company	New Brunswick, N. J.	Stems for smoking-pipes	Aug. 6, 1861.
1688	Hinkle, David	New Pittsburg, Ohio	Clover harvesters	July 2, 1861.
	Hinman, Botsford B., and Wm. E. Gaunt. (See Gaunt & Botsford.)			
2836	Hinman, John W.	Omro, Wis.	Buckles	Dec. 3, 1861.
1285	Hirschbühl, J. J.	Louisville, Ky.	Locks	May 14, 1861.
1418	Hirschbühl, J. J.	Louisville, Ky.	Vent-stoppers for ordnance	May 28, 1861.
1559	Hirschbühl, J. J.	Louisville, Ky.	Padlock	June 18, 1861.
238	Hitchcock, Robert	Watertown, N. Y.	Winding clocks	Jan. 29, 1861.
2246	Hitchcock, Robert	Watertown, N. Y.	Self-winding clocks	Sept. 10, 1861.
2034	Hitchcock, R. E.	Waterbury, Conn.	Picture buttons	Aug. 13, 1861.

239	Hitchcock, Silvester S.	Chicago, Ill.	Scales.	Jan. 29, 1861.
1185	Hitchings, D.	Richfield, N. Y.	Reapers and mowers.	April 30, 1861.
77	Hix, Wiley B.	Rome, Ga.	Arrangement of flues for drying tobacco.	Jan. 8, 1861.
1940	Hoadley, Joseph M.	Derby, Conn.	Skates.	July 30, 1861.
1844	Hoagland, J. W., assignor to self and Richard McMullen.	New Brunswick, N. J.	Pneumatic springs.	July 16, 1861.
35	Hoard, Charles B.	Watertown, N. Y.	Method of winding time-keepers by currents of air.	Feb. 19, 1861. (reissue.)
	Hoard, John W., and George B. Wiggin. (See Wiggin & Hoard.)			
511	Hobbs, Isaac H., assignor to self and Wm. H. Clarke.	Philadelphia, Pa.	Ruling guides for fountain pens.	Feb. 19, 1861.
1941	Hodge, Jerome N.	North White Creek, N. Y.	Machine for sawing and cutting wood.	July 30, 1861.
2989	Hodge, Samuel F.	Detroit, Mich.	Stamp head for quartz crusher.	Dec. 24, 1861.
2081	Hodgkins, C.	Marlboro', N. H.	Sewing machines.	Aug. 20, 1861.
	Hodgson, Wm., and Nathan Cope. (See Cope & Hodgson.)			
	Hoe, Richard M.	New York, N. Y.	Rotary printing presses. (Extension).	July 24, 1861.
1286	Hoff, Cornelius C.	New York, N. Y.	Composition for roofing.	May 14, 1861.
2736	Hoffman, A., and H. W. Limebeck.	Half Day, Ill.	Cultivators.	Nov. 19, 1861.
970	Hoffman, C., and W. Graichen.	Clinton, Mass.	Temples.	April 9, 1861.
	Hoffman, Charles, and Wm. Graichen.			
538	Hoffman, Henry.	New York, N. Y.	Steam boilers.	Feb. 26, 1861.
1621	Hoffman, Ludwig August.	Berlin, Prussia.	Galvanic metal friction brush.	June 25, 1861.
1766	Holbrook, Albert.	Providence, R. I.	Pickers.	July 9, 1861.
1767	Holbrook, Albert.	Providence, R. I.	Pickers.	July 9, 1861.
1474	Holcomb, Alfred G.	New York, N. Y.	Electro magnet.	June 4, 1861.
925	Holden, L. & S. B., assignors to themselves and J. O. Seelye.	Woburn, Mass.	Manufacture of boots and shoes.	April 2, 1861.
312	Holland, Goodrich.	Willimantic, Conn.	Machines for sorting silk and other thread.	Feb. 5, 1861.
454	Holland, Goodrich.	Willimantic, Conn.	Machines for sorting silk and other thread.	Feb. 19, 1861.
3032	Holland, G. F.	Leominster, Mass.	Mode of attaching breeching to shafts of carriages.	Dec. 24, 1861.
16	Hollen, Joseph.	Fostoria, Pa.	Knitting machines.	Jan. 1, 1861.
165	Holmes, Edward & Britain.	Buffalo, N. Y.	Stave machines.	Jan. 22, 1861.
455	Holmes, Edward & Britain.	Buffalo, N. Y.	Stave machine.	Feb. 19, 1861.
685	Holmes, Ezra Sprague, assignor to O. E. Holmes and Wm. Perrigo.	Wilson, N. Y.	Machine for pressing fruit in barrels, &c.	Mar. 12, 1861.
1287	Holmes, Henry S.	Lynn, Mass.	Congress gaiters.	May 14, 1861.
2808	Holmes, Reuben G., assignor to self and Jonathan Luther.	Worcester, Mass.	Clothes washer and wringer.	Nov. 26, 1861.
	Holmes, Thomas. (See Braidwood & Whiting, assignors.)			
	Holmes, T., and M. Merrill. (See Rowe, John L., assignor.)			
2881	Holmes, Thomas.	Williamsburg, N. Y.	Embalming.	Dec. 10, 1861.
117	Holmes, Willis.	Macomb, Ill.	Windmills.	Jan. 15, 1861.
1260	Holt, James G., assignor to Oscar G. Langi and Charles B. Brown.	Chicago, Ill.	Casting thimble boxes.	May 7, 1861.
2779	Holt, James Gilbert.	Chicago, Ill.	Casting seamless screw nuts.	Nov. 26, 1861.
141	Holt, John.	Gardner, Me.	Rolling pin. (Design).	Dec. 10, 1861.
1288	Homes, Nelson.	Laona, N. Y.	Broom clasp.	May 14, 1861.
971	Hood, Benjamin W.	Pawtucket, Mass.	Thimbles.	April 9, 1861.
347	Hook, Albert H., assignor to the Grover & Baker Sewing Machine Company.	New York, N. Y.	Sewing machines.	Feb. 5, 1861.
1560	Hooker, T. C.	Kendall, N. Y.	Harrows.	June 18, 1861.
1024	Hooper, Benjamin F., assignor to Eli N. Baldwin.	Birmingham, Conn.	Machine for making braces for carriage tops.	April 9, 1861.
	Hooper, Samuel Thompson. (See Osborne, J. W., assignor.)			
	Hooper, Samuel T. (See Osborne, J. W., assignor.)			
	Hooper, Wm. J., and R. Gournall. (See Gournall, Richard, assignor.)			
596	Hooton, James S.	New Carlisle, Ind.	Condenser and water heater for steam-engines.	Mar. 5, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1991	Hoover, James	Lewisburg, Ohio	Automatic boiler feeder	Aug. 6, 1861.
758	Hope, William H., assignor to Thomas B. Florence	Washington, D. C.	Machine for sweeping streets	Mar. 19, 1861.
1230	Hope, William H., assignor to Thomas B. Florence	Washington, D. C.	Street-sweeping machine	April 30, 1861.
2939	Hopkins, Harvey L.	Lebanon, N. Y.	Harvesters	Dec. 17, 1861.
2940	Hopkins, Obadiah	New York, N. Y.	Mounting and manœuvring cannon	Dec. 17, 1861.
802	Hopkins, William Bentley	Oakfield, N. Y.	Churn	Mar. 26, 1861.
	Hopper, Code & Gratz. (See Roberts, Edward, assignor.)			
972	Horalek, Edward	New York, N. Y.	Boilers for hot-water apparatus	April 9, 1861.
2035	Horde, Kellis	Philadelphia, Pa.	Hydraulic engine	Aug. 13, 1861.
1363	Hornbrook, Thipena P.	Wheeling, Va.	Bee hives	May 21, 1861.
	Horner, Joseph, and D. M. Edwards. (See Edwards & Horner.)			
1364	Horstmann, George H.	Philadelphia, Pa.	Dust pan	May 21, 1861.
2036	Horton, Chase B.	Elmira, N. Y.	Buckwheat hullers	Aug. 13, 1861.
	Horton, Depew & Son. (See Depew, Geo. W., assignor.)			
26	Horton, James, and John Martino, assignors to D. Stuart and R. Peterson.	Philadelphia, Pa.	Stoves (Design)	Mar. 19, 1861.
77	Horton, James, and John Martino, assignors to Stuart & Peterson.	Philadelphia, Pa.	Plates of a cooking stove (Design)	July 16, 1861.
76	Horton, James, and John Martino, assignors to Stuart & Peterson.	Philadelphia, Pa.	Plates of a parlor stove (Design)	July 16, 1861.
1365	Hoskings, Thomas H.	Detroit, Mich.	Machine for the application of man power	May 21, 1861.
1186	Hostler, Benjamin	Brookfield, N. Y.	Mill picks	April 30, 1861.
102	Hotchkiss, A., deceased, by A. A. Hotchkiss, administrator.	Sharon, Conn.	Projectiles for rifled ordnance (Reissue)	July 2, 1861.
144	Hotchkiss, Andrew, deceased, by A. A. Hotchkiss, admin'r.	Sharon, Conn.	Projectile for rifled ordnance (Reissue)	Dec. 24, 1861.
60	Hotchkiss, B. B.	Sharon, Conn.	Riveting currycombs	Jan. 1, 1861.
1289	Hotchkiss, B. B.	Sharon, Conn.	Projectile for rifled ordnance	May 14, 1861.
	Hotchkiss, G. C. & T. H. (See Webster, Joel, assignor.)			
119	Hotchkiss, Henry K.	Bristol, Conn.	Lock case (Design)	Oct. 29, 1861.
17	Hotchkiss, W. J.	Derby, Conn.	Link shackle of chain cables	Jan. 1, 1861.
78	Hotine, William	Brooklyn, N. Y.	Machine for mixing dough	Jan. 8, 1861.
	Hough, J. J., & Co. (See Pratt, H. S., assignor.)			
1992	Houpt, A., and J. K. Griffith	Reading, Penn.	Measuring faucet	Aug. 6, 1861.
118	Houston, J. D.	Pope's Depot, Miss.	Cotton scrapers	Jan. 15, 1861.
2387	Houston, William E.	New Haven, Conn.	Compositions for articles of ornamentation	Oct. 1, 1861.
	Hovey, William H. (See Stickney, Ancil, assignor.)			
	Howard, et al. (See Johnson & Bartlett, assignors.)			
1366	Howard, George C.	Philadelphia, Pa.	Machine for punching and perforating	May 21, 1861.
1689	Howard, George C.	Philadelphia, Pa.	Machines for perforating paper	July 2, 1861.
126	Howard, G. C., assignor to A. V., J. D. & F. Blanchard	Palmer, Mass.	Spade, shovel, or dung-fork handles (Reissue)	Oct. 22, 1861.
973	Howard, Jonathan	West Bridgewater, Mass.	Garden hoe	April 9, 1861.
1419	Howard, Sebree	Elyria, Ohio	Running gear of railroad cars	May 23, 1861.
1561	Howard, Samuel S.	Milton, N. Y.	Grinding mills	June 18, 1861.
	Howard, Thomas R., et al. (See Wright, Lewis R., assignor.)			
49	Howe, Elias, jr.	Brooklyn, N. Y.	Sewing machines (Reissue)	Mar. 19, 1861.

2216	Howe, Franklin L., assignor to self and J. H. Murdock	Woodstock, Vt.	Stump extractors	Sept. 17, 1861.
1290	Howe, H. J.	Onargo, Ill.	Corn planters	May 14, 1861.
	Howe, Jarvis, assignor to B. D. Godfrey	Millford, Mass.	Boot trees (Disclaimer)	Filed June 17, 1861.
2737	Howe, Otis	Cambridgeport, Mass.	Spring bed bottom	Nov. 19, 1861.
1513	Howell, Edward	Ashtabula, Ohio	Sewing machines	June 11, 1861.
598	Howell, Josiah	Sacramento, Cal.	Hemming guides	Mar. 5, 1861.
313	Howell, Martin A., jr. (See Elward, John H., assignor.)	Ottawa, Ill.	Mole ploughs	Feb. 5, 1861.
1291	Howell, Martin A., jr. (See Elward, John H., assignor.)	Adams, Mass.	Knitting machines	May 14, 1861.
	Howland, Shubael W.			
	Howland, W., jr., et al. (See Sawyer, Howland, J., & Hatch)			
597	Howlett, J. W.	Greensboro', N. C.	Sewing machines	Mar. 5, 1861.
974	Howlett, J. W.	Greensboro', N. C.	Transmitting motion	April 9, 1861.
384	Hoxsey, Thomas D.	Paterson, N. J.	Tape for spring skirts	Feb. 12, 1861.
2144	Hoyle, Benjamin, and A. Ralston	Martin's Ferry, Ohio	Threshing machines	Aug. 27, 1861.
2832	Hoyle, Benjamin	Martin's Ferry, Ohio	Threshing machines	Dec. 10, 1861.
2947	Hoyt, Ezra P.	New York, N. Y.	Securing carriage wheels to axles	Sept. 10, 1861.
1866	Hoyt, John	Cleveland, Ohio	Machines for drying paper	July 23, 1861.
314	Hubbard, George H.	New York, N. Y.	Enema syringes	Feb. 5, 1861.
2301	Hubbard, Moses G.	Syracuse, N. Y.	Driving power for spinners	Sept. 17, 1861.
456	Hubbell, Myron R.	Wolcott, Vt.	Vegetable cutter	Feb. 19, 1861.
	Hubbell, Peter. (See Blake, George F., assignor.)			
2738	Hubbell, William L.	Brooklyn, N. Y.	Means of attaching traces to carriages	Nov. 19, 1861.
759	Huckins, F., and E. C. R. Walker, assignors to Francis Huckins	Roxbury, Mass.	Apparatus for desiccating and torrefying farinaceous substances	Mar. 19, 1861.
975	{ Huddleston, E., and B. M. Harrison	Lawrence, Kansas	Presses	April 9, 1861.
1187	Hudson, H. H., and G. W. Billings	Terre Haute, Ind.	Water elevators	April 30, 1861.
1494	Hudson, Thomas S., assignor to Thomas Leighton	Cleveland, Ohio	Barometer inkstands	June 4, 1861.
1690	Hudson, William S.	East Cambridge, Mass.	Manufacturing tube sheets for boilers	July 2, 1861.
47	Hufnagle, Bernhard	Paterson, N. J.	Photographic baths (Reissue)	Mar. 19, 1861.
315	Hughes, Charles	New York, N. Y.	Hoop locks	Feb. 5, 1861.
2941	Hughes, Daniel	New Orleans, La.	Lamps	Dec. 17, 1861.
1245	Hughes, Elisha	Rochester, N. Y.	Making mining picks, &c.	May 7, 1861.
2194	Hughes, James	McCartysville, Cal.	Spring balance for safety valves of locomotive and other engines	Sept. 3, 1861.
		Seranton, Pa.	Railroad car couplings	Mar. 5, 1861.
599	Hughes, Robert M.	Pleasant Grove, Pa.	Stove cover litter and poker	Oct. 29, 1861.
2583	Huling, George J., and Albert Taplin	Providence, R. I.	Clothes dryer	April 9, 1861.
976	Hull, Duane	Newburg, N. Y.		
	Hull, John S., et al. (See Rosencrantz, E. D., assignor.)			
	Hull & Sims. (See Tarpiey, C. S., deceased.)			
18	Humbert, Prosper	Boston, Mass.	Lever escapement	Jan. 1, 1861.
539	Humbert, Prosper	Boston, Mass.	Chronometer escapement	Feb. 26, 1861.
	Humes, P. H., and W. C. Rentgen. (See Rentgen & Humes.)			
714	Humiston, Luther	New Haven, Conn.	Mode of attaching traces to whiffletrees	Mar. 19, 1861.
27	Humiston, Willis	Troy, N. Y.	Apparatus for moulding candles (Reissue)	Jan. 22, 1861.
26	Humiston, Willis	Troy, N. Y.	Machinery for moulding candles (Reissue)	Jan. 22, 1861.
1071	Humphreys, David	Cincinnati, Ohio	Corn planters	April 16, 1861.
385	Hunsicker, Henry	Lewisburg, Pa.	Machines for separating clover-seed, &c.	Feb. 12, 1861.
2837	Hunt, H. C.	Amboy, Ill.	Car couplings	Dec. 3, 1861.
1867	Hunt, Richard G.	New York, N. Y.	Machines for slotting gas sieves	July 23, 1861.
884	Hunt, R. W., and M. Kennedy	Galesburg, Ill.	Water elevators	April 2, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1398	Hunt, Walter, assignor to John W. and George G. Martin..	New York, N. Y.....	Lamps	May 21, 1861.
2461	Hunt, William P., and J. D. Spaulding, assignors to William P. Hunt.	Boston, Mass.....	Steering apparatus.....	Oct. 8, 1861.
1830	Hunt, Zebulon	Hudson, N. Y.....	Damper for stovepipes.....	July 16, 1861.
977	Hunter, Andrew	Solano county, Cal.....	Grain separators	April 9, 1861.
	Huntington, Wait T., and Hervey Platts. (See Mix, E. M. & J. E., assignors.)			
	Huntley, Bowman & Co. (See Landon, Fred'k, assignor.)			
	Huntley, Bowman & Co. (See Landon, Fred'k, assignor.)			
	Huntley, Bowman & Silliman. (See Landon, Frederick, assignor.)			
926	Huntley, Hosea H., assignors to Chamberlain & Co., assignors to selves and William Caven.	Cincinnati, Ohio.....	Cooking stoves	April 2, 1861.
2388	Hunzinger, George	Brooklyn, N. Y.	Reclining chair	Oct. 1, 1861.
	Hurlbut, E., et al. (See Steyer, Jeremiah, assignor.)			
1395	Hurlbut, E. F., assignor to N. S. Bouton	Chicago, Ill.	Patterns for thimble skeins	May 21, 1861.
	Hurlbut, E., et al. (See Randall, D. F., assignor.)			
386	Huse, William W.	Brooklyn, N. Y.	Cigar machines	Feb. 12, 1861.
	Hussey, Obed, by Eunice B. Hussey, administrator	Baltimore, Md.....	Reaping machines	Mar. 1, 1861.
	Hussey, Obed, by Eunice B. Hussey, administrator	Baltimore, Md.....	Reaping machines	Mar. 1, 1861.
	Hussey, Obed, by Eunice B. Hussey, administrator	Baltimore, Md.....	Reaping machines	Mar. 1, 1861.
	Hussey, Obed, by Eunice B. Hussey, administrator	Baltimore, Md.....	Reaping machines	Mar. 1, 1861.
	Husted, Andrew J., et al. (See De Bolle, John M., assignor.)			
2780	Huston, R. W.	Providence, R. I.	Stove cover lifters	Nov. 26, 1861.
885	Hutchings, S., and J. D. Leach	Penobscot, Me.....	Washing machine	April 2, 1861.
387	Hutchinson, Hiram	Newark, N. J.	Manufacture of India-rubber goods.....	Feb. 12, 1861.
1691	Hutchinson, James, assignor to Jona. E. Whipple	Lansingburg, N. Y.	Oil-cloth pattern	June 25, 1861.
1993	Hutchinson, John	Mattewan, N. Y.	Boat	July 2, 1861.
2082	Hutchinson, Thomas.....	Greenpoint, N. Y.	Excavators	Aug. 6, 1861.
457	Huwald, Guylave A.	Knoxville, Tenn.....	Apparatus for treating cane juices with sulphuric acid.....	Aug. 20, 1861.
1514	Hyatt, J. W. & J. S.	Chicago, Ill.	Knife sharpener	Feb. 19, 1861.
2702	Hyde, Ezra F.	Brooklyn, N. Y.	City railroads	June 11, 1861.
690	Hyde, J. B.	Newark, N. J.	Manufacture of manure from fish	Nov. 12, 1861.
686	Ide, Samuel	New York, N. Y.	Sewing machines.....	March 5, 1861.
186	Ingraham, Alfred	East Shelby, N. Y.	Bee hives	April 2, 1861.
803	Ingersoll, T. Dwight.....	Independence, Iowa	Tire heater.....	Jan. 22, 1861.
27	Ingraham, Elias	Monroe, Mich.	Culinary boiler.....	Mar. 26, 1861.
107	Ingraham, Elias	Bristol, Conn.	Clock-case front.....	Mar. 19, 1861.
139	Ingraham, Elias	Bristol, Conn.	Clock-case front.....	Sept. 3, 1861.
	Ingraham, H. C., and George S. Tiffany. (See Tiffany & Ingraham.)		Clock case	Dec. 3, 1861.
	Ingraham & Phillips. (See Vedder, N. S., assignor.)			
79	Ingram, James	New York, N. Y.....	Water-back for cooking ranges.....	Jan. 8, 1861.
	Ingram, James, et al. (See Poole, James, assignor.)			

2195	Inman, Stephen.....	Rockford, Ill.....	Gauges for clapboards.....	Sept. 3, 1861.
	Innis, William J., and Adin Alexander. (See Westland, Charles S., assignor.)			
663	Inskip, Isaiah G.....	West Middleburg, Ohio.....	Field fences.....	Mar. 12, 1861.
167	Irwin, Charles.....	Buffalo, N. Y.....	Sewing machines.....	Jan. 22, 1861.
2523	Irwin, Charles W.....	St. Louis, Mo.....	Cot bed.....	Oct. 22, 1861.
2942	Irwin, C. W.....	St. Louis, Mo.....	Camp chest.....	Dec. 17, 1861.
2584	Irwin, John H.....	Beardstown, Ill.....	Lamps.....	Oct. 29, 1861.
2781	Iske, Anthoni.....	Lancaster, Pa.....	Fire-escape ladders.....	Nov. 26, 1861.
	Iverson, H., and J. London. (See London & Iverson.)			
604	Ives, George.....	Detroit, Mich.....	Wood-saw horse.....	Mar. 5, 1861.
1768	Ives, George.....	Detroit, Mich.....	Ditching machine.....	July 9, 1861.
36	Jackson, Peter H.....	New York, N. Y.....	Ship winches..... (Reissue.)	Feb. 19, 1861.
1246	Jackson, William, and J. Clarke.....	Syracuse, N. Y.....	Churn.....	May 7, 1861.
1994	Jacobs, Cornelius.....	Columbus, Ohio.....	Pans for evaporating and clarifying saccharine juices.....	Aug. 6, 1861.
887	Jacob, T., and N. J. Wilkinson.....	St. Louis, Mo.....	Apparatus for purifying water.....	April 2, 1861.
1062	Jadwin, Rensalier.....	West Salem, Ohio.....	Apparatus for supplying steam boilers with water.....	April 16, 1861.
1420	James, Benjamin.....	Worcester, Mass.....	Machine for drying wool, &c.....	May 28, 1861.
1868	James, Joseph P.....	Pepin, Minn.....	Grab, or self-closing hook.....	July 23, 1861.
692	James, Josiah.....	Ogdensburg, N. Y.....	Mechanical movement.....	Mar. 5, 1861.
1562	Jamison, John P.....	New York, N. Y.....	Drawing instrument.....	June 18, 1861.
240	Jaqua, S.....	Paterson, N. J.....	Machine for rolling railway tire.....	Jan. 29, 1861.
1869	Jarboe, J. W., and A. Mackey.....	New York, N. Y.....	Drip pots for sugar moulds.....	July 23, 1861.
168	Jarrell, William.....	Trenton, Tenn.....	Ploughs.....	Jan. 22, 1861.
	Jarvis, J. W., & Co. (See Waterman, C. C. P., assignor.)			
2302	Jassath, G.....	New York, N. Y.....	Cartridge box.....	Sept. 17, 1861.
1692	Jebb, T. A., and Abner Cutler.....	Buffalo, N. Y.....	Skate.....	July 2, 1861.
1693	Jebb, Thomas H.....	Buffalo, N. Y.....	Churn.....	July 2, 1861.
2196	Jeffers, William.....	Pawtucket, R. I.....	Hose nozzles.....	Sept. 3, 1861.
1515	Jencks, George L.....	Providence, R. I.....	Hemming guides.....	June 11, 1861.
	Jenkins, C. C. (See Evans, H. W., assignor.)			
	Jenkins, Henry.....	Brooklyn, N. Y.....	Process of manufacturing wire grating, &c... (Extension.)..	Feb. 27, 1861.
686	Jenkins, J., assignor to J. C. Stimpson, W. D. Waters, M. W. Sheperd, and G. W. Keene.....	Lynn, Mass.....	Machine for applying heels to boots and shoes.....	Mar. 12, 1861.
	Jenkins, N., and Abner Cutler. (See Cutler & Jenkins.)			
	Jenks, Barton H. (See Shinn, John, assignor.)			
348	Jenks, L. P., assignor to William S. Murray.....	Boston, Mass.....	Filters.....	Feb. 5, 1861.
1632	Jenks, Lemuel P.....	Boston, Mass.....	Machine for detaching short fibres from cotton seed.....	June 25, 1861.
423	Jenne, Lansing K., assignor to self and William Ashley.....	Grand Rapids, Mich.....	Corn planters.....	Feb. 12, 1861.
1870	Jenness, John S.....	Bangor, Me.....	Electro magnet.....	July 23, 1861.
664	Jennings, George W.....	Boston, Mass.....	Mowing machines.....	Mar. 12, 1861.
2585	Jennings, John, jr.....	Natick, Mass.....	Spokeshaves.....	Oct. 29, 1861.
1367	Jennings, John H.....	New Bedford, Mass.....	Calk for horseshoes.....	May 21, 1861.
2277	Jennings, Lewis, assignor to self and R. Dickinson and Joseph C. Fuller.....	Brooklyn, N. Y.....	Filtering cup.....	Sept. 10, 1861.
1623	Jessup, Gilbert.....	Chapinville, N. Y.....	Seeding machines.....	June 25, 1861.
1396	Jewell, Ira, assignor to David M. Osborne.....	Wheaton, Ill.....	Harvesters.....	May 21, 1861.
169	Jewell, Levi.....	Stratham, N. H.....	Fire-escapes.....	Jan. 22, 1861.
	Jewett & Root. (See Stanard, Walter W., assignor.)			
	Jewett & Root. (See Stanard, Walter W., assignor.)			
	Jewett & Root. (See Stanard, Walter W., assignor.)			
715	Jinnett, Elsherry L.....	Vermillion county, Ill.....	Bee hives.....	Mar. 19, 1861.
2883	Joekel, William H.....	New York, N. Y.....	Seat for railroad cars and schools.....	Dec. 10, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2990	Joeckel, William H.	New York, N. Y.	Seat for schools, &c.	Dec. 24, 1861.
2524	Johns, William B.	Georgetown, D. C.	Convertible cloak and tent.	Oct. 22, 1861.
2992	Johns, William B.	Georgetown, D. C.	Saddle leggings.	Dec. 24, 1861.
2991	Johns, William B.	Georgetown, D. C.	Portable fireplaces.	Dec. 24, 1861.
61	Johnson, Alfred. (See Mahan, Charles, sr., assignor.)			
2389	Johnson, Albert F.	Boston, Mass.	Trade-mark. (Design)	May 28, 1861.
	Johnson, Algernon K., and Lorenzo Dow	Middletown, Conn.	Envelopes for cartridges.	Oct. 1, 1861.
	(Johnson & Bartlett, assignors to Gove & Howard, assigned to Singer & Clark.)	Boston, Mass.		
205		Stoneham, Mass.	Sewing machines.	Jan. 22, 1861.
1025	Johnson, Chester L., assignor to Colver, Allen M.	Little Falls, N. Y.	Rotary pump.	April 9, 1861.
1871	Johnson, Cecil G.	London, England.	Boots and shoes. (Patented in England April 2, 1860).	July 23, 1861.
458	Johnson, D. A.	Chelsea, Mass.	Mode of riveting the spokes and felloes of wooden wheels.	Feb. 19, 1861.
1942	Johnson, D. A.	Chelsea, Mass.	Mode of securing spokes in the felloes of wheels.	July 30, 1861.
51	Johnson, Frank G., assignor to self, W. T. B. Milliken, and E. Jones.	Brooklyn, N. Y.	Water metres.	Jan. 1, 1861.
316	Johnson, Frank G.	Brooklyn, N. Y.	Locks.	Feb. 5, 1861.
2884	Johnson, H. W.	Athens, Pa.	Washing machine.	Dec. 10, 1861.
2586	Johnson, Isalah.	Alliance, Ohio.	Non-swaggering gate-posts.	Oct. 29, 1861.
16	Johnson, Jasper.	Geneseo, N. Y.	Gate. (Reissue)	Jan. 8, 1861.
312	Johnson, Jasper.	Geneseo, N. Y.	Gate. (Additional improvement)	Jan. 29, 1861.
206	Johnson, Josee, assignor to self and John Ward, jr.	New York, N. Y.	Stilts.	Jan. 22, 1861.
349	Johnson, Josee, assignor to self and John Ward, jr.	New York, N. Y.	Folding table.	Feb. 5, 1861.
1731	Johnson, Leonard J., assignor to self and James E. Owens.	Philadelphia, Pa.	Match-holders.	July 2, 1861.
1694	Johnson, Nathaniel.	New York, N. Y.	Camp stool.	July 2, 1861.
350	Johnson, Stephen, assignor to self and Lyman E. Damon.	Cold Spring, N. Y.	Seed planters.	Feb. 5, 1861.
1063	Johnston, C.	Clarksville, Mo.	Shot pouches.	April 16, 1861.
978	Johnston, James J.	Alleghany, Pa.	Distillation of hydro-carbon oils.	April 9, 1861.
804	Johnston, Michael.	South Boston, Mass.	Cigar-holders.	Mar. 26, 1861.
2644	Jones, Abram H.	Fallsington, Pa.	Corn shelter.	Nov. 5, 1861.
1131	Jones, Alfred C.	Philadelphia, Pa.	Pipe joint.	April 23, 1861.
	Jones, E., et al. (See Johnson, Frank G., assignor.)			
2083	Jones, E. L., and M. E. Carter.	St. Louis, Mo.	Dovetailing machines.	Aug. 20, 1861.
	Jones, H. P. (See Harrah, Baldwin & Jones.)			
	Jones, James, et al. (See Sprague, Joseph W., assignor.)			
	Jones, Joseph W. (See Blythe, John O., assignor.)			
1368	{ Jones, John, and A. K. Rider.	{ New York, N. Y. Poultney, Vt.	Rotary pumps.	May 21, 1861.
	Jones & Lauth. (See Lauth, B., assignor.)			
2887	Jones, P. Franklin.	New York, N. Y.	Operating heavy guns.	Dec. 10, 1861.
	Jones, Rufus, et al. (See Felker, Valentine, assignor.)			
2145	Jones, Samuel F.	St. Paul, Ind.	Mole ploughs.	Aug. 27, 1861.
2024	Jones, Sylvanus D.	North Dighton, Mass.	Washing machine.	Aug. 20, 1861.
1831	Jones, S. R.	York, Pa.	Roofing.	July 16, 1861.
388	Jones, T. B.	Earlville, Ill.	Seeding machines.	Feb. 12, 1861.

Jones, Warren, Scofield & Wardwell. (See Warren, Scofield, Wardwell & Jones.)
 941 Jones, William
 1293 { Jones, William, and
 { P. Haughian
 Jordan, Joseph, jr., et al. (See Sweetland, Geo., assignor.)
 317 Jordan, Joseph, jr
 2431 Joslyn, Benjamin F.
 Joslin, William
 Joyce, J. L., and E. Heaton. (See Heaton & Joyce.)
 1475 Joynes, Richard F.
 1421 Joynes, Richard F.
 942 Judd, Edward M.
 979 Judson, Anson.
 2739 Judson, Junius.
 687 Juenst, George, assignor to J. McCrossman and T. J. McArthur.
 1476 Junkins, John H.
 Justice, L. W. (See Lathrop & Justice.)
 603 Kaefer, Mathaus.
 2645 Kaestner, August
 2037 Kaiser, Charles
 2038 Kaiser, Charles
 2703 Kaiser, Charles
 2243 Kaiser, Charles
 2838 Kane, P., and W. Floyd
 Kane, William J. (See Speer, James A., jr., assignor.)
 Kasefang, F., et al. (See Muller & Major, assignors.)
 459 Kaufman, Daniel
 1661 Kay, William R. and Henry E., assignors to themselves and Benjamin D. Kay.
 2146 Kearney, Lawrence
 2039 Keeling, E. F.
 3033 Keene, George W.
 Keene, Stimpson, Waters & Sheperd. (See Jenkins, J., assignor.)
 2248 Keep, E. J., and W. H. Briggs
 2197 Keese, R., D. T. Ward, and J. G. Wilkison
 1563 Keezer, John
 80 Ketter, John F.
 1564 { Kelley, E. G., and
 { A. H. Tait
 Kellogg, H. C., and Thomas Langdon. (See Langdon & Kellogg.)
 2646 Kellogg, O. W.
 116 Kells, P. H., assignor to Thomas H. Dodge
 117 Kells, P. H., assignor to Thomas H. Dodge
 118 Kells, P. H., assignor to Thomas H. Dodge
 119 Kells, P. H., assignor to Thomas H. Dodge
 Keltum, Eli. (See Birdsell, William H., assignor.)
 1872 Kelsey, E. A.
 2704 Kelsey, George R.
 Kely, Gibbon L., et al. (See Harold, Thos. Geo., assignor.)

St. Louis, Mo.
 Brooklyn, N. Y.
 New York, N. Y.
 East Hartford, Conn
 Worcester, Mass
 Cleveland, Ohio
 Bristol, R. I.
 Bristol, R. I.
 New Britain, Conn
 Brooklyn, N. Y.
 Rochester, N. Y.
 New York, N. Y.
 Upper Sandusky, Ohio
 Factoryville, N. Y.
 New York, N. Y.
 South Perry, Ohio
 Boiling Spring, Pa.
 Westery, R. I.
 New York, N. Y.
 Milton, Ohio
 Lynn, Mass.
 Stockton, Cal.
 Cardington, Ohio
 Chillicothe, Ohio
 Green Castle, Pa.
 New York, N. Y.
 Jersey City, N. J.
 Ripon, Wis.
 Washington, D. C.
 Washington, D. C.
 Washington, D. C.
 Washington, D. C.
 Meriden, Conn
 West Haven, Conn

Hemp brakes Jan. 29, 1861.
 Sewing machines May 14, 1861.
 Mills for grinding paper pulp Feb. 5, 1861.
 Fire-arms Oct. 8, 1861.
 Machinery for manufacturing cordage (Extension.) Jan. 15, 1861.
 Cultivators June 4, 1861.
 Steering apparatus May 28, 1861.
 Curtain fixtures Jan. 29, 1861.
 Lamps April 9, 1861.
 Governors for steam-engines Nov. 19, 1861.
 Sewing machines Mar. 12, 1861.
 Trusses of bridges June 4, 1861.
 Transmitting motion Mar. 5, 1861.
 Lamps Nov. 5, 1861.
 Engine for cutting saw teeth Aug. 13, 1861.
 Machine for grinding needle points Aug. 13, 1861.
 Machinery for making needles Nov. 12, 1861.
 Machines for polishing the eyes of needles Dec. 17, 1861.
 Burglar's alarm Dec. 3, 1861.
 Broom Feb. 19, 1861.
 Car brakes June 25, 1861.
 Washing machine Aug. 27, 1861.
 Harvester cutter grinder Aug. 13, 1861.
 Heels for boots and shoes Dec. 24, 1861.
 Horse-power machines Sept. 10, 1861.
 Flood gates Sept. 3, 1861.
 Cultivators June 18, 1861.
 Machine for sowing fertilizers Jan. 8, 1861.
 Apparatus for distilling oils June 18, 1861.
 Road scraper Nov. 5, 1861.
 Harvesters (Reissue.) Aug. 13, 1861.
 Harvesters (B, division of reissue.) Aug. 13, 1861.
 Harvesters (C, division of reissue.) Aug. 13, 1861.
 Harvesters (D, division of reissue.) Aug. 13, 1861.
 Coffee and tea pots July 23, 1861.
 Curtain fixture Nov. 12, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
	Kelty, Gibbon L. (See Maynard, Edward.)			
72	Kelty, Gibbon L.	New York, N. Y.	Window shade material (Design)	July 9, 1861.
716	Kendall, E. Dwight	New York, N. Y.	Apparatus for naphthalizing gas	Mar. 19, 1861.
2705	Kendall, J. B.	Boston, Mass.	Horseshoe (Reissue)	Nov. 12, 1861.
	Kendrick, Green. (See Stever, Jeremiah, assignor.)			
	Kendrick, Green, et al. (See Randall, D. F., assignor.)			
2147	Keniston, Charles	West Cambridge, Mass.	Shoe-pegging machine	Aug. 27, 1861.
	Kennedy, M., and R. W. Hunt. (See Hunt & Kennedy.)			
	Kennedy, M., and R. W. Hunt. (See Hunt & Kennedy.)			
1188	Kenyon, B. B., and Ira S. Brown.	Hopkinton, R. I.	Water wheels	April 30, 1861.
460	Kenyon, James P.	Brooklyn, N. Y.	Hydrants	Feb. 19, 1861.
1624	Kern, Davoust	York, Pa.	Process for preparing the flanking of leather for soling, &c.	June 25, 1861.
1422	Kerr, Patrick	New Bethlehem, Pa.	Furnaces for smelting iron ore	May 28, 1861.
3034	Kershaw, Robert	Philadelphia, Pa.	Gig mills	Dec. 24, 1861.
1769	Kesmodel, Frederick	San Francisco, Cal.	Apparatus for taking casts for pads	July 9, 1861.
57	Ketchum, William F.	Buffalo, N. Y.	Track clearers for harvesters (Reissue)	Mar. 26, 1861.
2085	Ketchum, William F.	Buffalo, N. Y.	Hand grenades	Aug. 20, 1861.
170	Kettell, Daniel G.	Worcester, Mass.	Harness, for preventing the fore legs of horses from interfering with.	Jan. 22, 1861.
	Ketting, William, and John Miller. (See Miller & Ketting.)			
1189	Kettler, Frederic.	Milwaukee, Wis.	Stump extractor	April 30, 1861.
	Kiefer, Jacob, and Gustavus Zchech. (See Zchech & Kiefer.)			
1943	Kieser, Charles	Baltimore, Md.	Machine for bending 5th wheels for wagons	July 30, 1861.
980	Kilbourn, J. K. & E. E.	Norfolk, Conn.	Knitting machines. (Patented in England April 20, 1859.)	April 9, 1861.
2888	Kilham, Henry	New Haven, Conn.	Stop for coach doors	Dec. 10, 1861.
2740	Kimball, Daniel S.	Lowell, Mass.	Carding engines	Nov. 19, 1861.
81	Kimball, E. W.	Ottawa, Ill.	Corn planters	Jan. 8, 1861.
19	Kimball, John C.	New Haven, Conn.	Self-adjusting carriage seats.	Jan. 1, 1861.
	Kiney, Henry, et al. (See Sweetland, George, assignor.)			
171	King, D. A., and T. Norris.	Lexington, Ky.	Dovetailing machine	Jan. 22, 1861.
	King, John, and George Wood. (See Wood & King.)			
1064	King, Thomas	West Farms, N. Y.	Power looms	April 16, 1861.
	King, Zenus, and P. M. Frees. (See Frees & King.)			
43	Kinman, Ira	Freeport, Ill.	Measuring faucets (Reissue)	Mar. 5, 1861.
2432	Kinsley, Edward G.	Stoughton, Mass.	Flexible soles	Oct. 8, 1861.
1516	Kinsley, Rhodolphus.	Springfield, Mass.	Bell-ringing apparatus	June 11, 1861.
	Kinzie, Sol., and G. B. Vroom. (See Vroom & Kinzie.)			
927	Kipling, H., assignor to J. B. Behrmann.	New York, N. Y.	Bracelets	April 2, 1861.
1190	Kirby, Archibald.	Paris, Ill.	Excavator	April 30, 1861.
1732	Kirby, William A., assignor to self and David M. Osborne.	Buffalo, N. Y.	Harvesting machines.	July 2, 1861.
105	Kirby, William A., assignor to self and David M. Osborne.	Auburn, N. Y.	Harvesters (Reissue)	July 9, 1861.
541	Kirchof, Charles.	New York, N. Y.	Method of integrating inconstant electric currents	Feb. 26, 1861.
1369	Kirchhoffer, George W.	Cincinnati, Ohio.	Apparatus for distilling coal oils.	May 21, 1861.
2886	Kirk, Edward, jr.	New York, N. Y.	Cook stoves	Dec. 10, 1861.

1517	Kirkham, W. S.	Branford, Conn.	Locks and knob latches.	June 11, 1861.
	Kirkham, W. S. (See Hill, Albert M., assignor.)			
604	Kleiber, Jacob.	Memphis, Tennessee.	Swimming propeller.	Mar. 5, 1861.
1944	Klepper, Joseph.	Wooster, Ohio.	Tire-bending machine.	July 30, 1861.
	Klinefelter, Jesse, et al. (See Schilling, William, assignor.)			
571	Knapp, A. H., assignor to self and George W. Tisdale.	Newton Centre, Mass.	Coal sifter and shovel.	Feb. 26, 1861.
845	Knapp, A. Haydon, assignor to self and Geo. W. Tisdale.	Newton Centre, Mass.	Scissors.	Mar. 26, 1861.
	Knapp, Alvin P. (See Sargent S., assignor.)			
2993	Knapp, George S.	Dubuque, Iowa.	Harvesters.	Dec. 24, 1861.
108	Knapp, Gilbert.	Honesdale, Pa.	Cooks' stove. (Design)	Sept. 3, 1861.
1397	Kneass, Strickland, assignor to Samuel James Creswell.	Philadelphia, Pa.	Sewer inlets.	May 21, 1861.
2885	Kneeland, William C.	Brooklyn, N. Y.	Cigars.	Dec. 10, 1861.
2995	Kniffen, L. G.	Worcester, Mass.	Cutting apparatus for harvesters.	Dec. 24, 1861.
2994	Kniffen, L. G.	Worcester, Mass.	Mowing machines.	Dec. 24, 1861.
1294	Knight, Henry.	Jersey City, N. J.	Manufacture of hydraulic cement pipes.	May 14, 1861.
2148	Knight, Henry.	Jersey City, N. J.	Combination cement and metal pipes.	Aug. 27, 1861.
1100	Knight, Luke L., assignor to E. and E. B. Hastings.	Barre, Mass.	Clothes frame.	April 16, 1861.
172	Knowles, Benjamin F., and John A. Dyer. (See Dyer & Knowlton.)	Providence, R. I.	Harness motion for looms.	Jan. 22, 1861.
	Knowlton, H. C., and John A. Dyer. (See Dyer & Knowlton.)			
1565	Knox, M. J.	Knox Corners, N. Y.	Clothes frame.	June 18, 1861.
1874	Kober, G.	New York, N. Y.	Water metres.	July 23, 1861.
1370	Koch, John C.	New York, N. Y.	Portfolios for filing music, printed matter, &c.	May 21, 1861.
1423	Kohler, Ambrose.	Boston, Mass.	Heating apparatus.	May 28, 1861.
2547	Kollinsky, C., J. Ehrlich, and Albert J. de Zeyk.	Washington, D. C.	Military fatigue caps.	Nov. 5, 1861.
1625	Korn, Charles.	Meriden, Conn.	Machine for dressing leather.	June 25, 1861.
1566	Krause, Frederick W., and G. W. Strong.	Chicago, Ill.	Grinding mill.	June 18, 1861.
2014	Krauser, John L., assignor to self, James Harper, and John H. Brown.	Philadelphia, Pa.	Nail machine.	Aug. 6, 1861.
	Kreps, Henry, and Charles O'Bryan. (See O'Bryan & Kreps.)			
1132	Kuhlschmidt, W.	New York, N. Y.	Button fastenings.	April 23, 1861.
1626	Kuhn, Jacob.	Centreville, Pa.	Machine for hulling and cleaning clover seed.	June 25, 1861.
2414	Kums, Theodore F., assignor to Mary Manny.	Rockford, Ill.	Automatic rakes for harvesters.	Oct. 1, 1861.
2415	Kums, Theodore F., assignor to Mary Manny.	Rockford, Ill.	Automatic rakes for harvesters.	Oct. 1, 1861.
2416	Kums, Theodore F., assignor to Mary Manny.	Rockford, Ill.	Automatic rakes for harvesters.	Oct. 1, 1861.
173	Lu Bau, J. H.	New York, N. Y.	Machines for finishing hats.	Jan. 22, 1861.
2889	Laeroix, Eugene, jr.	Rouen, France.	Marine propeller.	Dec. 10, 1861.
1695	Ladd, A. W. F.	San Francisco, Cal.	Faucets.	July 2, 1861.
981	Lang, John.	Hoboken, N. J.	Gas generating steam boiler.	April 9, 1861.
2421	Lair, J. A. F.	France.	Process for reducing copies of engravings, &c.	Oct. 15, 1861.
2944	Lairdieson, John L.	Troy, N. Y.	Apparatus for varnishing loom handles.	Dec. 17, 1861.
9	Lake, Jesse S. and David, assignors to James A. Saxton.	Smith's Landing, N. J.	Grass harvesters. (Reissue.)	Jan. 1, 1861.
10	Lake, Jesse S. and David, assignors to James A. Saxton.	Canton, Ohio.	Grass harvesters. (Division of reissue.)	Jan. 1, 1861.
11	Lake, Jesse S. and David, assignors to James A. Saxton.	Smith's Landing, N. J.	Grass harvesters. (Division of reissue.)	Jan. 1, 1861.
12	Lake, Jesse S. and David, assignors to James A. Saxton.	Canton, Ohio.	Grass harvesters. (Division of reissue.)	Jan. 1, 1861.
	Lake, Nelson, et al. (See Reese, Gould & Lake.)	Smith's Landing, N. J.	Grass harvesters. (Division of reissue.)	Jan. 1, 1861.
	Lamb, Anthony.	Cambridge, Mass.	Bookcase.	April 16, 1861.
2433	Lamb, Noyes D.	Norwich, Conn.	Alarm whistles.	Oct. 8, 1861.
1875	Lambert, Benjamin.	Warren street, Dover road, England.	Treatment of printed paper to remove ink and recover the pulp. (Patented in England July 6, 1861.)	July 23, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2246	Lammrich, C., et al. (See Herdtfelder, George, assignor.) La Moue, B. J..... Lancaster, P., and Charles Powers. (See Powers & Lancaster.)	New York, N. Y.....	Metallic cars for railroads.....	Sept. 24, 1861.
1477	Landell, John H.....	Newark, N. J.....	Tent fixtures.....	June 4, 1861.
142	Landell, John H.....	Newark, N. J.....	Tent fixtures..... (Reissue).....	Dec. 17, 1861.
665	Laudis, Jacob H.....	Eden, Pa.....	Meat chopper.....	Mar. 12, 1861.
67	Landon, Frederick, assignor to Huntley, Bowman & Co.....	Brockport, N. Y.....	Harvesters..... (A, reissue).....	April 16, 1861.
66	Landon, Frederick, assignor to Huntley, Bowman & Co.....	Brockport, N. Y.....	Harvesters..... (Div. B, of reissue).....	April 16, 1861.
1442	Landon, Frederick, assignor to B. E. Huntley, John M. Bowman, and Lafayette Silliman.	Brockport, N. Y.....	Harvesters.....	May 28, 1861.
1478	Lane, Conrad M.....	Cincinnati, Ohio.....	Hinges.....	June 4, 1861.
1770	Lane, Dennis.....	Plainfield, Vt.....	Method of "setting the log" in saw-mills.....	July 9, 1861.
1567	Lane, George.....	New York, N. Y.....	Rulers.....	June 18, 1861.
2125	Lane, George C.....	Buffalo, N. Y.....	Camp chest.....	Oct. 22, 1861.
2761	Lane, John W., assignor to W. & B. Douglas.....	Newton, N. J.....	Pumps.....	Nov. 19, 1861.
2086	Lane, Marcus.....	Washington, D. C.....	Treating metals.....	Aug. 20, 1861.
2303	Lane, Marcus.....	Washington, D. C.....	Shoemaker's measures.....	Sept. 17, 1861.
2945	Lane, Marcus.....	Washington, D. C.....	Process of making iron and steel.....	Dec. 17, 1861.
243	Lanegan, Henry.....	East Cambridge, Mass.....	Deck light.....	Jan. 29, 1861.
207	Langdon, L. W., assignor to self, Hiram Wells, and D. G. Littlefield.	Northampton, Mass.....	Sewing machines.....	Jan. 22, 1861.
1295	Langdon, Thomas, and H. C. Kellogg..... Langi, Oscar G., and C. B. Brown. (See Holt, James G., assignor.)	Quasqueton, Iowa.....	Broom.....	May 14, 1861.
1662	Lanphear, Stephen E. (See Barrett, Oliver D., assignor.)	Troy, N. Y.....	Ploughs.....	June 25, 1861.
1832	Lape, Wm., assignor to self and F. R. Stow.....	Brooklyn, N. Y.....	Barometers.....	July 16, 1861.
2996	Large, Joseph T.....	New York, N. Y.....	Car brakes.....	Dec. 24, 1861.
640	Lashler, C. B. and H. Hathaway. (See Hathaway & Lathrop.) Lathrop, B. W., and L. B. Justice, assignors to L. W. Lathrop Lathrop, L. W., and L. B. Justice, assignors to L. W. Lathrop Lathrop & Wetmore. (See Quann, William, assignor.)	Philadelphia, Pa.....	Sewing machines.....	Mar. 5, 1861.
542	Lauth, B., assignor to firm of Jones & Lauth.....	Pittsburg, Pa.....	Polishing iron bars or rods.....	Feb. 26, 1861.
244	Law, J., Alison.....	Meredith, N. Y.....	Fire-escapes.....	Jan. 29, 1861.
2040	Lawbaugh, G. W., and John Williams.....	Shanesville, Ohio.....	Cultivators.....	Aug. 13, 1861.
2149	{ Lawler, P. H., and John B. Dougherty.....	Spencerport, N. Y..... Rochester, N. Y.....	Machines for forming barrel-heads.....	Aug. 27, 1861.
2434	Lawrence, Calvin B.....	Nunda, N. Y.....	Metallic lubricating compositions.....	Oct. 8, 1861.
2087	Lawrence D. Clinton.....	Cedar Falls, Iowa.....	Pen-holder and letter balance.....	Aug. 20, 1861.
1876	Lawrence, H., and C. H. White..... Lawrence, Wm. (See Wood, George, and John King, ass'rs.) Lawton, C., and M. Grout. (See Grout & Lawton.)	Melrose, N. Y.....	Lock for the nuts of railroad bolts.....	July 23, 1861.
1696	Layton, John E.....	Pittsburg, Pa.....	Fireplaces.....	July 2, 1861.
2587	Layton, John E..... Leach, A., and L. J. Worden. (See Worden & Leach.)	Pittsburg, Pa.....	Back plate and chimney throat for fireplaces.....	Oct. 29, 1861.

	Leach, J. D., and S. Hutchings. (See Hutchings & Leach.)			
	Leake, Robert, jr., and Joseph Lockett. (See Whittam, Robert, assignor.)			
717	Leavens, John	Brooklyn, N. Y.	Pressure gauge	Mar. 19, 1861.
1637	Lebkücher, A.	Belleville, Ill.	Lubricating compound	June 25, 1861.
2347	Lecky, R. H.	Allegheny City, Pa.	Machine for drilling oil wells	Sept. 24, 1861.
2648	Le Due, Charles	Boston, Mass.	Safe locks	Nov. 5, 1861.
119	Lee, G. W., and A. R. Reese	Phillipsburg, N. J.	Seeding machines	Jan. 15, 1861.
1628	Lee, Joel	Galesburg, Ill.	Water elevators	June 25, 1861.
2348	Lee, Joel	Galesburg, Ill.	Washing machine	Sept. 24, 1861.
2349	Lee, Joel	Galesburg, Ill.	Clothes dryer	Sept. 24, 1861.
2741	Lee, Thomas	Newark, N. J.	Breech-loading fire-arm	Nov. 19, 1861.
2482	Lee, W. M.	Rosindale, Wis.	Bee hives	Oct. 15, 1861.
888	Leeds, Joseph	Philadelphia, Pa.	Furnaces for heating buildings	April 2, 1861.
389	Leeper, R. A., and Z. B. Kidder	San José, Ill.	Cultivators	Feb. 12, 1861.
2649	Lees, Josiah	Birmingham, England	Swivel hooks and rings. (Patented in England May 19, 1860.)	Nov. 5, 1861.
705	Lefaucheux, Eugene	Paris, France	Fire-arms	Mar. 28, 1861.
1331	Leffingwell, Chas. H., assignor to self and P. B. Carpenter	Providence, R. I.	Boot-legs	May 14, 1861.
461	Leffingwell, John G.	Newark, N. J.	Gas-cocks	Feb. 19, 1861.
889	{ Leffingwell, John G., and G. W. Thompson	Newark, N. J.	Gas-burners	April 2, 1861.
174	Lefler, Andrew B.	New York, N. Y.	Cultivators	Jan. 22, 1861.
1995	Legouge, Louis F. A.	Canton, Ind.	Quartz-crusher	Aug. 6, 1861.
20	Leibert, Henry	Grass Valley, Cal.	Lamps	Jan. 1, 1861.
	Leibrandt & McDowell. (See Smith & Brown, assignors.)	Norristown, Pa.		
	Leigh, Lewis, et al. (See Atwood & Leigh.)			
	Leighton, Thomas, et al. (See Hudson, Thomas S., ass'rs.)			
2536	Leisen, Charles F.	Philadelphia, Pa.	Breech-loading ordnance	Oct. 22, 1861.
3024	Leitch, J. F., assignor to Orrin D. Carter	Greene, N. Y.	Fan-blower	Dec. 24, 1861.
2527	Lefong, L., and J. Decamp	Newark, N. J.	Implement for feeding percussion caps	Oct. 22, 1861.
1296	Lenain, Denis	New York, N. Y.	Boots and shoes	May 14, 1861.
718	Lenoir, Jean J. E.	Paris, France	Air engine	Mar. 19, 1861.
2320	Leonard, Amos	Sullivan, Ohio	Boring machines	Sept. 17, 1861.
124	Leonard, Bridget, administratrix of Andrew Leonard, deceased.	Kenosha, Wis.	Mode of casting seamless skeins for wagons. (Reissue)	Oct. 8, 1861.
125	Leonard, Bridget, administratrix of Andrew Leonard, deceased.	Kenosha, Wis.	Cast seamless thimble-skeins for wagons. (Div. of reissue)	Oct. 8, 1861.
	Leopold, F. (See Veerkamp & Leopold.)			
245	Lett, John A.	Trumansburg, N. Y.	Adjustable carriage brakes	Jan. 29, 1861.
243	Letz, George F.	Chicago, Ill.	Rolling iron shutters	Jan. 29, 1861.
1906	{ Levalley, Benjamin, and B. Sterry	Hartford, Conn.	Temples	Aug. 6, 1861.
1771	Le Van, W. Barrett	Manchester, Conn.	Water-gauges for steam boilers	July 9, 1861.
	Levett, Morris, and Bridge Prodsham. (See Prodsham & Levett.)	Philadelphia, Pa.		
	Levrat, Henry. (See Millochan, Adolphe M., assignor.)			
982	Levy, Mark	New York, N. Y.	Retorts for the manufacture of gas from wood	April 9, 1861.
1877	Lewis, O. W.	Janesville, Wis.	Pumps	July 23, 1861.
1772	Lewis, Ezra H.	Witbur, N. Y.	Machines for polishing stone	July 9, 1861.
2249	Lewis, Ezra H.	Kingston, N. Y.	Stone-dressing machines	Sept. 10, 1861.
1629	Lewis, H. S.	Chicago, Ill.	Processes for refining tard	June 25, 1861.
61	Lewis, J. W.	Providence, R. I.	Blacking box holder	Jan. 1, 1861.
462	Lewis, Russell R.	New York, N. Y.	Vapor burners for heating, &c.	Feb. 19, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
983	Lewis, Triastam T., et al. (See Haynes, James, assignor.) Light, Richard B.	Dunkirk, N. Y.	Machinists' instrument for determining geometrical lines, centres, &c.	April 9, 1861.
2948	Lighthall, William A.	New York, N. Y.	Steam condenser	Dec. 17, 1861.
543	Lighthall, William A.	New York, N. Y.	Refrigerator for cooling the condensing water and condensed steam of steam engines.	Feb. 25, 1861.
605	Lighthall, William A.	New York, N. Y.	Method of supplying water to steam vessels for the purpose of condensing steam or cooling water.	Mar. 5, 1861.
984	Lighthall, William A.	New York, N. Y.	Feed-water apparatus for steam boilers	April 9, 1861.
1518	Lighthall, William A.	New York, N. Y.	Construction of tube-sheets for coolers and condensers.	June 11, 1861.
2947	Lighthall, William A.	New York, N. Y.	Condensers for steam-engines	Dec. 17, 1861.
2946	Lighthall, William A.	New York, N. Y.	Method of setting tubes for condensers	Dec. 17, 1861.
719	Lighter, Jacob.	Clay Village, Ky.	Medicinal compounds to cure hog cholera	Mar. 19, 1861.
	Limebeck, H. W., and A. Hoffman. (See Hoffman & Limebeck)			
	Lincoln, George S., & Co. (See Pratt, Francis A., ass'r.)			
544	Lindergreen, N. P., et al. (See Lofvendahl, Joseph, ass'r.)			
	Lindner, Edward	New York, N. Y.	Furniture caster	Feb. 26, 1861.
1945	Lindner, Edward	New York, N. Y.	Mode of preparing projectiles for ordnance	July 30, 1861.
19	Lindsay, Geo., and Wm. Cameron, assignors to Wm. Cameron.	Petersburg, Va.	Tobacco presses. (Reissue)	Jan. 15, 1861.
1630	Lindsley, Isaac	Providence, R. I.	Looms for weaving hair cloth	June 25, 1861.
1997	Lindsley, Thales	Moline, Ill.	Oar	Aug. 6, 1861.
390	Linton, Wm	Baltimore, Md.	Machines for moulding pottery	Feb. 12, 1861.
1697	Lippincott, John	Pittsburg, Pa.	Manufacture of shovels and spades.	July 2, 1861.
	Liquid Quartz Co. (See Vanderburgh, Geo. E., assignor.)			
	Litchfield, H. T. (See Porter, Rufus, assignor.)			
	Littell, J. S. (See Phillips, Geo. B., assignor.)			
	Littell, Jno. S. (See Phillips, Geo. B., assignor.)			
	Little, A. B., et al. (See Wells, Wm., assignor.)			
606	Little, R.	Middle Branch, Ohio	Device to prevent hogs from rooting.	Mar. 5, 1861.
1191	Little, William B.	New York, N. Y.	Sign	April 30, 1861.
1631	Littlefield, Dennis G.	Albany, N. Y.	Fire-pot for coal stoves.	June 25, 1861.
132	Littlefield, Dennis G.	Albany, N. Y.	Stoves (Reissue)	Nov. 19, 1861.
133	Littlefield, Dennis G.	Albany, N. Y.	Stoves (Division of reissue)	Nov. 19, 1861.
	Littlefield & Wells. (See Langdon, L. W., assignor.)			
	Littlejohn, Frederic S. (See Wyberd, John, assignor.)			
	Littlejohn, Hiram, and J. W. Valance. (See Valance & Littlejohn.)			
2350	Livingston, A. A.	Cedar Rapids, Iowa.	Stirrups	Sept. 24, 1861.
2390	Livingston, William H.	New York, N. Y.	Method of attaching handles to picks, &c.	Oct. 1, 1861.
463	Lobdell, George G.	Wilmington, Del.	Railroad car wheels	Feb. 19, 1861.
1192	Locke, Harvey	South Boston, Mass.	Pumps	April 30, 1861.
	Locke, Jesse A., et al. (See Davis, Joseph, assignor.)			
806	Locke, Wm. H.	Canton, Pa.	Scrolls of water wheels	Mar. 26, 1861.

	Lockett, Joseph, and Robert Leake, jr. (See Whittam, Robert, assignor.)			
1101	Lofvendahl, Jos., assignor to self, N. P. Lindergreen, and E. Ehlin	East Boston, Mass.	Button fastener	April 16, 1861.
666	Lombaert, Herman J.	Philadelphia, Pa.	Draught bars for railroad cars	Mar. 12, 1861.
668	Loudon, John, and H. Iversen	New York, N. Y.	Ventilators for windows	Mar. 12, 1861.
21	Long, John	Massillon, Ohio	Cooking stove (Design)	Feb. 19, 1861.
890	Long, Josiah, assignor to J. G. Wolf	Morristown, Ind.	Wagon brakes	April 2, 1861.
20	Long, Robt. H.	Philadelphia, Pa.	Arrangement of steam-engines for propelling street passenger cars. (Reissue.)	Jan. 15, 1861.
807	Long, Stephen H., U. S. A.	Alton, Ill.	Dredging machine	Mar. 26, 1861.
846	Long, W. A. N., assignor to I. B. Rand	Fisherville, N. H.	Bed foundation	Mar. 26, 1861.
2041	Long, Wm. A. N., assignor to I. B. Rand	Fisherville, N. H.	Rocking cradle	Aug. 13, 1861.
	Long, W. A. N., and Isaac B. Rand. (See Rand & Long.)			
351	Longacre, M. C., assignor to self and R. R. Herrick	Cleveland, Ohio	Churn	Feb. 5, 1861.
73	Loper, Richard F.	Philadelphia, Pa.	Ship building (Reissue)	May 7, 1861.
17	Loper, Richard F.	Philadelphia, Pa.	Ship building (Extension)	Nov. 6, 1861.
2890	Lord, Charles W.	New York, N. Y.	Pen and pencil case	Dec. 10, 1861.
667	Lord, M. B. & S. J.	Ellsworth, Maine	Brakes for sleighs	Mar. 12, 1861.
2304	Lord, Richard	Pawtucket, Mass.	Air engines	Sept. 17, 1861.
2650	Lorton, Alfred H.	New York, N. Y.	Potato masher	Nov. 5, 1861.
136	Louis, Peter, assignor to self and Hiram Wendel	New York, N. Y.	Stopping and starting railroad cars	Jan. 15, 1861.
2833	Lounsbury, Mark	Seymour, Conn.	Fruit gatherers	Dec. 3, 1861.
2528	Love, John B.	Philadelphia, Pa.	Means of attaching armor to navigable vessels and water batteries.	Oct. 22, 1861.
175	Loveless, C. B.	Tom's River, N. J.	Vapor lamps	Jan. 22, 1861.
1519	Lowe, Henry	Baltimore, Md.	Manufacture of caustic soda	June 11, 1861.
2449	Lowe, Henry	Baltimore, Md.	Process of recovering soda used in manufacture of paper stock	Dec. 17, 1861.
2088	Lowe, Henry	Baltimore, Md.	Paper pulp or stock	Aug. 20, 1861.
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
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	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
	Lowell Manufacturing Co. (See Ney, Elemir J., assignor.)			
1066	Loury, Thomas J.	Conneautville, Pa.	Transmitting power	April 16, 1861.
1332	Luce, C. O., assignor to self, Strong, & Estabrook	Brandon, Vt.	Washing machine	May 14, 1861.
2391	Luckhaupt, Adam	Columbus, Ohio	Wood-bending machines	Oct. 1, 1861.
464	Ludden, William A.	Brooklyn, N. Y.	Smoking tubes	Feb. 19, 1861.
2305	Ludlow, H. G., 2d.	Waterford, N. Y.	Sliding stop-valves	Sept. 17, 1861.
1998	Ludlow, W. D.	New York, N. Y.	Stopping jars, &c.	Aug. 6, 1861.
1067	Lull, George	Hardin, Iowa	Grain separators	April 16, 1861.
1068	Luther, Curtis	Newbury, Ohio	Wheelwright's machine	April 16, 1861.
2721	Luther, John M., assignor to William E. Hartshorn	Salina, N. Y.	Process of purifying brine for manufacture of salt	Nov. 12, 1861.
	Luther, Jonathan. (See Holmes, Reuben G., assignor.)			
891	Lynah, David. (See Holmes, Reuben G., assignor.)	Middlefield, Conn.	Mode of attaching clothes wringer to a tub	April 2, 1861.
135	Lynch, Edward	Washington, D. C.	Steam-engines (Reissue.)	Dec. 3, 1861.
	Lynd, Ives. (See Clint & Lynd.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
720	Lyon, Samuel H., and William E. Doubleday.....	Brooklyn, N. Y.....	Bonnets.....	Mar. 19, 1861.
808	L Lyons, James B.....	Baltimore, Md.....	Stump extractor.....	Mar. 26, 1861.
142	L Lyons, Thomas, assignor to Russell & Erwin Manufacturing Company.....	New Britain, Conn.....	Horse spur..... (Design.).....	Dec. 24, 1861.
1424	Mang, Jacob.....	Milwaukee, Wis.....	Wind wheel.....	May 26, 1861.
22	Mack, Albert G.....	Rochester, N. Y.....	Machine for setting up barrels.....	Jan. 1, 1861.
139	Mackay, John S., assignor to self and Hugh Mackay.....	Brooklyn, N. Y.....	Mending fire-engine hose.....	Jan. 15, 1861.
1663	Mackay, Walter G., assignor to Peter P. Cornen.....	New York, N. Y.....	Machine for bronzing wall paper, &c.....	June 25, 1861.
2706	Mackenzie, John W.....	Brooklyn, N. Y.....	Fire-escape.....	Nov. 12, 1861.
	Mackey, A., and J. W. Jarboe. (See Jarboe & Mackey.)			
2351	Maddock, John.....	Dubuque, Iowa.....	Hounds of carriages.....	Sept. 24, 1861.
1160	Magee, John, assignor to self and William J. Town.....	Lawrence, Mass.....	Stoves.....	April 23, 1861.
2915	Magee, John, assignor to Norton Furnace Company.....	Boston, Mass.....	Stove grates.....	Dec. 10, 1861.
892	Magersuppe, George H.....	New York, N. Y.....	Lanterns.....	April 2, 1861.
2620	Mahan, Charles, sr., assignor to self and Alfred Johnson.....	Jamestown, Ohio.....	Clod crusher.....	Oct. 29, 1861.
	Maher, Edmund, and William McCord. (See McCord & Maher.)			
809	Main, William H.....	Liverpool, Ohio.....	Rotary harrows.....	Mar. 26, 1861.
	Majer, C., et al. (See Muller & Majer, assignors.)			
607	Mallette, G. B.....	Millport, N. Y.....	Portable field fences.....	Mar. 5, 1861.
893	Mallory, George H.....	New York, N. Y.....	Sewing machines.....	April 2, 1861.
810	Mallory, James E.....	New York, N. Y.....	Preparation of fibre for the manufacture of paper.....	Mar. 26, 1861.
545	Maly, Daniel H.....	Temperance, Ga.....	Ploughs.....	Feb. 26, 1861.
	Mangels, H. C., et al. (See Behr, Edward, assignor.)			
465	Manley, J. G., and F. Wedge.....	Zanesville, Ohio.....	Earth-boring machine.....	Feb. 19, 1861.
3022	Mann, Bela A., assignor to Jedediah Wilcox & H. H. Miller.....	West Meriden, Conn.....	Machine for clasping hoops to ladies' skirts.....	Dec. 24, 1861.
2552	Mann, Charles G., assignor to Alfred B. Ely.....	Walpole, Mass.....	Sewing machines.....	Oct. 22, 1861.
1133	Mann, Donald.....	Rochester, N. Y.....	Rotary spading machines.....	April 23, 1861.
1568	Mann, George, jr.....	Ottawa, Ill.....	Safety guard for steam boilers.....	June 18, 1861.
1069	Mann, Henry F.....	Laporte, Ind.....	Ploughs.....	April 16, 1861.
2783	Mann, Henry F.....	Laporte, Ind.....	Breech-loading ordnance.....	Nov. 26, 1861.
928	Mann, Robert J., assignor to Lewis A. Osborn and Isaac J. Vincent.....	Brooklyn, N. Y.....	Method of manufacturing skeleton skirts.....	April 2, 1861.
2198	Mann, Robert J.....	Seneca Falls, N. Y.....	Metallic sleds.....	Sept. 3, 1861.
1193	Manny, Frederick H.....	Rockford, Ill.....	Harvesting machines.....	April 30, 1861.
	Manny, Mary. (See Emerson, Daniel S., assignor.)			
	Manny, Mary. (See Kurns, Theodore F., assignor.)			
	Manny, Mary. (See Kurns, Theodore F., assignor.)			
	Manny, Mary. (See Kurns, Theodore F., assignor.)			
318	Manross, Newton S.....	Forestville, Conn.....	Apparatus for lighting and extinguishing gas lights.....	Feb. 5, 1861.
2392	Mansfield, George A.....	Boston, Mass.....	Boots and shoes.....	Oct. 1, 1861.
391	Mansfield, M. H.....	Ashland, Ohio.....	Apparatus for evaporating saccharine juices.....	Feb. 12, 1861.
1297	Mansfield, Martin H.....	Ashland, Ohio.....	Hangers for shafting.....	May 14, 1861.
1520	Mansley, Richard.....	Philadelphia, Pa.....	Machines for opening rope.....	June 11, 1861.
1194	Maples, Darius W.....	Homert, N. Y.....	Cheese vat.....	April 30, 1861.

512	Mara, L. P., assignor to John B. Murray	New York, N. Y.	Newspaper wrappers	Feb. 19, 1861.
698	Maranville, Galusha	Hampton Corners, N. Y.	Calendar clocks	Mar. 5, 1861.
2435	Marble, F. B.	New York, N. Y.	Sewing machines	Oct. 8, 1861.
1946	Marcher, Robert J. (See Barbor, I. S., assignor.)	New York, N. Y.	Apparatus for laying metal leaf on mouldings, &c.	July 30, 1861.
2250	Marcus, Siegfried	Vienna, Austria	Relay magnets (Patented in Saxony Aug. 23, 1860.)	Sept. 10, 1861.
2089	Marcy, Perry	Tunkhannock, Pa.	Potato diggers	Aug. 20, 1861.
2393	Marden, Jeremiah A.	Newburyport, Mass.	Looms	Oct. 1, 1861.
721	Markel, John	Monticello, Ill.	Cultivators	Mar. 19, 1861.
2150	Markille, Thomas R.	Winchester, Ill.	Churns	Aug. 27, 1861.
3023	Marquardt, Conrad, assignor to Maria M. Marquardt.	Rhinebeck, N. Y.	Whiffletree attachment	Dec. 24, 1861.
2784	{ Marsden, S. L., and S. R. Burrell	Westville, Conn.	{ Candlesticks	Nov. 26, 1861.
641	Marsh, Clark, assignor to Wheeler & Wilson Manufacturing Company.	New York, N. Y.	Hemming guides for sewing machines	Mar. 5, 1861.
1298	Marsh, E. S. (See Goewey, George, assignor.)	Lewisburg, Pa.	Seed drills	May 14, 1861.
1371	Marsh, James S.	Lewisburg, Pa.	Harvesters	May 21, 1861.
546	Marsh, James S.	New York, N. Y.	Curtain fixtures	Mar. 26, 1861.
2483	Marsh, Leonard	Burlington, Vt.	Screws	Oct. 15, 1861.
2351	Marsh, S.	West Roxbury, Mass.	Locomotive engines for ascending inclined planes	Sept. 10, 1861.
2651	Marsh, S. W.	Washington, D. C.	Breech-loading fire-arm	Nov. 5, 1861.
2321	Marshall, E. A., assignor to self and Thomas Carter	New York, N. Y.	Tobacco pipes (Antedated Aug. 10, 1861.)	Sept. 3, 1861.
247	Marshall, Frank A.	Marlborough, Mass.	Lamp or candle stand	Jan. 22, 1861.
1833	Marshall, J. B.	West Chester, Pa.	Halter for horses	July 16, 1861.
1569	Marshall, Oliver W.	Windsor Locks, Conn.	Railroad switch	June 18, 1861.
1878	Marshall, Robert M.	Dayton, Ohio	Machines for rolling candy	July 23, 1861.
1425	Marshall, Wm. H., and F. A. Ross. (See Ross & Marshall.)	Fond du Lac, Wis.	Grain separators	May 28, 1861.
547	Martin, Charles B.	Muscatic, Iowa	Ditching machine	Feb. 26, 1861.
2707	Martin, E. C.	New York, N. Y.	Self-fastening pins	Nov. 12, 1861.
722	Martin, Emile	Marseilles, France	Anchors (Patented in England Aug. 27, 1859)	Mar. 19, 1861.
1026	Martin, Ferdinand	Morrisania, N. Y.	Pumps	April 9, 1861.
1102	Martin, Geo. W., assignor to self and Wm. Sheppard	Morrisania, N. Y.	Wrench	April 16, 1861.
2252	Martin, Geo. W., assignor to self and Wm. Sheppard	Ypsilanti, Mich.	Ploughs	Sept. 10, 1861.
2484	Martin, Henry D.	Providence, R. I.	Sash-holder and fastener	Oct. 15, 1861.
2199	Martin Jno. W. & Geo. G. (See Hunt, Walter, assignor.)	Salem, Mass.	Apparatus for stirring tan vats	Sept. 3, 1861.
1070	Martin, Wm. N.	Springfield, Vt.	Hooks and eyes	April 9, 1861.
1999	Martin, William P.	Newport, R. I.	Splicing rails for railroads	April 16, 1861.
572	Martino, John, and James Horton. (See Horton & Martino.)	Elbridge, N. Y.	Ox yokes	Aug. 6, 1861.
2200	Martino, John, and James Horton, assignors to Stuart & Peterson. (See Horton & Martino, &c.)	Warren, Mass.	Wrench	Feb. 26, 1861.
1134	Mason, A. C., assignor to self, H. H. Mason, and D. M. Smith.	Polo, Ill.	Corn and cane harvesters	Sept. 3, 1861.
2900	Mason, Benjamin A.	Sunbury, Pa.	Ice cream freezers	April 23, 1861.
2000	Mason, M. W.	Union City, Ind.	Apparatus for papering walls	Aug. 6, 1861.
21	Mason, Snyder & Zwicki. (See Zwicki, C., assignor.)	St. Peter's Parish, S. C.	Composition of castor-oil soaps	Jan. 1, 1861.
1443	Mason, Wm., assignor to self and Lucius N. Fay	Brooklyn, N. Y.	Apparatus for locomotion	May 28, 1861.
2742	Mason, William M.	Brooklyn, N. Y.	Projectiles for fire-arms	Nov. 19, 1861.
21	Masser, H. B.			
2000	Masslich, Bentley			
21	Mathews, Theodore Dehon			
1443	Matteson, Elisha, assignor to L. D. Towsley			
2742	Matteson, Elisha			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
573	Matthews, J., assignor to self and Henry Egolf.....	Middletown, Pa.....	Grain separators.....	Feb. 26, 1861.
2743	Mattson, Morris.....	Boston, Mass.....	Enema syringes.....	Nov. 19, 1861.
1399	Maule, Henry.....	Philadelphia, Pa.....	Time tell-tale.....	May 14, 1861.
2120	Mauran, Wm. A., assignor to Chase Bro. & Co.....	Boston, Mass.....	Camp bedstead.....	Aug. 20, 1861.
1479	Maxon, Horace.....	Hopkinton, R. I.....	Ropewalks.....	June 4, 1861.
1247	Maxwell, Robert A. (See Veerkamp & Leopold, assignors.)			
2997	May, John M.....	Janesville, Wis.....	Pumps.....	May 7, 1861.
2136	Mayall, Thomas J.....	Roxbury, Mass.....	India-rubber mats for floors, &c.....	Dec. 24, 1861.
176	Mayall, Thomas J.....	Roxbury, Mass.....	Boot and shoe tips.....	Oct. 8, 1861.
548	Mayall, Thomas J.....	Roxbury, Mass.....	Polishing tools.....	Jan. 22, 1861.
610	Mayall, Thomas J.....	Roxbury, Mass.....	Caoutchouc hose tubing.....	Feb. 26, 1861.
609	Mayall, Thomas J.....	Roxbury, Mass.....	Water-proof hose.....	Mar. 5, 1861.
2201	Mayall, Thomas J.....	Roxbury, Mass.....	Brushes.....	Mar. 5, 1861.
1372	Mayall, Thomas J.....	Roxbury, Mass.....	Flower pots.....	Sept. 3, 1861.
1733	Mayall, Thomas J., assignor to Cyrus Wakefield.....	Roxbury, Mass.....	Ordnance.....	May 21, 1861.
2744	Mayberry, J. C. and C. N.....	White Rock, Ill.....	Mode of cutting ratan into strands.....	July 2, 1861.
63	Maydole, James H., and A. W. Morse, assignors to Albert W. Morse.....	Eaton, N. Y.....	Harvesting machines.....	Nov. 19, 1861.
2001	Mayer, Ferdinand F.....	New York, N. Y.....	Grass harvesters..... (Reissue.)	April 2, 1861.
894	Maynard, Edward.....	Washington, D. C.....	Bleaching fatty substances.....	Aug. 6, 1861.
87	Maynard, Edward.....	Washington, D. C.....	Cartridge loaders.....	April 2, 1861.
63	Maynard, Edward.....	Washington, D. C.....	Metallic cartridge cases..... (Reissue.)	May 28, 1861.
2352	Maynard, J. F.....	Brooklyn, N. Y.....	Curtain loops..... (Design.)	May 28, 1861.
2306	Mayo, William S.....	Nashua, N. H.....	Flyers for spinning machines.....	Sept. 24, 1861.
319	McArthur, T. J., and J. McCrossan. (See Juengst, George, assignor.)	New York, N. Y.....	Fence posts.....	Sept. 17, 1861.
2090	McBride, A. Z.....	Hannahatchee, Ga.....		
1521	McBurney, Charles.....	Roxbury, Mass.....	Cotton press.....	Feb. 5, 1861.
1292	McCall, D., and R. Coddington. (See Coddington & McCall.)		Utilizing waste vulcanized rubber.....	Aug. 20, 1861.
723	McClure, H., and H. H. Ballard. (See Ballard & McClure.)			
1300	McClure, John F.....	Boston, Mass.....	Hair brush.....	Mar. 19, 1861.
1135	McClure, William.....	Peebles, Pa.....	Sadiron.....	May 14, 1861.
248	McCollum, James.....	Brownsville, Ala.....	Subsoil ploughs.....	April 23, 1861.
929	McComb, J. J.....	New Orleans, La.....	Iron ties for cotton bales.....	Jan. 29, 1861.
2809	McComber, J., et al. (See Brown, S. W., assignor.)			
929	McCord, Wm., assignor to self, Charles F. Cox, and Robert Woodward.....	Sing Sing, N. Y.....	Fire-arms.....	April 2, 1861.
2809	McCord, Wm., and Edmund Maher, ass'rs to Wm. McCord.....	New York, N. Y.....	Repeating ordnance, &c.....	Nov. 26, 1861.

2652	McCormick, Cyrus H. (See Erpelding, Lambert, assignor.)	Chicago, Ill.	Cutting apparatus of mowing and reaping machines	Nov. 5, 1861.
2653	McCormick, Cyrus H.	Chicago, Ill.	Metallic finger-beams of reaping and mowing machines	Nov. 5, 1861.
2654	McCormick, Cyrus H.	Chicago, Ill.	Reaping and mowing machines	Nov. 5, 1861.
177	McCormick, J. B., and W. R. Baker.	St. Louis, Mo.	Hemp brakes	Jan. 22, 1861.
1231	McCormick, J. J., assignor to self and J. L. Canfield.	Paterson, N. J.	Spring-bed bottom	April 30, 1861.
1632	McCormick, John	Madison, Ind.	Boiling apparatus	June 25, 1861.
2676	McCormick, Wm. S., assignor to Cyrus H. McCormick.	Chicago, Ill.	Cutting apparatus of reaping and mowing machines	Nov. 5, 1861.
2677	McCormick, Wm. S., assignor to Cyrus H. McCormick.	Chicago, Ill.	Cutters for reaping and mowing machines	Nov. 5, 1861.
1444	McCree, S. W., et al. (See Burr, T., assignor.)			
	McCroskey, S. P., assignor to self and Wm. D. Nichols.	Monroe, Iowa	Preparation to render maize suitable for grinding	May 23, 1861.
	McCrossan, J., and T. J. McArthur. (See Juengst, George, assignor.)			
	McCue, Jno. M., et al. (See Sibert, L., assignor.)			
2840	McDaniel, D., and E. A. Harvey	Wilmington, Del.	Removing acid from the surface of iron	Dec. 3, 1861.
178	McDonald, Hiram	Union Springs, N. Y.	Wood-bending machines	Jan. 22, 1861.
895	McDonald, J. R.	Fayette, Mo.	Hemp breaks	April 2, 1861.
2437	McDougall, S. T.	Brooklyn, N. Y.	Washing machine	Oct. 8, 1861.
	McDowell & Leibrand. (See Smith & Brown, assignors.)			
	McDowell, Thos. C., et al. (See Wells, Wm., assignor.)			
71	McDuff, Jas., assignor to N. McGraw and W. A. Taylor.	Morrisania, N. Y.	Coffins (Design)	June 25, 1861.
811	McEvoy, C. A.	Richmond, Va.	Mode of loading fire-arms	Mar. 26, 1861.
	McFarland, Jas., et al. (See Sherwin, McFarland & Thieme.)			
1570	McGraw, N., and W. A. Taylor. (See McDuff, Jas., ass'rs.)			
	McGregor, Prazee B.	Commerce, Mich.	Water elevators	June 18, 1861.
812	McGuffie, Archibald	Rochester, N. Y.	Railroad chairs	Mar. 26, 1861.
2950	McGuffie, Archibald	Rochester, N. Y.	Construction of bridges	Dec. 17, 1861.
1698	McIntire, James	New York, N. Y.	Bomb shells	July 2, 1861.
466	McIntosh, John B.	Girard, Pa.	Machine for loading hay	Feb. 19, 1861.
2329	McIntosh, William	Wilmington, Ill.	Harvesters	Oct. 22, 1861.
2358	Mellwain, George	Philadelphia, Pa.	Cases for water and gas cocks	Oct. 29, 1861.
2998	McKain, William	Conoy Township, Pa.	Mode of preventing destruction of bolting cloths in flouring and grist mills	Dec. 24, 1861.
549	McKee, Leander	Hagerstown, Md.	Mill for grinding apples	Feb. 26, 1861.
2353	McKenzie, Duncan	Brooklyn, N. Y.	Camp cooking apparatus	Sept. 24, 1861.
1522	McKenzie, H.	Talladega, Ala.	Tanning leather	June 11, 1861.
513	McMinn, Geo. W., assignor to self and R. T. Reiley	Covington, Ky.	Metallic springs	Feb. 19, 1861.
	McMullan, Richard, et al. (See Hoagland, J. W., assignor.)			
208	McMurry, John, assignor to J. A. Bostwick	Fayette county, Ky.	Fireplaces	Jan. 22, 1861.
74	McNamara, D. S., assignor to G. M. Selden.	Troy, N. Y.	Harvesters	May 7, 1861.
75	McNamara, D. S., assignor to G. M. Selden.	Troy, N. Y.	Harvesters (B, division of reissue)	May 7, 1861.
76	McNamara, D. S., assignor to G. M. Selden.	Troy, N. Y.	Harvesters (C, division of reissue)	May 7, 1861.
77	McNamara, D. S., assignor to G. M. Selden.	Troy, N. Y.	Harvesters (D, division of reissue)	May 7, 1861.
62	McNamee, James	Easton, Pa.	Bread and pastry board	Jan. 1, 1861.
2165	McNamee, James, assignor to James B. Wilson	Easton, Pa.	Sewing pins	Aug. 27, 1861.
814	McNie, Robert	New York, N. Y.	Lithographic press	Mar. 26, 1861.
	McNiece, Wm. (See Custer, J. D., assignor.)			
813	McPherson, J. L., and J. S. Harbison	Sacramento, Cal.	Windmills	Mar. 26, 1861.
2438	McQuiston, Samuel	Morris, Ill.	Corn shellers	Oct. 8, 1861.
	McViesar, W. H., et al. (See Muller, Julius J., assignor.)			
2530	McWayne, Chandler	Sacramento, Cal.	Railroads and cars	Oct. 22, 1861.
1659	Meacham, George A.	New York, N. Y.	Buttons	July 2, 1861.
2042	Meacham, George A.	New York, N. Y.	Buttons	Aug. 13, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
9253	Mead, Seth H.	St. Andrew's, N. Y.	Separating gold from earth, &c	Sept. 10, 1861.
9999	Mead, Solomon	New Haven, Conn	Hot-air furnaces	Dec. 24, 1861.
1834	Meador, George	Earlville, Ill	Wrenches	July 16, 1861.
2439	Mellen, George H.	Scott, N. Y.	Filtering stopper	Oct. 8, 1861.
2531	Melting, John	Bolton, Eng.	Machines for making bricks	Oct. 22, 1861.
1373	Menaar, Nicholas A. Mercer, Andrew & Lloyd, and Milton Day. (See Day & Mercer.)	Buffalo, N. Y.	Railroad signal lanterns	May 21, 1861.
1445	Merchant, N. R., assignor to self and A. P. Merchant	Guilford, N. Y.	Boring machine	May 28, 1861.
2166	Merrill, A. H., assignor to A. H., R. S., & J. S. Merrill	Boston, Mass.	Implements for handling lamp chimneys	Aug. 27, 1861.
1879	Merrill, A. P.	Ypsilanti, Mich.	Grain separators	July 23, 1861.
51	Merrill, Jas. H., assignor to Merrill Patent Fire-arm Manufacturing Company.	Baltimore, Md.	Fire-arms.....(A, reissue)	Mar. 26, 1861.
52	Merrill, Jas. H., assignor to Merrill Patent Fire-arm Manufacturing Company.	Baltimore, Md.	Fire-arms.....(B, division of reissue)	Mar. 26, 1861.
53	Merrill, Jas. H., assignor to Merrill Patent Fire-arm Manufacturing Company.	Baltimore, Md.	Fire-arms.....(C, division of reissue)	Mar. 26, 1861.
54	Merrill, Jas. H., assignor to Merrill Patent Fire-arm Manufacturing Company.	Baltimore, Md.	Fire-arms.....(D, division of reissue)	Mar. 26, 1861.
1029	Merrill, Jas. H., assignor to Merrill Patent Fire-arms Manufacturing Company.	Baltimore, Md.	Breech-loading fire-arms	April 9, 1861.
1028	Merrill, Jas. H., assignor to Merrill Patent Fire-arms Manufacturing Company.	Baltimore, Md.	Breech-loading fire-arms	April 9, 1861.
1446	Merrill, Jas. H., assignor to the Merrill Patent Fire-arms Manufacturing Company.	Baltimore, Md.	Fire-arms	May 28, 1861.
1447	Merrill, Jas. H., assignor to the Merrill Patent Fire-arms Manufacturing Company.	Baltimore, Md.	Fire-arms	May 28, 1861.
2532	Merrill, James H.	Baltimore, Md.	Breech-loading fire-arms	Oct. 22, 1861.
1702	Merrill, Joshua	Boston, Mass.	Construction of stills	July 2, 1861.
1701	Merrill, Joshua	Boston, Mass.	Manufacture of hydrocarbon oils	July 2, 1861.
1700	Merrill, Joshua	Boston, Mass.	Distillation of hydrocarbon oils	July 2, 1861.
1947	Merrill, Joshua	Boston, Mass.	Casing of stills	July 30, 1861.
2951	Merrill, Joshua	Boston, Mass.	Constructing stills and still-bottoms	Dec. 17, 1861.
985	Merrill, Linus	Janesville, Wis.	Grain separators	April 9, 1861.
724	Merrill, M., and T. Holmes. (See Rowe, John L.) Merritt, B., and J. H. Sears	Boston, Mass. Chelsea, Mass.	Brick elevators	Mar. 19, 1861.
109	Mersereau, Jacob, assignor to W. P., A. & J. Abendroth Messinger, V. A., and others. (See Atwood & Lee, ass'rs.)	Port Chester, N. Y.	Cook's stove (Design)	Sept. 17, 1861.
1948	Metcalf, Martin Metnam, Charles, & Co. (See Nowlan, Samuel, assignor.)	Grand Rapids, Mich.	Bee hives	July 30, 1861.
1880	Metnam, Charles	New York, N. Y.	Camp cot	July 23, 1861.
1633	Metzler, Samuel	Naperville, Ill.	Belt coupling	June 25, 1861.
725	Meyer, Christopher	New Brunswick, N. J.	Methods of applying caoutchouc to cloth	Mar. 19, 1861.
726	Meyer, Christopher	New Brunswick, N. J.	India-rubber shoes	Mar. 19, 1861.

1571	Meyer, Christopher.....	New Brunswick, N. J.....	Boots and shoes	June 18, 1861.
2533	Meyer, Jacob.....	Chicago, Ill.....	Grain separators	Oct. 22, 1861.
92	Michael, Ellis, assignor to A. & J. W. Free.....	Laporte, Ind.....	Grain separators	Jan. 8, 1861.
2202	Michael, Frederick	Des Moines, Iowa	Arrangement of apparatus for the manufacture of vinegar by the quick process	Sept. 3, 1861.
550	Mickey, John R.....	Waterford, Pa.....	Churn	Feb. 26, 1861.
2354	Middaugh, H. B., and Albert Clark	Mansfield, Pa.....	Horse-power machine.....	Sept. 24, 1861.
23	Middleton, John	New York, N. Y.....	Ice crusher	Jan. 1, 1861.
52	Miles, A. O., and R. S. Eddy. (See Eddy & Miles.)			
94	Miles, Purches, assignor to self and A. P. Plant	New Haven, Conn.....	Nut machines	Jan. 1, 1861.
53	Miles, Purches, assignor to Plant's Manufacturing Company.....	New Haven, Conn.....	Cutlery and grinding apparatus	Jan. 8, 1861.
93	Miles, Purches, assignor to Plant's Manufacturing Company.....	New Haven, Conn.....	Meat cutter	Jan. 8, 1861.
249	Millar, Alexander.....	New York, N. Y.....	Cork-cutting machines	Jan. 29, 1861.
9-6	Millar, Alexander.....	New York, N. Y.....	Cork-cutting machine	April 9, 1861.
1071	Millar, Alexander.....	New York, N. Y.....	Cork machines.....	April 16, 1861.
	Millar, Alexander, and Henry F. Cox. (See Cox & Miller, assignors, &c.)			
2589	Miller, A. H.	La Porte, Ind.....	Apparatus for evaporating sugar.....	Oct. 29, 1861.
2785	Miller, A. R.	Attica, N. Y.....	Carriage springs.....	Nov. 26, 1861.
2440	Miller, B. F.	New York, N. Y.....	Bake pan	Oct. 8, 1861.
2254	Miller, Charles P.	Philadelphia, Pa.....	Gas burners.....	Sept. 10, 1861.
1302	Miller, Daniel.....	Marietta, Ohio	Cork fastener for bottles.....	May 14, 1861.
611	Miller, F. J.	Buford, Ga.....	Machinery for making rope.....	Mar. 5, 1861.
	Miller, H. H., and Jedediah Wilcox. (See Mann, Bela A., assignor.)			
1773	Miller, John, jr.....	Baltimore, Md.....	Machines for making paper bags and boxes.....	July 9, 1861.
2255	Miller, John, and William Ketting	Jersey City, N. J.....	Railroad car ventilator	Sept. 10, 1861.
2841	Miller, Lewis.....	Canton, Ohio.....	Harvesting machines.....	Dec. 3, 1861.
281	Miller, Lewis.....	Canton, Ohio.....	Making finger guards for harvesters	Jan. 29, 1861.
2891	Miller, Lewis.....	Canton, Ohio.....	Grain and grass harvesters.....	Dec. 10, 1861.
2952	Miller, Lewis and Jacob	Canton, Ohio.....	Grain cleaners	Dec. 17, 1861.
760	Miller, Lewis, assignor to C. Aultman & Co.....		Gearing for threshing machines.....	Mar. 19, 1861.
2394	Miller, L. H.	Baltimore, Md.....	Camp trunks	Oct. 1, 1861.
1338	Miller, Lewis L.....	Jersey Shore, Pa.....	Washing machine.....	May 14, 1861.
1573	Miller, Nathan.....	Finley, Ohio.....	Pumps	June 18, 1861.
1572	Miller, Nathan.....	Finley, Ohio.....	Water elevators for cattle	June 18, 1861.
896	Miller, Orlando	Girard, Pa.....	Bee hives.....	April 2, 1861.
727	Miller, Samuel.....	Winchester, Ohio.....	Harrows.....	Mar. 19, 1861.
2151	Miller, Tobias H.....	Lancaster, Pa.....	Machine for rolling carriage axles	Aug. 27, 1861.
1774	Miller, William.....	Boston, Mass.....	Fire-escape	July 9, 1861.
2503	Miller, William, assignor to self and Samuel P. Williams, jr.....	New York, N. Y.....	Cases for photographic cards.....	Oct. 15, 1861.
2678	Miller, William, assignor to self and J. B. Bridgman.....	Boston, Mass.....	Guard attachment for door latches	Nov. 5, 1861.
1301	Miller, William Hartley.....	Philadelphia, Pa.....	Water alarm for steam boilers	May 14, 1861.
1703	Miller, William K.....	Canton, Ohio.....	Harvesters.....	July 2, 1861.
1072	Miltholland, James.....	Reading, Pa.....	Furnaces of steam boilers	April 16, 1861.
2953	Miltholland, James.....	Reading, Pa.....	Mode of operating Giffard's injector.....	Dec. 17, 1861.
574	Millicken, W. H. & John, assignors to themselves and D. F. Buckley.....	Manchester, N. H.....	Machines for folding paper.....	Feb. 26, 1861.
	Millicken, W. T. B., et al. (See Johnson, Frank G., assignor.)			
761	Millockan, Adolphe M., assignor to Henry Leverat.....	New York, N. Y.....	Method of extracting oil from fish.....	Mar. 19, 1861.
1136	Mills, T. S.	Iberia, Ohio	Seeding machines.....	April 23, 1861.
2590	Mills, William	New Athens, Ohio.....	Apparatus for cleaning feathers	Oct. 29, 1861.
1835	Mills, William T.....	Kalamazoo, Mich.....	Sewing machines	July 16, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2203	Minor, George, and Burroughs Beach.	Bridgewater, Conn.	Washing machines.	Sept. 3, 1861.
1426	Minthorn, Daniel	West Meriden, Conn.		
2335	Mishler, L.	Beverly, Mass.	Valves	May 28, 1861.
2892	Miskimen, Hezekiah W.	Mogadore, Ohio.	Machines for loading hay.	Sept. 24, 1861.
669	Mitchell, George A.	Kingston Mines, Ill.	Automatic gate	Dec. 10, 1861.
1634	Mitchell, George A.	Turner, Maine.	Tip for boots and shoes	Mar. 12, 1861.
1635	Mitchell, Porter.	Turner, Maine.	Boot heels.	June 25, 1861.
467	Mitchell, Thomas	Greenfield, Mass.	Heating apparatus	June 25, 1861.
129	Mitchell, Vance & Co. (See Vance, Samuel B. H., assignor.) Mix, E. M. & J. E., assignors to Wait T. Huntington and Hervey Platts.	Lansingburg, N. Y.	Machine for boring brush blocks.	Feb. 19, 1861.
2916	Mix, E. M. & J. E., assignors to selves and John Gauntlett.	Ithaca, N. Y.	Calendar clocks.	Oct. 29, 1861.
531	Mix, G. J.	Ithaca, N. Y.	Padlocks.	Dec. 10, 1861.
2954	Moen, P. L., et al. (See Washburn, I., assignor.) Moen & Washburn. (See Frost, W. E., assignor.)	Wallingford, Conn.	Manufacture of spoons	Feb. 26, 1861.
17	Moffitt, G. W.	Washington, Pa.	Car coupling.	Dec. 17, 1861.
2257	Moffitt, J. W.	Harrisburg, Pa.	Manufacture of porcelain teeth.	Jan. 8, 1861.
2256	Moller, William	New York, N. Y.	Apparatus for dissolving crude sugar.	Sept. 10, 1861.
289-	Moller, William	New York, N. Y.	Sugar cutting machine	Sept. 10, 1861.
468	Montague, Charles	Hartford, Conn.	Printing press	Dec. 10, 1861.
2356	Monson, C., and S. Moore	New Haven, Conn.	Gas burners	Feb. 19, 1861.
2842	Montgomery, J. A.	Williamsport, Pa.	Canteen	Sept. 24, 1861.
1775	Moors, Henry	Toledo, Ohio	Mode of heating moulds.	Dec. 3, 1861.
2091	Moon, J. W. D. F.	Coventry, N. Y.	Thulls to vehicles	July 9, 1861.
2894	Mooney, David & E. A., and Samuel Moore. (See Moore & Mooney.)	Detroit, Mich.	Hydrants	Aug. 20, 1861.
469	Moore, Benjamin B.	Syracuse, N. Y.	Lamps	Dec. 10, 1861.
2843	Moore, David A.	Brooklyn, N. Y.	Fire-arms	Feb. 19, 1861.
2844	Moore, Daniel	Brooklyn, Ohio.	Breech-loading fire-arms	Dec. 3, 1861.
24	Moore, E. A., and Samuel & David Mooney	Finley, Ohio	Cattle pumps	Dec. 3, 1861.
2679	Moore, Gilbert H.	Rochester, N. Y.	Ploughs	Jan. 1, 1861.
815	Moore, George R., assignor to Alfred B. Ely.	Westford, Mass.	Steering apparatus.	Nov. 5, 1861.
93	Moore, Hiram	Fond du Lac, Wis.	Seed drills.	Mar. 26, 1861.
2204	Moore, John M. (See Wilson, J. B., assignor.)	Ypsilanti, Mich.	Seeding machines.	June 18, 1861.
250	Moore, Lewis	Bellefontaine, Ohio	Cultivators	Sept. 3, 1861.
2745	Moore, S., and C. Monson. (See Monson & Moore.)	Jackson, Tenn.	Composition for lubricating journals, axles, &c.	Jan. 29, 1861.
2746	Moorhead, J. B. & J. A., and G. G. Pool	Buffalo, N. Y.	Lamps	Nov. 19, 1861.
	Morehouse, Charles L.	Buffalo, N. Y.	Sash supporter.	Nov. 19, 1861.
	Morehouse, M. S., and N. D. Hartley. (See Hartley & Morehouse.)			
	Morehouse, William			
	Morehouse, William			
	Morgan, D. S., et al. (See Palmer & Williams, assignors.)			

179	Morgan, Dayton S.	Brockport, N. Y.	Harvesters	Jan. 22, 1861.
	Morgan, D. S., <i>et al.</i> (See Seymour, Wm. H., assignor.)			
2441	Morgan, Merritt P.	Scott, N. Y.	Straw carriers of threshing machines	Oct. 8, 1861.
1704	Morgan, Orson	Henry, Ill.	Horse collar block	July 2, 1861.
1776	Morley, F. A.	Sodus Point, N. Y.	Steering apparatus	July 9, 1861.
1777	Morley, F. A.	Sodus Point, N. Y.	Potato diggers	July 9, 1861.
120	Morohan, Bernard	Brooklyn, N. Y.	Stopping and starting railroad cars	Jan. 15, 1861.
2895	Morrill, Charles	New York, N. Y.	Bit braces	Dec. 10, 1861.
	Morrill, N. F., and W. Wadleigh. (See Wadleigh & Morrill.)			
180	Morris, David A.	Pittsburg, Pa.	Manufacture of sheet iron	Jan. 22, 1861.
2205	Morris, John H.	Niles, Mich.	Machine for holding bag while being filled.	Sept. 3, 1861.
	Morris, J. J., and D. D. Hardy. (See Hardy & Morris.)			
392	Morris, William S.	New York, N. Y.	Fish hooks	Feb. 12, 1861.
64	Morrisett, James J., assignor to Jacob L. Dodge	New York, N. Y.	Hats (Design)	May 28, 1861.
121	Morrisett, James J., assignor to Jacob L. Dodge	New York, N. Y.	Hats (Design)	Oct. 29, 1861.
2015	Morrison, E. R., assignor to the "Hanlon Brothers."	South Bergen, N. J.	Locomotive apparatus	Aug. 6, 1861.
2395	Morrison, Henry.	Paterson, N. J.	Rest for engine lathes	Oct. 1, 1861.
2456	Morrison, John R.	East Springfield, Ohio.	Washing machine	Oct. 15, 1861.
2455	Morrison, John R.	East Springfield, Ohio.	Apparatus for cleaning and renovating feathers	Oct. 15, 1861.
2591	Morrison, Robert	Newcastle, England	Steam hammers	Oct. 29, 1861.
1575	Morrison, Samuel G.	Williamsport, Pa.	Ventilating millstones	June 18, 1861.
1574	Morrison, Samuel G.	Williamsport, Pa.	Mode of cleaning and feeding grain to burr millstones	June 18, 1861.
2592	Morrison, S. G.	Williamsport, Pa.	Window sash supporter	Oct. 29, 1861.
3000	Morrison, S. G.	Williamsport, Pa.	Canteen	Dec. 24, 1861.
1073	Morrison, William	Chadd's Ford, Pa.	Cultivator teeth	April 16, 1861.
1291	Morse, Andrew, assignor to self and Ira Winn.	Portland, Maine	Extension platforms	May 7, 1861.
2152	Morse, Andrew	Portland, Maine	Machinery for ringing fog bells	Aug. 27, 1861.
	Morse, Albert W. (See Maydole & Morse, assignors.)			
1636	Morse, Henry U. & H. A.	Canton, Mass.	Tobacco cutters	June 25, 1861.
1576	Mosher, Eli	Flint, Mich.	Water elevators	June 18, 1861.
1137	Mosher, H. W.	Warren, Ill.	Coffee pots	April 23, 1861.
	Moss, C. B., <i>et al.</i> (See Sheehan, Thomas, assignor.)			
1881	Mott, Samuel M.	Wellsville, N. Y.	Manufacture of lubricating oils	July 23, 1861.
642	Moulson, John, assignor to A. B. Elliott.	Philadelphia, Pa.	Sewing machines	Mar. 5, 1861.
2593	Moulton, Stephen	Bradford, England	Manufacture of springs from rubber and steel. (Patented in England Jan. 17, 1861.)	Oct. 29, 1861.
1248	Mowry, A. L.	Cincinnati, Ohio.	Annealing car wheels	May 7, 1861.
1303	Mowry, Samuel	Womelsdorf, Pa.	Horse rakes	May 14, 1861.
2258	Mudge, S. W.	Rome, N. Y.	Churn	Sept. 10, 1861.
2655	Mudge, S. W.	Rome, N. Y.	Churn	Nov. 5, 1861.
1836	Muller, Adrien	Paris, France.	Furnace for treating zinc and other ores	July 16, 1861.
514	Muller, H., and C. Majer, assignors to themselves and Louis Beuche.	New York, N. Y.	Cigar machines	Feb. 19, 1861.
2786	Muller, John M.	Richmondville, N. Y.	Process of tanning	Nov. 26, 1861.
2167	Muller, Julius J., assignor to self, W. H. McViekar, H. E. Roeder, and P. Weiler.	New York, N. Y.	Ore separator	Aug. 27, 1861.
2787	Mulvany, John	New York, N. Y.	Lamps	Nov. 36, 1861.
2295	Mulvey, Jos., and C. Ohlemacher.	Aurora, Ill.	Railroad car brakes	Sept. 3, 1861.
3001	Mumma, David	Mount Carroll, Ill.	Treating skins without removing the hair or fur.	Dec. 24, 1861.
1427	Mumford, Josiah, and J. W. Wilson	Clarksburgh, Ohio	Cultivators	May 28, 1861.
2680	Munger, George, assignor to self, L. Candee, and J. E. P. Dean.	New Haven, Conn.	Chalk erasers	Nov. 5, 1861.
62	Munger, L. F.	Rochester, N. Y.	Locks (Reissue.)	April 2, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
251	Munson, Edmund.....	Utica, N. Y.....	Machines for facing and polishing millstones	Jan. 29, 1861.
181	Munson, George C.....	New York, N. Y.....	Tucking gauges.....	Jan. 22, 1861.
816	Murdock, John.....	New York, N. Y.....	Bank notes	Mar. 26, 1861.
	Murdock, J. H. (See Howe, Franklin L., assignor.)			
320	Murkland, William.....	Lowell, Mass.....	Looms	Feb. 5, 1861.
182	Murphy, J. Y. D.....	Half Moon, Pa.....	Corn planters.....	Jan. 22, 1861.
1195	Murphy, John W.....	Philadelphia, Pa.....	Mode of adjustment of truss-frames of bridges.....	April 30, 1861.
1333	Murray, Geo., assignor to self and Sarah G. Hibbert.....	Cleveland, Ohio.....	Water elevators	May 14, 1861.
	Murray, John B. (See Mara, L. P., assignor.)			
470	Murray, Peter.....	Detroit, Mich.....	Steam-engines.....	Feb. 19, 1861.
	Murray, Wm. S. (See Jenks, L. M., assignor.)			
1196	Musselman, Darius.....	Lucas county, Iowa.....	Steam and hot air engine.....	April 30, 1861.
252	Myer, A. J.....	Buffalo, N. Y.....	System of signaling.....	Jan. 29, 1861.
123	Myer, Henry B.....	Cleveland, Ohio.....	Converting railroad car-seats into beds or lounges.. (Reissue)	Oct. 8, 1861.
2534	Myers, John, and George Elbreg.....	Cincinnati, Ohio.....	Street sewers.....	Oct. 22, 1861.
1164	Myers, Charles K., assignor to self and John Cohenour.....	Pekin, Ill.....	Corn planters.....	April 23, 1861.
1637	Myers, H. A. & L. B.....	Elmore, Ohio.....	Grain drills.....	June 25, 1861.
987	Napier, Henry.....	Brooklyn, N. Y.....	Apparatus for manufacturing turpentine and rosin.....	April 9, 1861.
	Nash, J. L. (See Ballou, Francis D., assignor.)			
424	Nash, Jefferson, assignor to self and Alonzo K. Cutts.....	Janesville, Wis.....	Grain separators.....	Feb. 12, 1861.
110	Nash, Jefferson, assignor to self and Alonzo K. Cutts.....	Janesville, Wis.....	Grain separator..... (Reissue.)	July 23, 1861.
	Nash, Thomas, et al. (See Haasz, D. F., assignor.)			
3002	Naylor, Peter.....	New York, N. Y.....	Castings balls for rifles.....	Dec. 24, 1861.
	Needham, Bibb & Dorsey. (See Bibb, Needham & Dorsey.)			
	Neefus, Peter W., and Henry R. Conklin. (See Short, Joseph, assignor.)			
2535	Neff, William.....	Centre Hall, Pa.....	Harvesting machines.....	Oct. 22, 1861.
	Negbauer, Julius, et al. (See Hainemann, Sampson, assignor. Design.)			
183	Neill, Arthur.....	Boston, Mass.....	Moulds for shaping India-rubber pencil heads.....	Jan. 22, 1861.
	Nelson & Bayley. (See Bayley & Nelson.)			
	Nelson, C. A., et al. (See Smoote, Wm. H., assignor.)			
82	Nelson, Henry G.....	Mexico, N. Y.....	Water-wheels..... (Reissue)...	May 21, 1861.
1374	Nelson, Mortimer.....	New York, N. Y.....	Balloons.....	May 21, 1861.
1577	Nelson, Mortimer.....	New York, N. Y.....	Mode of selecting balls for games of chance.....	June 18, 1861.
50	Newmann, Caesar, assignor to Prince, assignor to Newmann.....	New York, N. Y.....	Machine for making hooped skirts..... (Reissue)...	Feb. 26, 1861.
1197	Newmann, John.....	New York, N. Y.....	Faucets.....	April 30, 1861.
1334	Newman, Joseph, assignor to Geo. W. Robertson.....	Philadelphia, Pa.....	Hydrants.....	May 14, 1861.
1074	Nevill, George W.....	Bath, Ill.....	Seed drills.....	April 16, 1861.
930	Nevison, James, assignor to self and A. D. Wood.....	Morgan, Ohio.....	Stave machines.....	April 2, 1861.
25	Newbury, Wm.....	Clarksville, Mo.....	Straw-cutters.....	Jan. 1, 1861.
2357	Newell, John W.....	New Brunswick, N. J.....	Manufacture of elastic cloth.....	Sept. 24, 1861.
253	Newell, Nathan F.....	Northbridge, Mass.....	Centring bars of iron.....	Jan. 29, 1861.
	New England Butt Company. (See Winchester, G. K., assignor.)			

1075	Newkumet, Adam.....	Philadelphia, Pa	Drain tiles	April 16, 1861.
2043	Newman, Carlton	Pittsburg, Pa	Lamps	Aug. 13, 1861.
115	Ney, Elemir J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Oct. 22, 1861.
2	Ney, Elemir J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet	Feb. 5, 1861.
3	Ney, Elemir J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet	Feb. 5, 1861.
116	Ney, Elemir J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Oct. 22, 1861.
117	Ney, Elemir J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Oct. 22, 1861.
28	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet	Mar. 19, 1861.
29	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet	Mar. 19, 1861.
30	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet	Mar. 19, 1861.
78	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
80	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
81	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
82	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
83	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
84	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
85	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
86	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
87	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	July 16, 1861.
94	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
95	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
96	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
97	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
98	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
99	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
100	Ney, E. J., assignor to Lowell Manufacturing Co	Lowell, Mass.	Carpet pattern	Aug. 13, 1861.
1705	Nichols, Francis	New London, Conn	Soda water apparatus	July 2, 1861.
1375	Nichols, William D.	Davenport, Iowa	Device for milking cows	May 21, 1861.
1523	Nichols, W. H., and F. D. Strong	East Hampton, Conn	Nail and screw heads	June 11, 1861.
1882	Nicholson, William T.	Providence, R. I.	Egg beater	July 23, 1861.
2153	Nickerson, D. P.	Cleveland, Ohio	Cheese press and hook	Aug. 27, 1861.
44	Nishwitz, Frederick	Brooklyn, N. Y.	Harvesters	Mar. 5, 1861.
26	Nittinger, August, jr.	Philadelphia, Pa	Sausage stuffer	Jan. 1, 1861.
321	Nivelle, Francis	Paris, France	Sewing machines	Feb. 5, 1861.
988	Noble & Abbott. (See Gibbs, Samuel W., assignor.)	Philadelphia, Pa	Hair-cloth looms	April 9, 1861.
2207	Noblit, John	Philadelphia, Pa	Metal fences	Sept. 3, 1861.
1198	Noone, J., and Win. Earl, jr. (See Davis, Jos., assignor.)	New York, N. Y.	Filters	April 30, 1861.
728	Norris, George	New Milford, Conn.	Machines for felting hat bodies.	Mar. 19, 1861.
1778	North, Chase & North. (See Smith & Brown, assignors.)	Manchester, N. H.	Sewing machines	July 9, 1861.
1599	Northrup, Roswell	New York, N. Y.	Galvanic soles	June 18, 1861.
1918	Northrup, Chauncy B., and William E. Vincent. (See Vincent & Northrup.)	New York, N. Y.	Washing machines	July 30, 1861.
729	Norton, Benjamin F.	Abington, Mass.	Last for boots and shoes	Mar. 19, 1861.
1304	Norton & Phillips. (See Turner, Wm., assignor.)	Chicopee, Mass	Picker-motion	May 14, 1861.
	Norton Furnace Company. (See Magee, John, assignor.)			
	Novelty Rubber Company. (See Hingher, Constantine, ass'r.)			
	Nowlan, Samuel, assignor to Charles Mettam & Co.			
	Nowlan, Samuel			
	Noyes, Josiah H.			
	Nugent, William			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
730	Nyce, Benjamin M	Kingston, Ind	Buildings for preserving fruits	Mar. 19, 1861.
847	Nye, John Wight, assignor to self and George W. Ball	Fairfield, Vt	Dumping wagons	Mar. 26, 1861.
121	Nystrom, John W	St. Petersburg, Russia	Apparatus for docking ships, &c.	Jan. 15, 1861.
2442	Nystrom, John W	Philadelphia, Pa	Furnaces for the manufacture of iron	Oct. 8, 1861.
2845	Oakley, George W	Reading, Pa	Heaters	Dec. 3, 1861.
2307	Oakley, John M.	New York, N. Y.	Washing machines	Sept. 17, 1861.
	O'Bryan, John. (See Heyle, John Adam, assignor.)			
2092	O'Bryan, Charles, and Henry Kreps	Minerva, Ohio	Ploughs	Aug. 20, 1861.
2443	Odell, A., and W. A. Burrows	New York, N. Y.	Lamps	Oct. 8, 1861.
3035	O'Doris, St. John	Philadelphia, Pa	Fertilizers	Dec. 24, 1861.
1428	Ogle, J. W.	Concord, Ill	Window shade	May 28, 1861.
	Ohlemacher, C., and Joseph Mulvey. (See Mulvey & Ohlemacher.)			
	Old Colony Iron Company. (See Robinson, Enoch, ass'r.)			
122	Oldfield, Edward G.	Bordentown, N. J.	Machines for making brick, tile, &c.	Jan. 15, 1861.
2093	Olds, A. M.	Glenmont, Wis.	Bag holder	Aug. 20, 1861.
2208	Olds, Alonzo W.	Green Oak, Mich	Rotary harrows	Sept. 3, 1861.
3003	Olds, Alonzo W.			
	Olds, E. F. and A. W., and J. Brainerd. (See Brainerd & Olds.)			
552	Oliver, F. E.	New York, N. Y.	Combined paper cutter and rule	Feb. 26, 1861.
2747	Olmsted, L. H.	Binghamton, N. Y.	Oilers	Nov. 19, 1861.
848	Olmsted, S. J., assignor to John Ellis.	Binghamton, N. Y.	Gate hinge	Mar. 26, 1861.
2788	Orendorf, O. H. P.	Bloomington, Ill	Portable field fences	Nov. 26, 1861.
1910	Ormsby, H., and E. R. Sumner, assignors to selvus and Jas. A. Carpenter.	Beloit, Wis.	Cobb and feed mills	July 23, 1861.
2154	Orput, J. M.	Malta, Ill	Harvesting machines	Aug. 27, 1861.
989	Orr, Samuel	East Springfield, Ohio	Apparatus for dressing feathers	April 9, 1861.
817	Osborn, Asahel.	Morris, N. Y.	Quilting frame	Mar. 26, 1861.
	Osborn & Vincent. (See Mann, Robert J., assignor.)			
	Osborne, David M. (See Jewell, Ira, assignor.)			
	Osborne, David M., et al. (See Kirby, Wm. A., assignor.)			
	Osborne, David M., et al. (See Kirby, Wm. A., assignor.)			
	Osborne, David M., et al. (See Kirby, Wm. A., assignor.)			
1664	Osborne, J. W., assignor to Samuel Thompson Hooper	Melbourne, Australia	Photolithography	June 25, 1861.
2168	Osborne, John W., assignor to Samuel T. Hooper	Melbourne, Australia	Photolithographic transfers	Aug. 27, 1861.
123	Osgood, J. H., jr., and F. B. Shaw	Boston, Mass.	Railroad car coupling	Jan. 15, 1861.
	Osgood, Judson R. et al. (See Coppage, Fran. C., assignor.)			
147	Osgood, Robert T., assignor to Cyrenus Wheeler, jr	Poplar Ridge, N. Y.	Grain and grass harvesters	Dec. 24, 1861.
148	Osgood, Robert T., assignor to Cyrenus Wheeler, jr	Poplar Ridge, N. Y.	Grain and grass harvesters	Dec. 24, 1861.
149	Osgood, Robert T., assignor to Cyrenus Wheeler, jr	Poplar Ridge, N. Y.	Grain and grass harvesters	Dec. 24, 1861.
124	Otis, E. G.	Yonkers, N. Y.	Holting apparatus	Jan. 15, 1861.
2396	Overton, Alfred N.	Knoxville, Iowa	Composition to be applied to grain to prevent smut	Oct. 1, 1861.
1305	Oviatt, S. E.	Richfield, Ohio	Threshing machines	May 14, 1861.
114	Oviatt, S. E.	Richfield, Ohio	Threshing machines	Aug. 13, 1861.
393	Owcn, Alfred	Buffalo, N. Y.	Nail machine	Feb. 12, 1861.

(Reissue.)

2810	Owens, James E., et al. (See Johnson, Leonard J., assignor.)	Carlinville, Ill.	Post-hole excavators	Nov. 26, 1861.
1706	Owen, I. D., assignor to self, E. L. Owen, and G. W. Barnett.	Pontiac, Mich.	Felling guides for sewing machines	July 2, 1861.
9546	Paddock, H. L.	Watertown, N. Y.	Ice-cream freezers	Dec. 3, 1861.
897	Page, Charles G., assignor to George C. Roberts	Washington, D. C.	Refrigerator	April 2, 1861.
2656	Page, William	New York, N. Y.	Rifled projectile for ordnance, &c.	Nov. 5, 1861.
392	Page, W. M., and Brown & Taft. (See Taft, F. F., assignor.)	Lowell, Mass.	Stop motion for railway drawing head	Feb. 12, 1861.
	Paige, Benjamin O.			
	Palmer, Aaron, et al. (See Seymour, Wm. H., assignor.)			
4	Palmer, Alonzo, and E. Davis. (See Davis & Palmer)			
	Palmer, A., and S. G. Williams, assignors, by mesne assignments, to D. S. Morgan, W. H. Seymour, S. G. Williams, and Aaron Palmer.	Brockport, N. Y.	Harvesters.....(Reissue.)	Jan. 1, 1861.
5	Palmer, A., and S. G. Williams, assignors, by mesne assignments, to D. S. Morgan, W. H. Seymour, S. G. Williams, and Aaron Palmer.	Brockport, N. Y.	Harvesters.....(Division of reissue.)	Jan. 1, 1861.
42	Palmer, Caleb W.	Troy, N. Y.	Oven of cooking stoves.....(Design.)	May 7, 1861.
120	Palmer, Caleb W.	Troy, N. Y.	Cooks' stoves	Oct. 29, 1861.
731	Palmer, John S.	Providence, R. I.	Constructing bracelets, &c	Mar. 19, 1861.
1638	Palmer, Mark S.	New Bedford, Mass.	Machine for filling and folding medical powder papers	June 25, 1861.
1883	Palmer, William	New York, N. Y.	Breech-loading fire-arms	July 23, 1861.
82	Pardee, David	Carlyle, Ill.	Seeding machines	Jan. 8, 1861.
2594	Pardee, Peter	Washington, D. C.	Ship building	Oct. 29, 1861.
1429	Park, S. A. and J. A. Staats.	Somerville, N. J.	Machine for cooling and drying flour	May 28, 1861.
2595	Parker, Edmund	Meriden, Conn.	Coffee mills	Oct. 29, 1861.
	Parker, J. and E. (See Range, John, assignor.)			
1524	Parker, J. S.	West Willington, Conn.	Machines for turning spools	June 11, 1861.
1779	Parker, Lucius	Manchester Station, Conn.	Railroad car brake	July 9, 1861.
471	Parker, Leonard M.	Shirley Village, Mass.	Fruit gatherer	Feb. 19, 1861.
2209	Parker, Robert	North Cohocton, N. Y.	Churn	Sept. 3, 1861.
	Parker & Perkins. (See Ames, Nathan, assignor)			
643	Parkhurst, Orson, assignor to H. D. Fuller and R. Safely	Cohoes, N. Y.	Knitting machines	Mar. 5, 1861.
2657	Parkhurst, Parmenus P.	Milford, Mass.	Washing machine	Nov. 5, 1861.
32	Parkhurst, Stephen R.	West Bloomfield, N. J.	Machines for ginning cotton and burring wool. (Reissue.)	Feb. 12, 1861.
1376	Parkhurst, Stephen R.	New York, N. Y.	Carding machine	May 21, 1861.
898	Parks, Alfred E.	Brooklyn, N. Y.	Electro-magnetic telegraphing	April 2, 1861.
1824	Parks, Edwin	Winchendon, Mass.	Faucets	July 23, 1861.
2094	Parks, Nathaniel	Rome, N. Y.	Telegraphing	Aug. 20, 1861.
	Parks, S., and S. Sweeney. (See Sweeney & Parks.)			
869	Parlett, John A., and Jeremiah Thompson	Elmira, N. Y.	Ploughs	April 2, 1861.
3304	Parmele, Simon J.	Killingworth, Conn.	Corn-shellers	Dec. 24, 1861.
1639	Parr, George	Buffalo, N. Y.	Camp chest	June 25, 1861.
1707	Parrih, Milo M.	Pleasantville, N. Y.	Machines for cutting stone	July 2, 1861.
2096	Parrott, Robert P.	Cold Spring, N. Y.	Projectiles for rifled ordnance	Aug. 20, 1861.
2095	Parrott, Robert P.	Cold Spring, N. Y.	Projectiles for rifled ordnance	Aug. 20, 1861.
2397	Parrott, Robert P.	Cold Spring, N. Y.	Manufacture of ordnance	Oct. 1, 1861.
2558	Parrott, Robert P.	Cold Spring, N. Y.	Applying fuses to shells	Nov. 5, 1861.
2586	Pascal, C. L.	Philadelphia, Pa.	Military hats	Dec. 10, 1861.
1919	Partridge, John A.	New York, N. Y.	Spinning machinery	July 30, 1861.
	Parvin, J. B., and Jacob Early. (See Early & Parvin.)			
1138	Paterson, John	Indianapolis, Ind.	Cheese presses	April 23, 1861.
2097	Faton, Robert	New York, N. Y.	School seat	Aug. 20, 1861.
612	Patrullo, E. J. Y.	Merida, Yucatan, Mexico	Machines for dressing the leaves of the agave plant	Mar. 5, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1139	Patrullo, E. J. Y.	Merida, Yucatan, Mexico	Machines for dressing the leaves of <i>Agave Americana</i>	April 23, 1861.
818	Patterson, James H.	Schaghticoke, N. Y.	Drying pasteboard	Mar. 26, 1861.
2444	Patterson, Stephen J.	Bridgeport, Conn.	Apparatus for tanning	Oct. 8, 1861.
1307	Patterson, Thomas	Rush, Ill.	Ploughs	May 14, 1861.
1708	Patton, William	Towanda, Pa.	Shutter and door fastener	July 3, 1861.
2098	Patton, William P.	Harrisburg, Pa.	Lamps	Aug. 20, 1861.
2155	Paul, Almarin B.	Nevada, Cal.	Amalgamator	Aug. 27, 1861.
3005	Payne, Frederick C.	New York, N. Y.	Folding bedstead	Dec. 24, 1861.
	Payne, Morgan, and Wm. F. Armstrong. (See Armstrong & Payne.)			
2789	Paxson, Charles E.	Salem, Ohio	Corn ploughs	Nov. 26, 1861.
	Peabody, Alfred. (See Hawkins, L. D., assignor.)			
613	Peabody, Francis	Salem, Mass.	Looms	Mar. 5, 1861.
	Peabody, H. O., and J. W. Pearson. (See Pearson & Peabody.)			
	Pearson, John. (See Gibbs, John B., assignor.)			
2044	Pearson, John, Jr.	Newburyport, Mass.	Stoves	Aug. 13, 1861.
53	Pearson, J. W., and H. O. Peabody, assignors to themselves and D. E. Hayward.	Winchester, Mass.	Skating boot	Jan. 1, 1861.
2156	Pearson, Joseph W.	Winchester, Mass.	Pen-holder	Aug. 27, 1861.
2790	Pease, Buel D.	Madison, Pa.	Butter-worker	Nov. 26, 1861.
688	Pease, Edwin R., assignor to Richard P. Pease.	Poughkeepsie, N. Y.	Mowing machines	Mar. 12, 1861.
83	Pease, James C.	Sycamore, Ohio	Field-rollers	Jan. 8, 1861.
1249	Peaslee, John S.	Providence, R. I.	Washing machines	May 7, 1861.
931	Peck, Horton B., assignor to Lyman T. Snedaker.	Wolcott, N. Y.	Method of arranging fly-wheels	April 2, 1861.
1640	Peck, R. H., and E. M. Gifford	Wolcott, Vt.	Tub and pail machine	June 25, 1861.
2811	Peck, Royal H., assignor to self and E. M. Gifford.	Wolcott, Vt.	Churn	Nov. 26, 1861.
	Peck, Thomas B., and John B. (See Woodruff, Jacob D., assignor.)			
	Peckover, Jos., and Federal C. Adams. (See Adams & Peckover)			
2157	Poirce, Charles M., jr.	New Bedford, Mass.	Moulds for earthen or cement pipes	Aug. 27, 1861.
2358	Pell, Ogden P., assignor to self and Alfred M. Tredwell.	Flushing, N. Y.	Lounge and camp stool combined	Sept. 24, 1861.
84	Penn, Worden P.	Belleville, Ill.	Seeding machines	Jan. 8, 1861.
125	Penn, Worden P.	Belleville, Ill.	Seeding ploughs	Jan. 15, 1861.
1578	Penn, Worden P.	Belleville, Ill.	Threshing machines	June 18, 1861.
2259	Penn, Worden P.	Belleville, Ill.	Harve-ters	Sept. 10, 1861.
1920	Penn, W. P.	Belleville, Ill.	Seeding ploughs	July 30, 1861.
990	Pennie, Henry	Brooklyn, N. Y.	Roller skates	April 9, 1861.
92	Perego, Ira, jr.	New York, N. Y.	Shirt bosoms	June 11, 1861.
900	Perkins, Albert M.	Springfield, Mass.	Pumps	April 2, 1861.
991	Perkins, Charles H.	Providence, R. I.	Toe calkins for horseshoes	April 9, 1861.
1641	Perkins, Charles H.	Providence, R. I.	Machine for making horseshoes	June 25, 1861.
614	Perkins, John M.	Cleveland, Ohio	Water elevators	Mar. 5, 1861.
670	Perkins, P. C.	Waterford, N. Y.	Punching and shearing machine	Mar. 12, 1861.
	Perkins, Parker. (See Ames, Nathan, assignor.)			

615	Perley, Charles	New York, N. Y.	Ships' capstans	Mar. 5, 1861.
83	Perley, Charles	New York, N. Y.	Direct and counter motion winch. (Reissue.)	May 21, 1861.
	Perrigo, William, and O. E. Holmes. (See Holmes, Ezra Sprague, assignor.)			
2121	Perry, Edwin H., assignor to Sackett, Davis & Co.	Providence, R. I.	Machine for making split rings	Aug. 20, 1861.
1525	Perry, F. A.	St. Louis, Mo.	Ornamented fabric or manufacture for window shades	June 11, 1861.
2002	Perry, William H.	St. Louis, Mo.	Manufacture of iron	Aug. 6, 1861.
992	Peteler, Alois	New Britain, N. Y.	Apparatus for disinfecting foul air in vessels	April 9, 1861.
	Peterson & Stuart. (See Horton & Martino, assignors.)			
	Peterson & Stuart. (See Horton & Martino, assignors.)			
	Peterson & Stuart. (See Horton & Martino, assignors.)			
1837	Pettengill, John, jr.	Jackson, N. H.	Car brakes	July 16, 1861.
2536	Pettes, Moses M.	West Concord, Vt.	Boots and shoes	Oct. 22, 1861.
322	Peyton, John B.	Raymond, Miss.	Flues for cotton gins	Feb. 5, 1861.
2596	Pfeiffer, Jacob	Niagara, N. Y.	Railroad signal lights	Oct. 29, 1861.
2537	Pfund, Anthony	New York, N. Y.	Shells for ordnance	Oct. 22, 1861.
	Phelan & Collender. (See Froelich, Ch., assignor.)			
1448	Phelps, Geo. M., assignor to American Telegraph Company.	Williamsburg, N. Y.	Telegraphic apparatus	May 28, 1861.
	Phillips & Norton. (See Turner, William, assignor.)			
	Phillips, A. S., and D. A. Haviland. (See Haviland & Phillips.)			
	Phillips, Geo. A., and Thos. F. Wells. (See Seely, Edgar D., assignor.)			
689	Phillips, George B., assignor to J. S. Littell	Newark, N. J.	Wagon wrench	Mar. 12, 1861.
1449	Phillips, George B., assignor to Jno. S. Littell	Newark, N. J.	Wrenches	May 28, 1861.
2748	Phillips, Henry J.	New York, N. Y.	Convertible overcoat and tent	Nov. 19, 1861.
	Phillips & Ingraham. (See Vedder, N. S., assignor.)			
1526	Phillips, J. H.	Waverly, Mo.	Hemp breaks	June 11, 1861.
819	Phillips, Thomas	Ann Arbor, Mich.	Arrangement of carriage spring	Mar. 26, 1861.
993	Phillips, Thomas	Ann Arbor, Mich.	Handle for hammers, &c.	April 9, 1861.
	Phoebus, F., and H. T. Anthony.			
	Pierce, Charles S. (See Short, Levi, assignor.)			
	Pierce, Samuel B., and Wm. H. H. Burnham. (See Burnham & Pierce.)			
136	Pierce, Samuel	Troy, N. Y.	Cooking stoves	Dec. 3, 1861.
137	Pierce, Samuel	Troy, N. Y.	Cooking stoves. (Division of reissue.)	Dec. 3, 1861.
2045	Pierpont, William	Salem, N. J.	Thresher and cleaner of grain	Aug. 13, 1861.
3006	Pierpont, William	Salem, N. J.	Straw carriers and grain separators for threshing machines.	Dec. 24, 1861.
305	Pimnor, Ferdinand	Grand Junction, Tenn.	Ditching ploughs	Feb. 12, 1861.
1262	Pine, James, assignor to self and J. J. Viele	Troy, N. Y.	Rakes for harvesters	May 7, 1861.
1233	Pine, James, assignor to self and J. J. Viele	Troy, N. Y.	Harvesters	May 7, 1861.
2553	Pine, James, assignor to self and J. J. Viele	Troy, N. Y.	Harvesters	Oct. 22, 1861.
732	Piper, Enoch	Camden, Maine	Method of preserving fish	Mar. 19, 1861.
2538	Piper, John L.	Altoos, a, Pa.	Bearing block for bridge trusses	Oct. 22, 1861.
1140	Pitel, John C.	West Meriden, Conn.	Clock escapement	April 23, 1861.
1885	Pitt, William	Ithaca, N. Y.	Lamps	July 23, 1861.
1482	Pittman, Decatur	Fort Madison, Iowa	Animal traps	June 4, 1861.
80	Pitts, Jno. A., deceased, to Jas. Brayley and Mary Pitts, administrators of.	Buffalo, N. Y.	Horse powers. (Reissue.)	May 21, 1861.
	Pitts, Wesley, and P. G. Walker. (See Deming & Walker, assignors.)			
	Plant, A. P., et al. (See Miles, Purches, assignor.)			
	Plants Manufacturing Co. (See Miles, Purches, assignor.)			
	Plants Manufacturing Co. (See Miles, Purches, assignor.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2398	Platt, A. H., and W. S. Rosecrans	Cincinnati, Ohio	Lamps	Oct. 1, 1861.
2399	Platt, A. H., and W. S. Rosecrans	Cincinnati, Ohio	Scale and weighing apparatus	Oct. 1, 1861.
	Platts, Hervey, and Wait T. Huntington. (See Mix, E.M. & J.E., assignors.)			
1483	Plumer, John C.	Portland, Me.	Boots and shoes	June 4, 1861.
27	Plummer, John T.	Plainfield, Conn.	Machinery for drawing and twisting wool	Jan. 1, 1861.
733	Pohlmann, Daniel	Baltimore, Md.	Railroad safety brake	Mar. 19, 1861.
2897	Polino, Alfred	Paris, France	Camp bedstead.... (Patented in France April 23, 1859.)	Dec. 10, 1861.
1886	Pollard, Leonard L.	Worcester, Mass.	Auger handle	July 23, 1861.
2898	Pollock, David	Lancaster, Pa.	Connecting rods for locomotives	Dec. 10, 1861.
2899	Pomeroy, John H.	Jordan, N. Y.	Steam engine governor	Dec. 10, 1861.
115	Pond, Joseph F.	Cleveland, Ohio	Washing machine	Aug. 13, 1861.
2099	Pond, Joseph F.	Cleveland, Ohio	Seed planters	Aug. 20, 1861.
2046	Pond, Moses	Boston, Mass.	Cooking range	Aug. 13, 1861.
	Pool, J. A. & G. G., and J. B. Morehead. (See Morehead & Pool.)			
1734	Poole, James, assignor to self and James Ingram	New York, N. Y.	Gas burners	July 2, 1861.
2260	Pope, Samuel P.	Burlington, N. Y.	Machines for trimming leather	Sept. 10, 1861.
2047	Port, Henry	New York, N. Y.	Boots and shoes	Aug. 13, 1861.
	Porter, Alexander. (See Hazard, Rusel, assignor.)			
1579	Porter, Charles T.	New York, N. Y.	Centrifugal governors for steam engines	June 18, 1861.
616	Porter, John	Jefferson, Texas	Steam boiler	Mar. 5, 1861.
2900	Porter, Robert D.	Zanesville, Ohio	Currycombs	Dec. 10, 1861.
2222	Porter, Rufus, assignor to self and H. T. Litchfield	Melrose, Mass.	Apparatus for elevating liquids by retained power	Sept. 3, 1861.
1642	Porter, Thomas W.	Bangor, Me.	Ox yokes	June 25, 1861.
1580	Post, Abel	Henrietta, N. Y.	Mode of ventilating hay, grain, &c.	June 18, 1861.
	Post, G. H. (See Prescott, Peter, assignor.)			
1847	Post, Simeon S. & Andrew J., assignors to A. J. Post and E. C. Clark.	Jersey City, N. J.	Lamps	July 16, 1861.
617	Potter, Charles, jr.	Westerly, R. I.	Printing presses	Mar. 5, 1861.
	Potter, H. S., and T. S. Cone. (See Cone & Potter.)			
2791	Potts, Joseph D.	Pittsburg, Pa.	Retracker for railroad cars	Nov. 26, 1861.
1887	Powell, M. L.	New Castle, Ind.	Burglars alarm	July 23, 1861.
618	Power, John N.	New York, N. Y.	Method of jointing telegraphic conductors	Mar. 5, 1861.
2597	Powers, Charles, and P. Lancaster.	Bronson, Mich.	Binding attachment to harvesters	Oct. 29, 1861.
472	Powers, Hiram	Florence, Italy	Punching machine	Feb. 19, 1861.
1308	Powers, Thomas	Philadelphia, Pa.	Gas regulators	Mar. 19, 1861.
254	Powers, Titus	Philadelphia, Pa.	Locks	Jan. 29, 1861.
2812	Pratt, Francis A., assignor to Geo. S. Lincoln & Co.	Hartford, Conn.	Stopping and changing motion	Nov. 26, 1861.
2223	Pratt, H. S., assignor to J. J. Hough & Co.	Hartford, Conn.	Tinsmith shears	Sept. 3, 1861.
	Pratt, Julius, & Co. (See Savage, Elliot, assignor.)			
	Pratt, Reynolds & Devoe. (See Drummond, Jas. F., ass'r.)			
	Pratt, Whitney & Co. (See Stannard, Monroe, assignor.)			
2462	Prescott, Peter, assignor to self and G. H. Post	Rooneville, N. Y.	Lathes for turning broom handles	Oct. 8, 1861.
575	Preston, F. B., assignor to self and W. H. Stapleton	Fayette, Mo.	Corn planters	Feb. 26, 1861.

1643	Preston, Jno. Augustus	Boston, Mass.	Bottle stoppers	June 25, 1861.
2261	Preston, K. H. C.	Manlius, N. Y.	Guard fingers for harvesters	Sept. 10, 1861.
2971	Preston, K. H. C., assignor to E. P. Russell.	Manlius, N. Y.	Harvesters	Dec. 17, 1861.
	Pressey, John B., and Daniel Sheets. (See Sheets & Pressey.)			
396	Prince, Whitman	Mount Olive, N. C.	Cultivators	Feb. 12, 1861.
	Prince, G. A., and Thomas Stephenson. (See Woodbury, Hiram, assignor.)			
	Prince, assignor to Neumann. (See Neumann, Casar)			
1076	Pritz, Adam	Dayton, Ohio	Harvesters (Reissue)	April 16, 1861.
33	Probst, Charles	Hudson City, N. J.	Window glass (Design)	April 9, 1861.
1846	Pruden, D. R., assignor to self and C. A. Wellington	West Meriden, Conn.	Ornamenting hollow articles of metal	July 16, 1861.
	Prussing, E., and O. T. L. Heine. (See Heine & Prussing.)			
2792	Puffer, A. D.	Somerville, Mass.	Soda fountains	Nov. 26, 1861.
1581	Pullan, Richard B.	Cincinnati, Ohio	Bedstead drapery fastener or suspender	June 18, 1861.
2955	Pullan, R. B.	Cumminsville, Ohio	Tents	Dec. 17, 1861.
3025	Pullan, R. B., assignor to Jessie D. Pullan	Cincinnati, Ohio	Lamps	Dec. 24, 1861.
	Pulver, Wm. H.	Troy, N. Y.	Fire-grates	July 27, 1861.
	Punchus, J. (See Davis & Punchus.)			
184	Purinton, Frederick H.	Williamantic, Conn.	Drawer alarms	Jan. 22, 1861.
2598	Putnum, Henry W.	Cleveland, Ohio	Apparatus for filling bottles.	Oct. 29, 1861.
2956	Putnam, Henry W.	Cleveland, Ohio	Clothes wringer	Dec. 17, 1861.
619	Putnam, Silas S.	Dorchester, Mass.	Curtain fixture	Mar. 5, 1861.
1527	Putnam, Silas S.	Dorchester, Mass.	Horse-shoe nail machine	June 11, 1861.
2445	Quackenbush, Abram P.	Brooklyn, N. Y.	Washing machine	Oct. 8, 1861.
2016	Quann, William, assignor to self and William N. & Jos. H. Taylor, assignors to Wm. Quann, Wm. N. Taylor, and Lathrop & Wetmore.	Philadelphia, Pa.	Process for the reduction of iron ore	Aug. 6, 1861.
85	Quarton, W. B.	Carlville, Ill.	Seeding machines	Jan. 8, 1861.
1430	Quigley, John	Winona, Minn.	Animal traps	May 28, 1861.
734	Quinby, W. F.	Stanton, Del.	Cultivators	Mar. 19, 1861.
2793	Quinby, W. F.	Stanton, Del.	Apparatus for navigating the air	Nov. 26, 1861.
994	Quinn, Abraham	New York, N. Y.	Apparatus for distilling oils	April 9, 1861.
	Rabbeth, James	East Hartford, Conn.	Diaper pins (Extension)	Jan. 19, 1861.
1644	Race, George	Norwich, N. Y.	Water elevators	June 25, 1861.
34	Race, Washburn, assignor to S. H. Ransom & Co.	Seneca Falls, N. Y.	Register for stoves (Reissue)	Feb. 19, 1861.
	Raden, Reuben, and George Hall. (See Hatfield, W. E., assignor.)			
2100	Rahill, James	Ramsgate, Eng.	Artificial horizons for quadrants. (Patented in England July 30, 1860.)	Aug. 20, 1861.
1888	Rainey, Thomas	New York, N. Y.	Car seats	July 22, 1861.
1200	Rains, George W.	Newburg, N. Y.	Steam boilers	April 30, 1861.
1528	Rains, George W.	Newburg, N. Y.	Safety apparatus for steam boilers	June 11, 1861.
2487	Ralph, Alexander	Newcastle county, Del.	Foot-scraper	Oct. 15, 1861.
	Ralston, A., and Benjamin Hoyle. (See Hoyle & Ralston.)			
1141	Ramsay, John, and A. B. Smith	Clinton, Pa.	Guides for cutting out pantaloons	April 23, 1861.
	Rand, J. B. (See Long, Wm. A. N., assignor.)			
	Rand, J. B. (See Long, Wm. A. N., assignor.)			
2048	Rand, Jacob B., and W. A. N. Long, assignors to J. B. Rand	Fisherville, N. H.	Corn shellers	Aug. 13, 1861.
1709	Rand, John S.	North Providence, R. I.	Water elevators	July 2, 1861.
620	Randall, David F.	Hartford, Conn.	Tatting frames	Mar. 5, 1861.
2554	Randall, D. F., assignor to E. W. Sperry, J. H. Ashmead, E. Hurlbut, and H. E. Robbins, assignors to S. S. Rogers and Green Kendrick.	Hartford, Conn.	Burnishing machine	Oct. 23, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2555	Randall, Henry, assignor to self and Isaac P. Baldwin	Philadelphia, Pa.	Ship building	Oct. 22, 1861.
901	Randall, William	Uxbridge, Canada	Excavator	April 2, 1861.
1199	Randall, A.	New York, N. Y.	Preparing paper stock	April 30, 1861.
1335	Range, John, assignor to J. & E. Parker	Meriden, Conn.	Thumb latch	May 14, 1861.
	Rankin, Andrew. (See Delastatus, Alfred, assignor.)			
3007	Rankin, Wm.	New York, N. Y.	Tents	Dec. 24, 1861.
277	Ransom, A., assignor to self and George R. Comstock	Manheim, N. Y.	Machine for turning boot-legs.	Jan. 29, 1861.
763	Ransom, Albion, and R. D. Granger, assignors to S. H. Ransom & Co.	Albany, N. Y.	Tea-kettles	Mar. 19, 1861.
	Ransom & Co. (See Ransom & Granger, assignors)			
	Ransom, S. H., & Co. (See Race, Washburn, assignor.)			
1710	Rappiey, T. S. & T. W.	Farmer, N. Y.	Ploughs	July 2, 1861.
	Rathbone, John F. (See Gibbs, Samuel W., assignor.)			
	Rathbone, John F. (See Gibbs, Samuel W., assignor.)			
	Rathbone, John F. (See Gibbs, Samuel W., assignor.)			
	Rathbone, John F. (See Gibbs, Samuel W., assignor.)			
902	Rawson, D. W. S.	Galena, Ill.	Varnishing photographs on paper.	April 2, 1861.
1780	Rawson, Henry	Leicester, England	Machines for combing wool.	July 9, 1861.
2488	Rawson, Rucl.	Warsaw, Ind.	Sawssets.	Oct. 15, 1861.
2749	Ray, Charles.	Boston, Mass.	Stirrups.	Nov. 19, 1861.
1781	Raymond, Charles	Brattleboro', Vt.	Sewing machines	July 9, 1861.
1921	Raymond, Charles.	Brattleboro', Vt.	Sewing machines	July 30, 1861.
	Raynolds, Devoe & Pratt. (See Drummond, Jas. F., ass't.)			
	Read, R. (See Seidler, George N., assignor.)			
2847	Ready, William B.	Sacramento, Cal.	Gang ploughs	Dec. 3, 1861.
1809	{ Reckendorfer, Joseph, and J. C. Richards.	{ New York, N. Y. Brooklyn, N. Y.	{ Envelope	{ July 9, 1861.
1712	Redding, John W.	Belleville, Ohio.	Pumps.	July 2, 1861.
	Redfield, Geo. B., trustee, for the benefit of C. Gates, et al. (See Sprague, Joseph W., assignor.)			
84	Redington, F. A., and G. McCluer.	Fredonia, N. Y.	Manufacture of cheese.	May 21, 1861.
2359	Reed, Benjamin	Pittsburg, Pa.	Washing machines.	Sept. 24, 1861.
995	Reed, George P.	Roxbury, Mass.	Watch escapement.	April 9, 1861.
735	Reed, James.	Newville, Ohio	Water wheels.	Mar. 19, 1861.
	Reed, John B., and R. A. Blair. (See Blair & Reed)			
820	Reed, William G.	Chelsea, Mass.	Metallic roofing	Mar. 26, 1861.
1377	Reese, Abraham.	Pittsburg, Pa.	Bolt and rivet machine	May 21, 1861.
	Reese, A. R., and G. W. Lee. (See Lee & Reese.)			
2659	Reese, A. R., Wm. Gould, and Nelson Lake.	Phillipsburg, N. J.	Rakes for harvesters	Nov. 5, 1861.
323	Reese, Jacob.	Pittsburg, Pa.	Construction of the fire chambers, and in operating the fires of reverberatory furnaces.	Feb. 5, 1861.
2262	Reeve, Augustus.	Allowaystown, N. J.	Shutter and blind bolt	Sept. 10, 1861.
1889	Reester, Joshua.	Baltimore, Md.	Street washers.	July 23, 1861.
2489	Reidy, James	Cork, Ireland.	Machines for breaking stones and other hard substances.	Oct. 15, 1861.
30	Reif, Christian.	Hartleton, Pa.	Clover separators	Feb. 5, 1861.

1735	Reighard, Jacob, assignor to Hale, Atterbury & Co.	Birmingham, Pa.	Glass lamps	July 2, 1861,
	Reiley, R. T., et al. (See McMinn, Geo. W., assignor.)			
9599	Reiniger, G. A.	Stuttgart, Wurtemberg.	Machines for making the bodies of cigars	Oct. 29, 1861.
2600	Reiniger, G. A.		Machine for putting on the wrappers of cigars	Oct. 29, 1861.
137	Reister, George H., assignor to self, E. Cadwalader, and L. S. Butterfield.	Washington, Iowa.	Windmills	Jan. 15, 1861.
28	Reist, John	Philadelphia, Pa.	Scissors	Jan. 1, 1861
736	{ Relyea, George U., and John Relyea.	{ Veteran, N. Y. Horse Heads, N. Y.	Straw-cutters	Mar. 19, 1861.
397	Renshaw, James H.	Knoxville, Tenn.	Metallic coffins	Feb. 12, 1861.
797	Renzen, William C.	Keokuk, Iowa	Hand trucks	Mar. 19, 1861.
821	Renzen, W. C., and P. H. Holmes	Keokuk, Iowa	Fan attachment for threshing machines	Mar. 26, 1861.
2360	Resor, William	New York, N. Y.	Propeller	Sept 24, 1861.
1077	Resor, William	Cincinnati, Ohio	Cooking stoves	April 16, 1861.
822	Reynolds, Charles H.	New York, N. Y.	Wrench	Mar. 26, 1861.
29	Reyno ds, George H.	New York, N. Y.	Mounting lithographic stones	Jan. 1, 1861.
1911	Reynolds, Geo. S., assignor to self, James Brown, and J. M. Whitney.	Tunbridge, Vt.	Harvesters	July 23, 1861.
1838	Reynolds, H. H.	Buffalo, N. Y.	Instruments for cure of spermatorrhœa	July 16, 1861.
2158	Reynolds, H. H.	Buffalo, N. Y.	Spermatorrhœa instrument	Aug. 27, 1861.
324	Reynolds, Ira	Bellefontaine, Ohio	Straw cutters	Feb. 5, 1861.
209	Reynolds, John P., assignor to H. H. Robertson and C. G. Carr.	Mirabile, Mo.	Harness for shoeing horses	Jan. 22, 1861.
1480	Reynolds, Oliver	Webster, N. Y.	Bee hives	June 4, 1861.
1378	Reynolds, Rensselaer	Stockport, N. Y.	Let off motion for looms	May 21, 1861.
3098	Reynolds, Rensselaer	Stockport, N. Y.	Friction clutches	Dec. 24, 1861.
1142	Reynolds, Samuel	Duquesne Borough, Pa.	Handle for hoes	April 23, 1861.
398	Reynolds, Stephen	Richmond, Ind.	Machines for binding grain	Feb. 12, 1861.
1645	Rhoades, George M.	Hamilton, N. Y.	Machines for trimming teasels	June 25, 1861.
1713	Rhoades, George M.	Hamilton, N. Y.	Butter workers	July 2, 1861.
1646	Rhoads, William B.	South Dedham, Mass.	Clothes wringer	June 25, 1861.
903	Rible, John H.	Dayton, Ohio	Mowing machines	April 2, 1861.
671	Rice, Byron	Schuyler, N. Y.	Grain separators	Mar. 12, 1861.
1078	Rice, George W.	Demopolis, Ala.	Cotton cultivators	April 16, 1861.
210	Rice, Quartus, assignor to Lorenzo Rice	Nevada, Cal.	Sewing machines	Jan. 22, 1861.
425	Rice, Quartus, assignor to self and L. H. Smith	West Winsted, Conn.	Sewing machines	Feb. 12, 1861.
2865	Rice, Samuel G., assignor to self and Hezekiah Dodge.	Albany, N. Y.	Sash fasteners	Dec. 3, 1861.
255	Rich, Tamson G.	Milton, Mass.	Ankle supporting gaiters.	Jan. 29, 1861.
	Richards, Allen. (See Brown, J. F., assignor.)			
621	Richards, C. B.	Brooklyn, N. Y.	Sewing machines	Mar. 5, 1861.
	Richards & Goble. (See Williamson, George, assignor.)			
2449	Richards, Henry E.	Newark, N. J.	Coffee roasters	Oct. 8, 1861.
	Richards, J. C., and J. Reckendorfer. (See Reckendorfer & Richards.)			
1912	Richards, William H., assignor to Charles T. Babcock.	Newton, Mass.	Combined knife, fork, and spoon	July 23, 1861.
2448	Richardson, Charles	Auburn, N. Y.	Machine for rolling horseshoe iron	Oct. 8, 1861.
622	Richardson, Francis B.	Boston, Mass.	Enema syringes	Mar. 5, 1861.
1665	Richardson, Geo. M., assignor to self and Robert Glover	Grayville, Ill.	Harvesters	June 25, 1861.
1647	Richardson, N. H.	Fitchburg, Mass.	Rattan machine	June 25, 1861.
1714	Richardson, T. M.	Searsport, Maine	Baggage director	July 2, 1861.
1079	Richmond, E. J., and T. Wright	New York, N. Y.	Stable broom	April 16, 1861.
2660	Richmond, T. R.	Massillon, Ohio.	Seeding machines	Nov. 5, 1861.
2159	Richter, Frederick.	Orange, Ohio.	Portable fences	Aug. 27, 1861.
102	Rickerby, Daniel.	Boston, Mass.	Slate roofing (Design)	Aug. 13, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
904	Ricketson, Barton.....	New Bedford, Mass.....	Apparatus for setting up ships' rigging.....	April 2, 1861.
3009	Rider, Alexander K.....	Hydeville, Vt.....	Cut-off gear for steam-engines.....	Dec. 24, 1861.
2003	Rider, Joseph.....	Newark, Ohio.....	Water elevators.....	Aug. 6, 1861.
996	Ridout, Moses T.....	Milwaukee, Wis.....	Railroad indicator.....	April 9, 1861.
2539	Ridout, Moses T.....	Milwaukee, Wis.....	Bootjack.....	Oct. 22, 1861.
2210	Riess, William, sr.....	Reading, Pa.....	Manufacturing of sheet iron.....	Sept. 3, 1861.
798	Riggs, William S.....	Highstown, N. J.....	Cultivators.....	Mar. 19, 1861.
399	Riling, Martin.....	Altoona, Pa.....	Sausage stuffer.....	Feb. 12, 1861.
1921	Rinewart, George, jr.....	Brattleborough, Vt.....	Wood planing machine.....	July 30, 1861.
31	Ripley, Ezra.....	Troy, N. Y.....	Mode of hanging covers to baled metallic hollow ware.....	Jan. 1, 1861.
30	Ripley, Ezra.....	Troy, N. Y.....	Wrench.....	Jan. 1, 1861.
2540	Ripley, Ezra.....	Troy, N. Y.....	Repeating gun battery..... (Design).....	Oct. 22, 1861.
	Ripley, E., and N. S. Vedder. (See Vedder & Ripley.)			
1080	Richey, Powers.....	Hamilton, Ill.....	Corn planters.....	April 16, 1861.
	Robbins, H. E., et al. (See Randall, D. F., assignor.)			
553	Roberds, J. M.....	Washington, D. C.....	Bridle bits.....	Feb. 26, 1861.
1081	Roberts, Cyrus.....	Belleville, Ill.....	Machines for threshing and separating grain.....	April 16, 1861.
849	Roberts, Edward, assignor to Code, Hopper & Gratz.....	Philadelphia, Pa.....	Time tell-tale.....	Mar. 26, 1861.
	Roberts, George O. (See Page, Charles G., assignor.)			
400	Roberts, Mark L.....	Mount Union, Ohio.....	Knitting machines.....	Feb. 12, 1861.
1336	Roberts, S., assignor to self and Alfred Adams.....	Cleveland, Ohio.....	Barrel.....	May 14, 1861.
554	Roberts, Sheridan.....	Cleveland, Ohio.....	Method of making barrels.....	Feb. 26, 1861.
126	Roberts, Washington.....	Rocheport, Mo.....	Covering ploughs.....	Jan. 15, 1861.
	Robertson, Carr. (See Reynolds, John P., assignor.)			
401	Robertson, Daniel M.....	Manchester, N. H.....	Machine for feeding screw blanks.....	Feb. 12, 1861.
	Robertson, George W. (See Neuman, Joseph, assignor.)			
2490	Robertson, James.....	New York, N. Y.....	Portable water-closet utensil.....	Oct. 15, 1861.
402	Robertson, W. B.....	West Baton Rouge, La.....	Cane harvesters.....	Feb. 12, 1861.
	Robins, S. P., et al. (See Scott, John A., assignor.)			
1143	Robinson, Charles.....	Cambridgeport, Mass.....	Clothes dryer.....	April 23, 1861.
2463	Robinson, Enoch, assignor to Old Colony Iron Company.....	Raynham, Mass.....	Machine for bending wood.....	Oct. 8, 1861.
823	Robinson, George C.....	Boston, Mass.....	Apparatus for drying salt..... (Antedated Oct. 8, 1860.).....	Mar. 23, 1861.
1715	Robinson, George W.....	Somerville, Mass.....	Steering apparatus.....	July 2, 1861.
623	Robinson, J. R.....	Boston, Mass.....	Steam boiler furnaces.....	Mar. 5, 1861.
739	Robinson, J. R.....	Boston, Mass.....	Steam boiler furnaces.....	Mar. 19, 1861.
740	Robinson, J. R.....	Boston, Mass.....	Damper for metallic tubular steam boiler.....	Mar. 19, 1861.
1202	Robinson, J. R.....	Boston, Mass.....	Safety plugs for steam boilers.....	April 30, 1861.
1201	Robinson, J. R.....	Boston, Mass.....	Steam-engines.....	April 30, 1861.
1309	Robinson, J. R.....	Boston, Mass.....	Steam boiler's furnaces.....	May 14, 1861.
79	Robinson, J. R.....	Boston, Mass.....	Steam boiler furnaces..... (Reissue.).....	May 14, 1861.
1530	Robinson, J. R.....	Boston, Mass.....	Valve gear of steam-engines.....	June 11, 1861.
1529	Robinson, J. R.....	Boston, Mass.....	Dampers for steam boilers.....	June 11, 1861.
1582	Robinson, John.....	North Andover, Mass.....	Picker-motion for looms.....	June 18, 1861.
	Robinson, S. B., and R. G. Turner. (See Turner & Robinson.)			

2601	Robinson, William	Rochester, N. Y.	Mode of watering cattle on railroad cars	Oct. 29, 1861.
1481	Robinson, W. W.	Ripon, Wis.	Pumps	June 4, 1861.
2957	Rochow, Ferdinand	New York, N. Y.	Rotary pumps	Dec. 17, 1861.
2049	Rockwell, T. B. & R. N.	Batavia, Ill.	Seed planters	Aug. 13, 1861.
997	Rodd, Horatio	Chestnut Hill, Pa.	Linen smoother	April 9, 1861.
2278	Rodgers, George H., assignor to self and John Rodgers	Baltimore, Md.	Hydrants	Sept. 10, 1861.
185	Rodier, Louis C.	Springfield, Mass.	Tool handles	Jan. 22, 1861.
555	Rodman, J. M.	South Union, Ky.	Ploughs	Feb. 26, 1861.
824	Roe, Martin	Watertown, Mass.	Casting ordnance, &c. (Extension.)	July 29, 1861.
2361	Roebuck, Samuel	Townsend, Ohio	Sugar mills	Mar. 26, 1861.
	Roeder, H. E., et al. (See Muller, Julius J., assignor.)	Brooklyn, N. Y.	Mosquito bar	Sept. 24, 1861.
2362	Roeder, Henry E.	New York, N. Y.	Car spring	Sept. 24, 1861.
403	Rogers, Edward G. (See Crane, Moses G., assignor.)	Grafton, Ohio	Ploughs	Feb. 12, 1861.
576	Rogers, Henry, et al. (See Forrist & Wheeler, assignors.)	Haverstraw, N. Y.	Furnaces for treating iron ores	Feb. 26, 1861.
1145	Rogers, Isaac, assignor to Samuel Daskam	Philadelphia, Pa.	Method of combining and utilizing steam and air	April 23, 1861.
	Rogers, R. E., and James Black			
	Rogers, S. S., et al. (See Randall, D. F., assignor.)			
	Rogers, S. S., et al. (See Stever, Jeremiah, assignor.)			
1144	Rogowski, John	New York, N. Y.	Night reading desk	April 23, 1861.
2447	Rohrer, Jeremiah	Middleton, Pa.	Bee hives	Oct. 8, 1861.
2363	Roney, Benjamin T.	Bristol Pa.	Coal stoves	Sept. 24, 1861.
33	Rooker, Thomas N.	New York, N. Y.	Type cases	Jan. 1, 1861.
	Roos, August, and F. Streubel. (See Strubel & Roos.)			
	Root & Jewett. (See Stanard, Walter W., assignor.)			
	Root & Jewett. (See Stanard, Walter W., assignor.)			
	Root & Jewett. (See Stanard, Walter W., assignor.)			
1204	Root, John B.	Battle Creek, Mich.	Rotary engines	April 30, 1861.
2446	Root, Riley	Galesburg, Ill.	Processes of clarifying saccharine juices	Oct. 8, 1861.
624	Rose, Israel M.	New York, N. Y.	Sewing machines	Mar. 5, 1861.
	Rosecrans, W. S., and A. H. Platt. (See Platt & Rosecrans.)			
	Rosecrans, W. S., and A. H. Platt. (See Platt & Rosecrans.)			
3026	Rosengerantz, E. D., assignor to self, John S. Hull, and Nelson Gates	Cincinnati, Ohio	Lamps	Dec. 24, 1861.
40	Ross, F. A., and William H. Marshall	New York, N. Y.	Sewing machine cases	Feb. 26, 1861.
2364	Ross, Julia A., executrix of James P. Ross, deceased	Lewisburg, Pa.	Valve-gear for steam engines	Sept. 24, 1861.
1203	Ross, Joseph W.	Boston, Mass.	Inkstands	April 30, 1861.
825	Ross, Noble G.	Cincinnati, Ohio	Sewing machines	Mar. 26, 1861.
2504	Ross, Robert, assignor to self and Richard Bond	Pittsburg, Pa.	Oil-cup or lubricator	Oct. 15, 1861.
	Rote, Samuel, and J. Goodman. (See Goodman & Rote.)			
556	Roughton, E.	Frostburg, Md.	Arrangement of carriage springs	Feb. 26, 1861.
2681	Rouillon, O. A. A., assignor to W. Hermann Stubbe	New York, N. Y.	Bed bottom	Nov. 5, 1861.
672	Rounds, Marcus M.	New Haven, Conn.	Furnace grates	Mar. 12, 1861.
1890	Rounds, Stephen M.	Somerset, Mass.	Extension table	July 23, 1861.
32	Rowand, Archibald H.	Alleghany, Pa.	Coupling for railroad cars	Jan. 1, 1861.
315	Rowand, Archibald H.	Alleghany, Pa.	Coupling for railroad cars (Additional improvement)	Feb. 26, 1861.
2651	Rowand, John Randolph	Philadelphia, Pa.	Mode of diminishing effect of collision on railways	Nov. 5, 1861.
352	Rowe, John L., assignor to M. Merrill and T. Holmes	New York, N. Y.	Nozing for locks	Feb. 5, 1861.
762	Rowe, John L., assignor to self and T. Rudderforth	New York, N. Y.	Ice crusher	Mar. 19, 1861.
1205	Rowe, William	Charlestown, Va.	Machines for threshing and cleaning clover	April 30, 1861.
	Rower, Brinkerhoff, et al. (See Burr, Theodore, assignor.)			
	Rower, Theodore, et al. (See Burr, Theodore, assignor.)			

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
186	Roys, Thomas W. Ruddeforth, T., et al. (See Rowe, Jno. L., assignor.)	Southampton, N. Y.	Harpoon guns.	Jan. 22, 1861.
473	Ruggles, Daniel.	Barre, Mass.	Brakes for sewing machines.	Feb. 19, 1861.
673	Rutioison, J., and D. DeGarmo.	Rochester, N. Y.	Ploughs.	Mar. 12, 1861.
2004	Russell, Albert.	Newburyport, Mass.	Pumps.	Aug. 6, 1861.
905	Russell, Andrew J.	New York, N. Y.	Adhesive material.	April 2, 1861.
998	Russell, Benjamin.	Brooklyn, N. Y.	Door bolt.	April 9, 1861.
1716	Russell, Caleb.	Pittsburg, Pa.	Apparatus for destroying insects, reptiles, &c.	July 2, 1861.
1783	Russell, Edmund.	Brooklyn, N. Y.	Oscillating steam engines.	July 9, 1861.
741	Russell, E. P.	Manlius, N. Y.	Fingers for harvesters.	Mar. 19, 1861.
2709	Russell, E. P.	Manlius, N. Y.	Reels for harvesters.	Nov. 12, 1861.
2708	Russell, E. P.	Manlius, N. Y.	Harvesters.	Nov. 12, 1861.
3010	Russell, E. P. Russell, E. P. (See Preston, K. H. C., assignor.) Russell & Erwin, manufacturing company. (See Lyons, Thomas, assignor.)	Manlius, N. Y.	Harvesters.	Dec. 24, 1861.
2101	Russell, Stephen H.	Boston, Mass.	Canteen filler.	Aug. 20, 1861.
2541	Ruth, Jacob.	Philadelphia, Pa.	Apparatus for removing invalids.	Oct. 22, 1861.
1250	Ryerson, Van Buren.	New York, N. Y.	Method of distillation.	May 7, 1861.
1484	Ryerson, Van Buren.	New York, N. Y.	Modes of condensing mercury in amalgamating vessels.	June 4, 1861.
1784	Sabbaton, Jos. A. Sackett, Davis & Co. (See Perry, Edwin H., assignor.) Safely & Fuller. (See Parkhurst, Orson, assignor.)	New York, N. Y.	Dry gas metres.	July 9, 1861.
742	Safford, J. A.	Boston, Mass.	Machine for splitting leather. (Antedated Nov. 19, 1860).	Mar. 19, 1861.
112	Sailor, S. H., assignor to Smith, Francis & Wells.	Philadelphia, Pa.	Gas-burning cylinder stove. (Design)	Oct. 8, 1861.
111	Sailor, S. H., assignor to Smith, Francis & Wells.	Philadelphia, Pa.	Egg-cylinder stove. (Design)	Oct. 8, 1861.
1648	Saladee, Cyrus W.	Jefferson county, Texas.	Steam ploughs.	June 25, 1861.
474	Salmon, W. C., and George F. Bliss.	Placerville, Cal.	Machine for upsetting tire.	Feb. 19, 1861.
557	Sammons, J. S.	New York, N. Y.	Roofing with slate.	Feb. 25, 1861.
1379	Sammons, J. S.	New York, N. Y.	Mode of roofing with slate.	May 21, 1861.
1839	Samson, George W.	Washington, D. C.	Apparatus for heating railroad cars with steam.	July 16, 1861.
1583	Sanborn, Augustus.	Glover, Vt.	Hill side ploughs.	June 18, 1861.
906	Sanborn, Rufus S.	Sycamore, Ill.	Coffee steeper.	April 2, 1861.
86	Sanford, Gelston.	New York, N. Y.	Horse-powers.	Jan. 8, 1861.
404	Sanford, Gelston.	New York, N. Y.	Mills for grinding paper pulp.	Feb. 12, 1871.
475	Sanford, Gelston. Sanford, Harroun & Co. (See Hill, Geo. J., assignor.)	New York, N. Y.	Machines for treating vegetable fibre.	Feb. 19, 1861.
1431	Sanford, N. C.	Meriden, Conn.	Skates.	May 28, 1861.
1310	Sanford, Thomas. Sanford, W. A. (See Hewitt, Henry, assignor.)	Claremont, N. H.	Steam cock.	May 14, 1861.
256	Sargent, C. G.	Chelsea, Mass.	Clothes dryer.	Jan. 29, 1861.
2848	Sargent, Charles G.	Graniteville, Mass.	Machines for cleaning fibrous materials.	Dec. 3, 1861.
38	Sargent, J. B.	New Britain, Conn.	Twine box. (Design)	April 30, 1861.
2308	Sargent, S., assignor to self and Alvin P. Knapp.	Watertown, Mass.	Coal oil lanterns.	Sep. 17, 1861.
405	Saunders, I. J.	Sparta, Ga.	Guano spreaders.	Feb. 12, 1861.

87	Saunders, Wm H	Hastings, N. Y.	Couplings for connecting thills to the axles of carriages.	Jan. 8, 1861.
1963	Savage, Elliot, assignor to Julius Pratt & Co	West Meriden, Conn.	Machine for gauging and toothing ivory for piano-forte keys.	July 30, 1861.
999	Savage, Edward B	Cromwell, Conn.	Attaching gun-stocks to pistols.	April 9, 1861.
476	Savage, Silas T.	Albany, N. Y.	Stoves	Feb. 19, 1861.
2750	Sawyer, Addison M.	Fitchburg, Mass.	Cannister-shot for ordnance	Nov. 19, 1861.
2901	Sawyer, G. T., W. Howland, jr., and T. C. Hatch.	New Bedford, Mass.	Setting stills.	Dec. 10, 1861.
68	Sawyer, J. & S., assignors to American Hoop Machine Co.	Fitchburg, Mass.	Hoop machines. (Reissue)	April 16, 1861.
1531	Sawyer, Joseph B	Templeton, Mass.	Cane-seat for chairs	June 11, 1861.
1030	Sawyer, Landon, assignor to self and A. M. Billings.	Springfield, Vt.	Slide and curtain roller	April 9, 1861.
3036	Sawyer, Sylvanus	Fitchburg, Mass.	Fuse hood for shells	Dec. 24, 1861.
3037	Sawyer, Sylvanus	Fitchburg, Mass.	Mandrel for loading case shot, &c.	Dec. 24, 1861.
3027	Saxton, James A. (See Hall, Andrew M., assignor.)	Utica, N. Y.	Projectiles for rifled ordnance	Dec. 24, 1861.
406	Savre, Charles H., assignor to self and Charles E. Barnard.	New York, N. Y.	Anvils	Feb. 12, 1861.
2621	Schadt, Charles Henry	New York, N. Y.	Machinery for dressing hemp or flax.	Oct. 29, 1861.
	Schaffer, G. F., assignor to self, August Schmidt, and Jas. T. Steer.			
2751	Schankwiler, Thomas	Fayette, N. Y.	Mode of constructing horse-powers	Nov. 19, 1861.
2491	Schankl, John P.	Boston, Mass.	Safety concussion fuse for explosive projectiles	Oct. 15, 1861.
2849	Scheeper, John	New York, N. Y.	Combined axle lubricator and carriage lantern	Dec. 3, 1861.
3011	Scheeper, John	New York, N. Y.	Mode of securing carriage wheel hubs to axles	Dec. 24, 1861.
34	Schenerle, Henry	New York, N. Y.	Punches for making slides for hoop skirts	Jan. 1, 1861.
54	Schilling, Wm., assignor to self and Jesse Klinefelter	Baltimore, Md.	Manufacture of spirituous liquor from tomatoes	Jan. 1, 1861.
1718	Schmidlin, Wm. G., and Jeremiah W. Driscoll	New York, N. Y.	Reflectors for lamps	July 2, 1861.
2958	Schmidlin, Wm. G., and Jeremiah W. Driscoll	New York, N. Y.	Reflectors for lamps	Dec. 17, 1861.
	Schmidt, August, et al. (See Schaffer, G. F., assignor.)			
907	Schmidt, C. Frederick	Williamsburg, N. Y.	Muzzles for dogs and other animals	April 2, 1861.
325	Schmidt, Frederic E.	New York, N. Y.	Steam generators	Feb. 5, 1861.
35	Schooley, John C.	Cincinnati, Ohio	Refrigerator	Jan. 1, 1861.
908	Schooley, John C.	Cincinnati, Ohio	Bathing apparatus	April 2, 1861.
553	Scholl, John T.	Port Washington, Wis	Life-boat	Feb. 26, 1861.
1251	Schreyer, Gottlieb	Columbus, Ohio	Mode of making the skeins of axle arms for carriages	May 7, 1861.
1649	Schroder, Herman	New York, N. Y.	Breech-loading fire-arm	June 25, 1861.
1891	Schubarth, Casper D.	Providence, R. I.	Breech-loading fire-arms.	July 23, 1861.
	Schulte, A. F. W., and R. Finnegan. (See Finnegan & Schulte.)			
1964	Schuyler, Isaac S., assignor to John J. Eckel	New York, N. Y.	Cotton pickers	July 30, 1861.
2169	Schuyler, Isaac S., assignor to John J. Eckel	New York, N. Y.	Oil press	Aug. 27, 1861.
187	Schuyler, Samuel	Brooklyn, N. Y.	Grain dryers	Jan. 23, 1861.
477	Scofield, Horace G.	North Stamford, Conn.	Sewing-work holders.	Feb. 19, 1861.
	Scofield, James B., et al. (See Warren, Scofield, Wardwell & Jones. Design.)			
1432	Scofield, Oramel B.	East Stoughton, Mass.	Adjustable weather strips.	May 28, 1861.
625	Scott, James H.	Millport, N. Y.	Steam valve	Mar. 5, 1861.
1450	Scott, John A., assignor to self and S. P. Robbins.	Rochester, N. Y.	Grain separators.	May 28, 1861.
1495	Scripture, Eliphaz S., assignor to self and Edward White	New York, N. Y.	Axle collars	June 4, 1861.
91	Scyres, Daniel M., and S. Smith, assignor to Smith, Francis & Wells.	Springville, Pa.	Cook's stove (Design)	July 23, 1861.
92	Scyres, Daniel M., and S. Smith, assignor to Smith, Francis & Wells	Springville, Pa.	Summer range. (Design)	July 23, 1861.
	Seamless Clothing Manufacturing Company. (See Whipple, J. F., assignor.)			
	Sears, J. H., and B. Merritt. (See Merritt & Sears.)			
1892	Seehold, Jacob	New Berlin, Pa.	Grain threshing and separating machines	July 23, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2160	Seeley, David W.	Albany, N. Y.	Churns	Aug. 27, 1861.
1719	Seeley, H. H., and P. Griswold.	Hudson, Mich.	Grain separators	July 2, 1861.
2622	Seeley, Edgar D., assignor to self, George A. Phillips, and Thos. F. Wells.	Brooklin, Mass.	Gun-capping implement.	Oct. 29, 1861.
1000	Seely, Isaac D.	Milford, N. Y.	Water wheels	April 9, 1861.
1001	Seely, O. W.	Albany, N. Y.	Construction of salt kettles	April 3, 1861.
1252	Seely, Samuel J.	Brooklyn, N. Y.	Mode of constructing iron buildings	May 7, 1861.
1399	Seely, Samuel J.	Brooklyn, N. Y.	Construction of iron vessels	May 21, 1861.
2850	Seely, Samuel J.	Brooklyn, N. Y.	Portable body battery	Dec. 3, 1861.
108	Seely, Samuel J., assignor to Chas. W. Durant	New York, N. Y.	Iron railroad cars (Reissue)	July 9, 1861.
	Seelye, J. C., et al. (See Holden, L. & S. B., assignors.)			
1785	Segnitz, B.	New York, N. Y.	Trachea tubes	July 9, 1861.
2492	Seiberling, John F.	Doylestown, Ohio.	Harvesters	Oct. 15, 1861.
559	Seibert, Geo. & John.	Ashley, Ill.	Ploughs	Feb. 26, 1861.
932	Seidler, Geo. N., assignor to R. Read	Hartford, Conn.	Portable folding beds	April 2, 1861.
626	Seitz, John, sr.	Bloom, Ohio	Presses	Mar. 5, 1861.
	Selden, G. M. (See McNamara, D. S., assignor. Reissue.)			
	Selden, G. M. (See McNamara, D. S., assignor. B, division of reissue.)			
	Selden, G. M. (See McNamara, D. S., assignor. C, division of reissue.)			
	Selden, G. M. (See McNamara, D. S., assignor. D, division of reissue.)			
2050	Selden, George M.	Troy, N. Y.	Hydrants	Aug. 13, 1861.
2451	Selleck, Thaddeus, and W. H. Butler	Greenwich, Conn.	Construction of burglar-proof safes	Oct. 8, 1861.
353	Sellers, Coleman, assignor to self and G. Burnham.	Philadelphia, Pa.	Exhibiting stereoscopic pictures of moving objects.	Feb. 5, 1861.
2379	Sellers, Coleman, assignor to Wm. Sellers & Co.	Philadelphia, Pa.	Mode of transmitting motion	Sept. 10, 1861.
188	Sellers, William	Philadelphia, Pa.	Ovens	Feb. 5, 1861.
2602	Selser, John.	Williamsport, Pa.	Self-opening canalbridges	Oct. 29, 1861.
674	Serrell, Alfred T.	New York, N. Y.	Feeding rollers for rotary planing.	Mar. 12, 1861.
	Serrell, Edward W. (See Wood, Joseph, assignor.)			
1082	Service, Thomas	Utica, Pa.	Wagon locks	April 16, 1861.
560	Settle, Campbell T.	San José, Cal.	Seeding cultivators	Feb. 26, 1861.
336	Seward, Moses	New Haven, Conn.	Collar for ornamental carriage work	Feb. 5, 1861.
1002	Seward, Porter	Chaseville, Ohio	Wagon brakes	April 9, 1861.
138	Sexton, S. B.	Baltimore, Md.	Stoves (Reissue)	Dec. 3, 1861.
1893	Sexton, S. B.	Baltimore, Md.	Hot-air register	July 23, 1861.
78	Seymour, Frederick J., assignor to Waterbury Brass Co.	Waterbury, Conn.	Making brass kettles (Reissue)	May 14, 1861.
1894	Seymour, George	Cedar Rapids, Iowa.	Machines for shelling and grinding corn	July 23, 1861.
	S. ymour, Wm. H., et al. (See Palmer & Williams, assignors.)			
72	Seymour, Wm. H., assignor to self, Dayton S. Morgan, Aaron Palmer, and S. G. Williams.	Brockport, N. Y.	Reaping machines (Reissue)	May 7, 1861.
2005	Shafer, Jas. J., assignor to R. J. Robeson	Burlington, Iowa.	Grain winnower	Aug. 6, 1861.
2902	Shaffer, L. W.	Shelbyville, Ky.	Ploughs	Dec. 10, 1861.

896	Shailer, J. S., and G. F. Folsom	Roxbury, Mass.	Water metres	Mar. 26, 1861.
1840	Shaler, Reuben	Madison, Conn.	Projectiles for fire-arms	July 16, 1861.
2710	Shank, C. H., and S. Stephenson	Hummelstown, Pa.	Threshing machines	Nov. 12, 1861.
2959	Shannon, W. A.	Washington, D. C.	Fire-escape ladders	Dec. 17, 1861.
45	Shares, Daniel W.	Hamden, Conn.	Harrows (Reissue)	Mar. 13, 1861.
	Sharp, Wm., <i>et al.</i> (See Wheeler, Grant J., and others.)			
94	Sharps, Christian	Philadelphia, Pa.	Breech-loading repeating fire-arms (Reissue)	June 18, 1861.
1786	Sharps, Christian	Philadelphia, Pa.	Breech-loading fire-arms	July 9, 1861.
1895	Sharps, Christian	Philadelphia, Pa.	Adjustable back sight for fire-arms	July 23, 1861.
2542	Sharps, Christian	Philadelphia, Pa.	Hammer guard to fire-arms	Oct. 23, 1861.
2603	Sharps, Christian	Philadelphia, Pa.	Breech-loading fire-arms	Oct. 29, 1861.
478	Shavor, Jacob, and A. C. Corse	Troy, N. Y.	Gridirons	Feb. 19, 1861.
257	Shaw, Clark	East Aurora, N. Y.	Window stop and fastener	Jan. 29, 1861.
103	Shaw, Charles A.	Biddeford, Me.	Work-holder (Design)	Aug. 13, 1861.
104	Shaw, C. A., and J. R. Clark	Biddeford, Me.	Sewing machines (Design)	Aug. 13, 1861.
	Shaw, F. B., <i>et al.</i> (See Osgood & Shaw.)			
1003	Shaw, Henry L.	Milan, Ohio	Sewing machines	April 9, 1861.
2795	Shaw, Philander	Boston, Mass.	Hot-air engines	Nov. 26, 1861.
71	Shaw, Philander	Boston, Mass.	Air engines (Reissue)	April 23, 1861.
2439	Shaw, Philander	Hartford, Conn.	Utilizing the exhaust of calorific engines	Oct. 8, 1861.
1451	Shaw, Philander, assignor to self and E. Townsend	Boston, Mass.	Hot-air engines	May 23, 1861.
3028	Shaw, Thomas, assignor to self and B. Hart	Hartford, Conn.	Revolving fire-arms	Dec. 24, 1861.
2562	Shaw, William	Hudson, N. Y.	Supporting and locking window sashes	Nov. 5, 1861.
2960	Shaw, William A.	Boston, Mass.	Bottle-stopper	Dec. 17, 1861.
627	Shearer, Peter	Reading, Pa.	Apparatus for generating power	Mar. 5, 1861.
9211	Shearer, Peter	Reading, Pa.	Air or gas engines	Sept. 3, 1861.
561	Shedd, William F.	Ripley, Ohio	Ploughs	Feb. 26, 1861.
327	Sheehan, Thomas, assignor to self, C. D. Smith, and C. B. Moss	Dunkirk, N. Y.	Manufacture of files and rasps	Feb. 5, 1861.
2450	Sheets, Daniel, and John B. Pressey	Buffalo, N. Y.	Fastening of the handles of mining picks	Oct. 8, 1861.
479	Sheldon, P. B.	Prattsburg, N. Y.	Roll blotters	Feb. 19, 1861.
1650	Sheldon, Wm. F.	East Mendon	Melodeons	June 25, 1861.
1146	Shepard, E. T.	Gallipolis, Ohio	Washing machine	April 23, 1861.
480	Shepard, Josiah	Columbia, Texas	Cotton scrapers	Feb. 19, 1861.
1651	Shepard, M. A.	Bridgeport, Conn.	Water elevators	June 25, 1861.
	Shepard, Stimpson, Waters & Keene. (See Jenkins, J., assignor.)			
1147	Shepherd, Calvin	Chenango, N. Y.	Water elevators	April 23, 1861.
	Sheppard, Wm., <i>et al.</i> (See Martin, George W., assignor.)			
	Sheppard, Wm., <i>et al.</i> (See Martin, George W., assignor.)			
2161	Sherman, Josiah J.	Albany, N. Y.	Balloons	Aug. 27, 1861.
2102	Sherman, S. M.	Fort Dodge, Iowa	Broom	Aug. 20, 1861.
2006	Sherman, S. M.	Fort Dodge, Iowa	Basket	Aug. 6, 1861.
2365	Sherwin, William	Shelburne Falls, Mass.	Husking pins	Sept. 24, 1861.
2752	Sherwin, W. G., James McFarland, and Charles Thieme	Cincinnati, Ohio	Breech-loading ordnance	Nov. 19, 1861.
	Sherwood, C. W., and J. Sperry. (See Sperry & Sherwood.)			
1787	Sherwood, Daniel	Lowell, Mass.	Coffee strainer	July 9, 1861.
1311	Sherwood, J. P.	Fort Edward, N. Y.	Sewing machines	May 14, 1861.
1232	Shinn, John, assignor to self and Barton H. Jenks	Leverington, Pa.	Looms	April 30, 1861.
2317	Shinn, John, assignor to self and Wm. Adamson	Leverington, Pa.	Clutch pulley	Sept. 17, 1861.
2794	Shipman, J. W.	Springfield, N. Y.	Pressers for hops, hay, &c.	Nov. 26, 1861.
	Shirk & Co., <i>et al.</i> (See Vedder, N. S., assignor.)			
1652	Shirley, Daniel H.	Boston, Mass.	Skates (Design)	June 25, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2494	Shivers, Charles, and Stephen Ustick	Philadelphia, Pa.	Linings for chimneys	Oct. 15, 1861.
36	Shlarbaum, Hermann	New York, N. Y.	Aquariums	Jan. 1, 1861.
628	Shlarbaum, Hermann	New York, N. Y.	Water-gauges for steam boilers	Mar. 5, 1861.
2604	Shoemaker, Samuel	Smithville, Ohio	Lifting jacks	Oct. 29, 1861.
1923	Sholl, Christian	Mount Joy, Pa.	Butt hinges	July 30, 1861.
1721	Shores, S. Z.	Towanda, Pa.	Hand corn-planters	July 2, 1861.
2464	Short, Joseph, 2d, assignor to Peter W. Neefus and Henry R. Conklin.	New York, N. Y.	Overcoat and tent knapsack	Oct. 8, 1861.
2722	Short, Joseph, assignor to Charles Short	New York, N. Y.	Knapsack	Nov. 19, 1861.
278	Short, Levi, assignor to self and Charles S. Pierce	Buffalo, N. Y.	Vapor lamps	Jan. 29, 1861.
1004	Short, William H.	Brooklyn, N. Y.	Inlet for sewers	April 9, 1861.
4797	Shotwell, John H.	Rahway, N. J.	Air-heating apparatus for engine furnaces	Nov. 26, 1861.
1433	{ Shotwell, S. L., and S. R. Hicks }	{ Ottawa, Ill. North Hempstead, N. Y. }	Steam ploughs	
629	Schultz, S. B.	Princeton, Ill.	Shop bin, or substitute for drawers	Mar. 5, 1861.
2753	Shute, Aaron	Flushing, N. Y.	Fire-escapes	Nov. 19, 1861.
1312	Sibert, Lorenzo, assignor to self and John McCue	Mount Solon, Va.	Magazine fire-arm	May 14, 1861.
1	Sickels, Frederick E.	New York, N. Y.	Steam-engines. (Reissue.)	Jan. 1, 1861.
2	Sickels, Frederick E.	New York, N. Y.	Steam-engines. (Division of reissue.)	Jan. 1, 1861.
7	Sickels, Frederick E.	New York, N. Y.	Method of opening and closing the valves of steam-engines. (Reissue.)	Jan. 1, 1861.
8	Sickels, Frederick E.	New York, N. Y.	Method of opening and closing the valves of steam-engines. (Division of reissue.)	Jan. 1, 1861.
2798	Sidle, Henry	Dillsburg, Ill.	Churns	Nov. 26, 1861.
	Sierer, Henry, <i>et al.</i> (See Sullenberger, W. H., assignor.)			
	Sigourney, Joseph. (See Wright, Julius, assignor.)			
	Sill, Calvin S. (See Tucker, Sidney D., assignor.)			
	Silliman, Huntley & Bowman. (See Landon, Fred., ass'r.)			
1896	Silverthorn, Newman	Prescott, Wisconsin	Stoves	July 23, 1861.
675	Simmons, Jonathan P.	Fulton, N. Y.	Packing for barometers	Mar. 12, 1861.
	Simms & Hule. (See Tarpley, C. S., deceased.)			
	Simon, Edward, and Oscar Falke. (See Falke & Simon.)			
1897	Simon, Frederick	New York, N. Y.	Methods of giving smooth surfaces to hard rubber in the moulds.	July 23, 1861.
481	Simonds, Jehial H.	New York, N. Y.	Hot-air register	Feb. 19, 1861.
744	Simonds, J. H.	New York, N. Y.	Hot-air register	Mar. 19, 1861.
	Simonds, N. G. (See Weight, Enoch, assignor.)			
1788	Sims, John	Boston Corners, N. Y.	Seed drills	July 9, 1861.
	Singer <i>et al.</i> (See Johnson & Bartlett, assignors.)			
	Sisson, A. C. (See Griswold, George W., assignor.)			
2366	Sisson, William	Fulton, N. Y.	Stave machines	Sept. 24, 1861.
	Sisson, S. A., and A. Stoler. (See Stoler & Sisson.)			
2754	Skillings, David N., assignor to self and D. B. Flint.	Boston, Mass.	Portable houses	Nov. 19, 1861.
328	Slaight, Thomas	Newark, N. J.	Lock for railway cars	Feb. 5, 1861.
2711	Slaight, Thomas	Newark, N. J.	Padlock	Nov. 12, 1861.

258	Slawson, J. B.	New Orleans, La.	Fare boxes	Jan. 29, 1861.
	Slicer, Charles H. (See Adams, Thomas W., assignor.)			
1789	Sloat, Henry R.	Sloatsburg, N. Y.	Farm gates	July 9, 1861.
1533	Slocum, E. F.	Chicago, Ill.	Lamps	June 11, 1861.
	Smethurst, Joseph. (See Campbell, Chas. F., assignor.)			
	Smith, A. (See Allan, R., assignor.)			
3012	Smith, Anthony, assignor to self and Wm. H. Bradley.	Hartford, Conn.	Revolving fire-arms	Dec. 24, 1861.
	Smith, A. B., and John Ramsay. (See Ramsay & Smith.)			
1313	Smith, A. B.	Clinton, Pa.	Raking attachment to harvesters	May 14, 1861.
88	Smith, Alfred E.	Bronxville, N. Y.	Railroad car axles	Jan. 8, 1861.
	Smith, A. H., and Silas Barker. (See Barker & Smith.)			
2475	Smith, A. J.	Decorah, Iowa	Bee hives	Oct. 15, 1861.
1790	Smith, Barzillai C.	Burlington, N. J.	Railways	July 9, 1861.
105	Smith, Bernard	Cincinnati, Ohio	Burial case	Aug. 27, 1861.
	Smith & Browner. (See Townsend, E. C., assignor.)			
89	Smith, B. C.	Philadelphia, Pa.	Mode of constructing iron pavements	Jan. 8, 1861.
127	Smith, B. C.	Burlington, N. J.	Pavement and railway combined	Jan. 15, 1861.
2400	Smith, B. C.	Burlington N. J.	Railroad coupling chairs	Oct. 1, 1861.
	Smith, C. D., et al. (See Sheehan, Thomas, assignor.)			
2862	Smith, David F., by administrator, Joseph B. Clark, assignor to Aaron W. Smith.	Manchester, N. H.	Fliers	Dec. 3, 1861.
	Smith, D. M., et al. (See Mason, A. C., assignor.)			
745	Smith, Daniel W.	Dooly county, Ga.	Ploughs	Mar. 19, 1861.
2605	Smith, Dryden	Biddeford, Maine	Self-adjusting uterine supporters	Oct. 23, 1861.
2263	Smith, Edward, and Sidney Cowles	Northford, Conn.	Horse rakes	Sept. 10, 1861.
1083	Smith, Edwin	Naugatuck, Conn.	Suspender buttons	April 16, 1861.
1534	Smith, Erastus W.	New York, N. Y.	Steam-engines	June 11, 1861.
562	Smith, Francis H.	Baltimore, Md.	Drying tunnel	Feb. 26, 1861.
	Smith, Francis and Wells. (See Scyces & Smith, ass'rs)			
	Smith, Francis and Wells. (See Sailor, S. H., assignor.)			
	Smith, Francis and Wells. (See Sailor, S. H., assignor.)			
55	Smith, Garretson, and Henry Brown, assignors to Leibbrandt & McDowell.	Philadelphia, Pa.	Cooking stove	(Design) May 14, 1861.
65	Smith, Garretson, and H. Brown, assignors to Cox, Whitman & Cox.	Philadelphia, Pa.	Stove	(Design) May 28, 1861.
88	Smith, Garretson, and H. Brown, assignors to North, Chase & North.	Philadelphia, Pa.	Iron doors	(Design) July 16, 1861.
1535	Smith, George	New York, N. Y.	Combined burglar alarm and animal trap	June 11, 1861.
1898	Smith, George	New York, N. Y.	Knife cleaner	July 23, 1861.
1666	Smith, George H., assignor to S. O. Smith	Rochester, N. Y.	Gas regulators	June 25, 1861.
134	Smith, James S.	New York, N. Y.	Epaulets	(Reissue) Nov. 26, 1861.
260	Smith, Justus S.	Lowell, Mass.	Bed bottom	Jan. 29, 1861.
482	Smith J. Bartlett	Winfield, N. Y.	Harvesters	Feb. 19, 1861.
259	Smith, John C.	Troy, N. Y.	Sewing machines	Jan. 29, 1861.
329	Smith, John Jos. Chas.	Philadelphia, Pa.	Machine for cutting type	Feb. 5, 1861.
330	Smith, Josiah M.	Somers, N. Y.	Sewing machines	Feb. 5, 1861.
676	Smith, James S.	Brooklyn, N. Y.	Cartridge boxes	Mar. 12, 1861.
61	Smith, Jonathan	Tiffin, Ohio	Seed drills	(Reissue) April 2, 1861.
	Smith, J. C., and Joel Haag. (See Haag & Smith.)			
1148	Smith, John E.	Waterbury, Conn.	Buckles	April 23, 1861.
1149	Smith, John K.	Trenton, N. J.	Steam ploughs	April 23, 1861.
1584	Smith, James S.	New York, N. Y.	Officers' shoulder straps	June 18, 1861.
1380	Smith, John W.	Lowa Point, Kansas	Chair for disseminating medicated vapors	May 21, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2103	Smith, John J.	Elizabeth, N. J.	Method of operating dampers in steam-heating apparatus	Aug. 20, 1861.
2265	Smith, J. E.	Poughkeepsie, N. Y.	Electro-magnetic telegraph	Sept. 10, 1861.
2367	Smith, J. Homer	Brewster's Station, N. Y.	Gun locks	Sept. 24, 1861.
	Smith, Kyse. (See Briggs, Joseph W., assignor.)			
	Smith, L. H., et al. (See Rice, Quartus, assignor.)			
407	Smith, Louis H.	Salem, N. J.	Sewing machines	Feb. 12, 1861.
1381	Smith, Louis H.	Salem, N. J.	Sewing machines	May 21, 1861.
2051	Smith, Lyman, and R. French.	North East, Pa. Keokuk, Iowa	Apparatus to form soap into balls.	Aug. 13, 1861.
2401	Smith, Matthew	Pittsburg, Pa.	Machines for crushing and pulverizing vegetable and mineral matter.	Oct. 1, 1861.
261	Smith, Pliny F.	New York, N. Y.	Neck ties.	Jan. 29, 1861.
1496	Smith, Russell, assignor to Sidney S. Wheeler.	Danbury, Conn.	Machines for felting hat bodies.	June 4, 1861.
1084	Smith, Samuel J.	New York, N. Y.	Eyelet machines	April 16, 1861.
	Smith, Samuel F., et al. (See Coppage, Francis C., ass'r.)			
	Smith, S., and Daniel M. Scypes. (See Scypes & Smith, assignors.)			
	Smith, S., and Daniel M. Scypes. (See Scypes & Smith, assignors.)			
128	Smith, W. H.	Wyand, Ill.	Cultivators	Jan. 15, 1861.
331	Smith, William	Philadelphia, Pa.	Valves of steam-engines.	Feb. 5, 1861.
2903	Smith, Wilson H.	Birmingham, Conn.	Breech-loading fire-arms	Dec. 10, 1861.
	Smi h, Wm. H., and Chas. R. Gorgas. (See Gorgas & Smith.)			
483	Smoot, William H., assignor to self, F. Taylor, C. A. Nelson, and M. Cornell.	Prince William county, Va.	Method of making wooden vessels of staves	Feb. 19, 1861.
2264	Snell, Jasper, and John R. Deihm.	Pottsville, Pa.	Coal screens	Sept. 10, 1861.
827	Snell, Minard	Medina, N. Y.	Stave machine	Mar. 26, 1861.
262	Snider, G. B., and James Gorton	Yorkville, N. Y.	Stove lining	Jan. 29, 1861.
484	Snow, William W.	Jersey City, N. J.	Car wheels	Feb. 19, 1861.
1150	Snow, William W.	Jersey City, N. J.	Tires for locomotive wheels	April 23, 1861.
	Snyder, Mason & Zwicki. (See Zwicki, C., assignor.)			
1085	Snyder, M. D. and S. A.	Clarendon, N. Y.	Carpet fastener	April 16, 1861.
746	Solis, Richard	New Brunswick, N. J.	Fastening for gaiter shoes	Mar. 19, 1861.
828	Solis, Richard	New Brunswick, N. J.	Machinery for making elastic shirred goods	Mar. 26, 1861.
1005	Somes, D. E.	Biddeford, Me.	Methods of preserving meat	April 9, 1861.
1791	Soule, Charles R.	Fairfield, Vt.	Hay rakes	July 9, 1861.
1205	Soule, George W.	Freeport, Me.	Rigging clasp	April 30, 1861.
1720	Southard, Thomas J.	Richmond, Me.	Pumps	July 2, 1861.
1792	Southworth, Levi B.	Deep River, Conn.	Teeth of saws	July 9, 1861.
1899	Spaulding, Charles F.	St. Johnsbury, Vt.	Milk pan	July 23, 1861.
1086	Spaulding, Ezariah.	Morrisville, Vt.	Clothes wringer	April 16, 1861.
	Spaulding, I. D., and Wm. P. Hunt. (See Hunt & Spaulding.)			
3038	Spaulding, N. W.	San Francisco, Cal.	Saw gummers	Dec. 24, 1861.
2266	Spaulding, Nathan W.	Sacramento City, Cal.	Saws	Sept. 10, 1861.
485	Spear, James	Philadelphia, Pa.	Cooking stoves and ranges	Feb. 19, 1861.

1924	Spear, James	Philadelphia, Pa	Fire-board stoves	July 30, 1861.
1006	Speer, James A., Jr., assignor to Wm. J. Kane	Manchester, Pa	Cultivators	April 9, 1861.
2104	Speer, L. M.	Belle Vernon, Pa	Machine for washing sand	Aug. 20, 1861.
1925	Spellerberg, Anton	Philadelphia, Pa	Breech-loading fire-arms	July 30, 1861.
	Sperry, E. W. (See Stever, Jeremiah, assignor. Reissue.)			
	Sperry, E. W., et al. (See Randall, D. F., assignor.)			
909	Sperry, John, and C. W. Sherwood	New York, N. Y	Machine for enamelling picture frames	April 2, 1861.
563	Spooner, H. W.	Erie, Pa	Tubes of artesian wells	Feb. 26, 1861.
677	Sprague, David	Elizabethport, N. J	Punching machine	Mar. 12, 1861.
212	Sprague, Joseph W., assignor to self, George B. Redfield, trustee (for the benefit of C. Gates,) James Jones, and Aaron Tyrell.	Rochester, N. Y	Fire-escapes	Jan. 22, 1861.
	Sprague, L. A., and R. A. Goodyear. (See Goodyear & Sprague.)			
2017	Sprague, Welcome, assignor to self, Daniel E. Barker, and Wm. Van Duzer.	Farnham, N. Y	Reaping machines	Aug. 6, 1861.
	Spring, Marshall, and S. B. Conover. (See Conover & Spring.)			
	Staats, J. A., and S. A. Park. (See Park & Staats.)			
	Stacey, William, and E. P. Thoonburgh. (See Fitts, R. B., assignor.)			
	Stachlen, W., and R. Boeklen. (See Boeklen & Staehlen.)			
	Stachlen, W., and R. Boeklen. (See Boeklen & Staehlen.)			
2212	Stachlen, William	Brooklyn, N. Y	Bird cages	Sept. 3, 1861.
129	Stafford, Daniel S.	Decatur, Ill.	Cultivators	Jan. 15, 1861.
332	Stafford, F. W.	New York, N. Y	Shade fixtures	Feb. 5, 1861.
748	Stafford, Ira A.	Essex, N. Y	Seeding machines	Mar. 19, 1861.
747	Stafford, M. B.	New York, N. Y	Stoves	Mar. 19, 1861.
749	Stamm, Frederick	Lancaster, Pa	Cultivators	Mar. 19, 1861.
408	Stanard, H. T.	Wayne, Mich.	Hanging and operating window sashes	Feb. 12, 1861.
1653	Stanard, Henry T.	Wayne, Mich.	Sash-holder	June 25, 1861.
35	Stanard, Walter W., assignor to Jewett & Root	Buffalo, N. Y	Parlor stoves (Design)	April 9, 1861.
34	Stanard, Walter W., assignor to Jewett & Root	Buffalo, N. Y	Stoves (Design)	April 9, 1861.
36	Stanard, Walter W., assignor to Jewett & Root	Buffalo, N. Y	Stoves (Design)	April 9, 1861.
486	Standish, P. H.	Pacheco, Cal.	Harvesters	Feb. 19, 1861.
2105	Standish, P. H.	Santa Clara, Cal.	Threshing machines	Aug. 20, 1861.
1917	Stanhope, Hiram	Philadelphia, Pa	Breech-loading ordnance	July 23, 1861.
2122	Stanhard, Monroe, assignor to Pratt, Whitney & Co.	New Britain, Conn	Rotary pumps	Aug. 20, 1861.
	Stapleton, W. H., et al. (See Preston, F. B., assignor.)			
1207	Starrett, David J.	Thomaston, Maine	Coal sifter	April 30, 1861.
3013	Stauf, C., and C. J. Steinbach	St. Louis, Mo.	Portable or platoon gun battery	Dec. 24, 1861.
1485	Stearns, L. M.	Cardiff, N. Y	Ploughs	June 4, 1861.
	Stebbins, E. S., and A. A. Goodspeed. (See Goodspeed, Isaac, assignor.)			
1793	Stebbins, Erastus	Chicopee, Mass	Faucets	July 9, 1861.
2606	Stebbins, Lucius	New York, N. Y	Iron pavements	Oct. 29, 1861.
2267	Stedman, Jarvis H.	Randolph, Vt.	Clothes wringer	Sept. 10, 1861.
	Steer, James T., et al. (See Schaffer, G. F., assignor.)			
	Steinbach, C. J., and C. Stauf. (See Stauf & Steinbach.)			
2712	Steinberg, David	San Francisco, Cal	Mode of setting artificial teeth	Nov. 12, 1861.
	Steiner, F., and R. Goldenblum. (See Goldenblum & Steiner.)			
487	Steinhauser, Frank J.	Lancaster, Pa	Snow ploughs	Feb. 19, 1861.
1382	Steinway, Henry, jr.	New York, N. Y	Piano-forte action	May 21, 1861.
1383	Steinway, Henry, jr.	New York, N. Y	Piano-forte action	May 21, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
333	Stelfox, Wm., and S. M. Cain. (See Cain & Stelfox.) Stephan, Peter Paul..... Stephenson, S., and C. H. Shank. (See Shank & Stephenson.) Stephenson, Thomas, and G. A. Prince. (See Woodbury, Hiram, assignor.)	Newark, N. J.....	Lock attachment.....	Feb. 5, 1861.
1585	Stevens, A. J.....	Aurora, Ill.....	Slide valve for steam-engines.....	June 18, 1861.
354	Stevens, Edgar M., assignor to self and Levi L. Tower.....	Boston, Mass.....	Machines for winding thread.....	Feb. 5, 1861.
2018	Stevens, E. M., assignor to Wm. N. Ely..... Stevens, Edgar M., and Francis J. Vittum. (See Vittum & Stevens.)	Medford, Mass.....	Hand-pegging machines.....	Aug. 6, 1861.
630	Stevens, Elbridge G.....	Biddeford, Me.....	Enema syringes.....	Mar. 5, 1861.
2854	Stevens, Francis B.....	Weehawken, N. J.....	Cut-off.....	Dec. 3, 1861.
2851	Stevens, Francis B.....	Weehawken, N. J.....	Cut-off valve motion.....	Dec. 3, 1861.
2852	Stevens, Francis B.....	Weehawken, N. J.....	Condensers for steam-engines.....	Dec. 3, 1861.
2853	Stevens, Francis B.....	Weehawken, N. J.....	Condensers for steam-engines.....	Dec. 3, 1861.
334	Stevens, J. V.....	Pomeroy, Ohio.....	Churn.....	Feb. 5, 1861.
829	Stevens, John & Francis.....	New York, N. Y.....	Heumers and folders.....	Mar. 26, 1861.
1161	Stevens, Joseph, assignor to self and H. M. Currier.....	Lowell, Mass.....	Spring bed bottom.....	April 23, 1861.
1434	Stevens, Jno., and Luther H. Buell..... Stevens, L., and A. Wyckoff. (See Wyckoff & Stevens.)	New York, N. Y.....	Washing machine.....	May 28, 1861.
1913	Stevens, Wm. J., assignor to self and Nathan W. Condict, jr. Stever, Jeremiah, assignor by <i>mesne</i> assignments to Jas. H. Ashmead, E. Huribut, E. W. Sperry, S. S. Rogers, and Green Kendrick.	New York, N. Y..... Bristol, Conn.....	Means of operating valves of steam-engines..... Machines for burnishing metals..... (Reissue)...	July 23, 1861. July 2, 1861.
1007	Stewart, David.....	Annapolis, Md.....	Coffee pots.....	April 9, 1861.
2799	Stewart, Joseph.....	San Francisco, Cal.....	Manœuvring heavy guns.....	Nov. 26, 1861.
488	Stewart, William.....	Philadelphia, Pa.....	Mills.....	Feb. 19, 1861.
9623	Stickney, Ancil, assignor to self and Wm. H. Hovey.....	Concord, N. H.....	Corn-shellers.....	Oct. 29, 1861.
1808	Stiles, A. C., assignor to self and A. Ewbanks.....	Bunker Hill, Wis.....	Sowing machines.....	July 9, 1861.
2309	Stillwell, E. B.....	Dayton, Ohio.....	Machines for shaping lasts.....	Sept. 17, 1861.
2691	Stillman, Wm. J.....	Newburyport, Mass.....	Rifle sights.....	Nov. 12, 1861.
1384	Stillwell, John.....	Griffin, Ga.....	Churn.....	May 21, 1861.
2544	Stillwell, Melancthon..... Stimpson, Waters, Sheperd & Keene. (See Jenkins, J., assignor.)	Manlius, N. Y.....	Bee hives.....	Oct. 22, 1861.
409	Stinets, C. P. (See Hall, E. J., assignor.)			
293	Stewart, V.....	Albany, Mich.....	Churn.....	Feb. 12, 1861.
1452	St. John, Sol. C.....	Edmeston, N. Y.....	Locks.....	
2496	Stoakes, James W., assignor to self and J. N. Boyland.....	Milan, Ohio.....	Sewing machines.....	May 28, 1861.
1162	Stock, John & Jakob.....	New York, N. Y.....	Boxes for dry photographic plates.....	Oct. 15, 1861.
410	Stoddard, F. S., assignor to Edward Coe.....	Litchfield, Conn.....	Spinning frames.....	April 23, 1861.
2019	Stoddard, J. C.....	Worcester, Mass.....	Rake-heads.....	Feb. 12, 1861.
1794	Stoddard, J. C., assignor to self and W. A. Hacker.....	Worcester, Mass.....	Hand hay rakes.....	Aug. 6, 1861.
2962	Stodard, Wm. O.....	Champaign, Ill.....	Printers' chase.....	July 9, 1861.
	Stoler, A., and S. A. Sisson.....	Bristol, Pa.....	Cutting apparatus for harvesters.....	Dec. 17, 1861.

1585	Stone, Amasa	Philadelphia, Pa.	Apparatus for inserting stoppers in bottles.	June 18, 1861.
830	Stone, Horace A.	Battle Creek, Mich.	Pressing cheese	Mar. 26, 1861.
	Stone, James M. (See Adams, George B., assignor.)			
1087	Stone, J., and J. T. Archibald	Wapello, Iowa	Corn planters	April 16, 1861.
564	Stone, L. R.	Owassa, Mich.	Machines for raking and cocking hay	Feb. 23, 1861.
1314	Stoner, Henry K.	Lancaster, Pa.	Seeding machines	May 14, 1861.
1008	Storer, Jacob I.	Philadelphia, Pa.	Desulphurizing coal and ores.	April 9, 1861.
2607	Storm, Wm. Mont.	New York, N. Y.	Skin cartridges.	Oct. 29, 1861.
411	Story, Ephraim J.	Getzville, N. Y.	Truss bridges	Feb. 12, 1861.
1088	Stout, Isaac	Fremont, Ill.	Cultivators	April 16, 1861.
565	Stover, Henry D.	New York, N. Y.	Package case. (Antedated August 26, 1860)	Feb. 26, 1861.
85	Stover, Henry D.	New York, N. Y.	Wood planing machines. (Reissue)	May 21, 1861.
1900	Stover, Henry D.	New York, N. Y.	Planing machines.	July 23, 1861.
	Stow, F. R., et al. (See Lape, William, assignor.)			
1315	Strayer, Jacob.	Miamisburg, Ohio	Seed drills.	May 14, 1861.
2545	Streubel, F., and August Roos	New York, N. Y.	Coolers for beer and other liquids	Oct. 22, 1861.
679	Strieby, William.	Wagontown, Pa.	Cultivators	Mar. 12, 1861.
130	Stringfellow, C. C., and D. W. Surlis.	Lumpkin, Ga.	Mode of hanging carriage bodies.	Jan. 15, 1861.
	Strong, Estabrook & Luce. (See Luce, C. O., assignor.)			
	Strong, F. D., and W. H. Nichols. (See Nichols & Strong.)			
	Strong, G. W., and Frederick W. Krause. (See Krause & Strong.)			
2800	Strong, James A.	Hyde Park, Vt.	Self-waiting table	Nov. 26, 1861.
1722	Strong, Timothy F.	Fond du Lac, Wis.	Apparatus for heating and ventilating railroad cars.	July 2, 1861.
1532	Strong, W. B.	New York, N. Y.	Trunk convertible into bedstead	June 11, 1861.
	Strong, W. H., et al. (See Weaver, H. B., assignor.)			
1536	Stroh, Abraham	Port Jervis, N. Y.	Car coupling.	June 11, 1861.
1723	Strout, Cyrus W.	Calais, Me.	Machine for mortising blind slats.	July 2, 1861.
2653	Strout, Cyrus W.	Calais, Me.	Machines for dovetailing window sashes	Nov. 5, 1861.
1385	Stuart, James L.	New York, N. Y.	Vessels' fire-extinguishing apparatus.	May 21, 1861.
	Stuart & Peterson. (See Horton & Martino, assignors.)			
	Stuart & Peterson. (See Horton & Martino, assignors.)			
	Stuart & Peterson. (See Horton & Martino, assignors.)			
2713	Stuart, Silas.	Sterling Centre, Mass. (Design)	
631	Stuart, U. T., and C. E. Stewart	Fayette county, Tenn.	Steam boilers	Nov. 12, 1861.
	Stubbs, W. Hermann. (See Rouillion, O. A. A., assignor.)		Straw cutters.	March 5, 1861.
2106	Stubbs, Robert S.	Claremont, N. H.	Apparatus for working ships' boats	Aug. 20, 1861.
1151	Stuber, Jacob, and F. Frank	Utica, N. Y.	Lamps	April 23, 1861.
	Sturgess, W. B., and S. S. Fairchild. (See Fairchild & Sturgess.)			
1537	Sturtevant, S. C.	Cleveland, Ohio	Tubular grates for steam boilers	June 11, 1861.
764	Sullonberger, W. H., assignor to self, Henry Sierer, and John Tolbert.	Chambersburg, Pa.	Method of hanging handsaws	Mar. 19, 1861.
	Sumner, E. R., and H. Ornisby. (See Ornisby & Sumner.)			
489	Supplee, Jonathan R.	Bridgeport, Pa.	Radiators	Feb. 19, 1861.
	Surles, D. W., et al. (See Stringfellow & Surles.)			
1208	Swadkins, Alfred	South Boston, Mass.	Steam cock	April 30, 1861.
2007	Sweeney, John	Chicago, Ill.	Auxiliary apparatus for increasing the draught of the furnaces of locomotive engines.	Aug. 6, 1861.
189	Sweeney, Oliver.	Norwich, Conn.	Knife cleaner	Jan. 22, 1861.
1795	Sweeney, S., and S. Parks	Rome, N. Y.	Double seaming sheet metal.	July 9, 1861.
2608	Sweet, B. F.	Fond du Lac, Wis.	Car couplings	Oct. 29, 1861.
3	Sweetland, Geo., assignor to Henry Kinay, Grant, Warren & Co., and Joseph Jordan, jr.	New Haven, Conn.	Pulp machines. (Reissue)	Jan. 1, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
190	Sweitzer, Jeremiah.....	Mishawaka, Ind.....	Ploughs.....	Jan. 22, 1861.
1209	Sweet, James H.....	Pittsburg, Pa.....	Spike machine.....	April 30, 1861.
	Swift, F., and S. M. Wirtz. (See Wirtz & Swift.)			
1796	Swift, N. G.....	Hart's Village, N. Y.....	Machines for sowing pulverized manure.....	July 9, 1861.
	Swigert, J. J., and M. F. Williamson. (See Williamson & Swigert.)			
	Sylvester, A. H., et al. (See Coffin, E. B., assignor.)			
2546	Taber, B. F.....	Buffalo, N. Y.....	Rotary pumps.....	Oct. 22, 1861.
63	Taber, John.....	Bangor, Maine.....	Attaching the shrouds of ships.....	Jan. 1, 1861.
831	Taft, T. F., assignor to self, A. P. Brown, and Wm. M. Page.	Worcester, Mass.....	Shear and punch.....	Mar. 26, 1861.
	Tait, A. H., and E. J. Kelley. (See Kelley & Tait.)			
2213	Talcott, Orlando.....	Chicago, Ill.....	Feeding paper to printing presses.....	Sept. 3, 1861.
	Taplin, Albert, and Geo. J. Huling. (See Huling & Taplin.)			
65	Tarpley, C. S., deceased, by E. W. Tarpley, executrix, and J. T. Simons and Isaac Hull, executors.	Jackson, Miss.....	Cotton cleaners.....	Jun. 1, 1861.
	Tatham, Wm. Penn. (See Fowler, John, jr., assignor.)			
	Tatham, Wm. Penn. (See Fowler, John, jr., assignor.)			
	Tatham, Wm. Penn. (See Fowler, John, jr., assignor.)			
	Tatham, Wm. Penn. (See Fowler & Worby, assignors.)			
	Tatham, Wm. Penn. (See Fowler, John, assignor.)			
	Tatham, Wm. Penn. (See Fowler, John, jr., et al., assignors.)			
1009	Taylor, Charles F.....	New York, N. Y.....	Apparatus for reducing spinal curvature.....	April 9, 1861.
1010	Taylor, Charles F.....	New York, N. Y.....	Apparatus for reducing spinal curvature.....	April 9, 1861.
1011	Taylor, Charles F.....	New York, N. Y.....	Apparatus for reducing spinal curvature.....	April 9, 1861.
750	Taylor, Clenson W.....		Alarm trunks.....	
	Taylor, F., et al. (See Smoote, Wm. H., assignor.)			
412	Taylor, J. W.....	Ashland, Va.....	Cultivators.....	Feb. 12, 1861.
2497	Taylor, J. L.....	New York, N. Y.....	Grooving machines.....	Oct. 15, 1861.
413	Taylor, O. C.....	East Burlington, Pa.....	Straw cutters.....	Feb. 12, 1861.
37	Taylor, Robert R.....	Reading, Pa.....	Steam hammer.....	Jan. 1, 1861.
832	Taylor, Robert.....	New York, N. Y.....	Canal lock gates.....	Mar. 26, 1861.
86	Taylor, Robert R.....	Reading, Pa.....	Steam hammer.....(Reissue).....	May 21, 1861.
490	Taylor, William.....	Berlin, N. Y.....	Guides for laying cord.....	Feb. 19, 1861.
	Taylor, W. A., and N. McGraw. (See McDuff, James, assignor.)			
	Taylor, William N. & Joseph H. (See Quann, William, assignor.)			
2107	Teckelburg, Charles.....	Philadelphia, Pa.....	Sugar cutting machine.....	Aug. 20, 1861.
1435	Teets, Philip.....	New York, N. Y.....	Milk can.....	May 28, 1861.
38	Terrell, John.....	Philadelphia, Pa.....	Knitting machines.....	Jan. 1, 1861.
118	Terry, Henry.....	Plymouth, Conn.....	Clock case front.....(Design).....	Oct. 22, 1861.
2664	Terry, Henry R.....	Edenboro', Pa.....	Bee hives.....	Nov. 5, 1861.
89	Terry, Nancy D.....	Providence, R. I.....	Bonnets.....(Design).....	July 16, 1861.
191	Teubner, Augustus C.....	New York, N. Y.....	Composition for rendering textile and other fabrics air and water tight.....	Jan. 22, 1861.

850	Thayer, Daniel H., assignor to self and Stephen A. Baker... Thieme, Charles, <i>et al.</i> (See Sherwin, McFarland & Thieme.)	Lansing, N. Y.	Cutting apparatus of harvesters.	Mar. 26, 1861.
2665	Thiemeyer, Herman F.	Baltimore, Md.	Railroad switch.	Nov. 5, 1861.
2666	Thiemeyer, Herman F.	Baltimore, Md.	Railroad crossings.	Nov. 5, 1861.
2609	Thirion, Henry	Miricourt, France.	Blast machine.	Oct. 29, 1861.
192	Thistle, H. L.	New York, N. Y.	Spring bed bottoms.	Jan. 22, 1861.
	Thomas, D., and Wm. Yondan. (See Yondan & Thomas.)			
491	Thomas, Enoch	Beverly, Va.	Presses.	Feb. 19, 1861.
1152	Thomas, Joseph	New York, N. Y.	Lamps.	April 23, 1861.
1902	Thomas, Joseph	New York, N. Y.	Lamps.	July 23, 1861.
2402	Thomas, Joseph	New York, N. Y.	Water metres.	Oct. 1, 1861.
1654	Thomas, Leopold	Allegheny, Pa.	Valves. (Antedated May 21, 1861.)	June 25, 1861.
2310	Thomas, P. W.	Levee, Ky.	Composition for tanning.	Sept. 17, 1861.
1012	Thomas, W. R., and M. Emanuel, jr.	Catauaqua, Pa.	Composition for blasting powder.	April 9, 1861.
	Thompson, E. W. (See Foster, Samuel L., assignor.)			
5	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet design. (A, design)	Feb. 12, 1861.
6	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (B, design)	Feb. 12, 1861.
7	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (C, design)	Feb. 12, 1861.
8	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (D, design)	Feb. 12, 1861.
9	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (E, design)	Feb. 12, 1861.
10	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (F, design)	Feb. 12, 1861.
11	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (G, design)	Feb. 12, 1861.
12	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (H, design)	Feb. 12, 1861.
13	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (I, design)	Feb. 12, 1861.
14	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (J, design)	Feb. 12, 1861.
15	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (K, design)	Feb. 12, 1861.
16	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (L, design)	Feb. 12, 1861.
17	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (M, design)	Feb. 12, 1861.
18	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (N, design)	Feb. 12, 1861.
19	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (O, design)	Feb. 12, 1861.
20	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Design for carpets. (P, design)	Feb. 12, 1861.
43	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
44	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
45	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
46	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
47	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
48	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
49	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
50	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
51	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
52	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
53	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet. (Design)	May 7, 1861.
124	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
125	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
126	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
127	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
128	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
129	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
130	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
131	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
132	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.
133	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns. (Design)	Nov. 19, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
134	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns (Design)	Nov. 19, 1861.
135	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns (Design)	Nov. 19, 1861.
136	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns (Design)	Nov. 19, 1861.
137	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns (Design)	Nov. 19, 1861.
138	Thompson, Henry G., assignor to Hartford Carpet Company.	New York, N. Y.	Carpet patterns (Design)	Nov. 19, 1861.
	Thompson, Jeremiah, and John A. Parlett. (See Parlett & Thompson.)			
	Thompson, John, et al. (See Warren, Sylvester W., ass'r.)			
2008	Thompson, John.	Clifton, N. Y.	Machine for boring wagon hubs	Aug. 6, 1861.
2610	Thompson, John A., and William Stacey. (See Pitts, R. B., assignor.)	Cayuga, N. Y.	Railroad car ventilators	Oct. 29, 1861.
90	Thornton, William McK.	Niles, Mich.	Machine for creasing and finishing leather straps	Jan. 8, 1861.
	Throp, John A., and John Cox. (See Cox & Throp.)			
	Thurber, G., J. Gorham, and L. Dexter, jr. (See Gorham, Thurber, & Dexter. Design.)			
	Thurber, G., J. Gorham, and L. Dexter, jr. (See Gorham, Thurber, & Dexter.)			
	Thurber, G., J. Gorham, and L. Dexter, jr. (See Gorham, Thurber, & Dexter.)			
	Tibballs, Vincent, Shirk & Co. (See Vedder, N. S., ass'r.)			
910	Tiberi, Joseph	St. Louis, Mo.	Fire grates	April 2, 1861.
833	Tice, Isaac P.	Baltimore, Md.	Machine for turning oval forms	Mar. 26, 1861.
2714	Tice, Isaac P.	New York, N. Y.	Projectile for rifled ordnance	Nov. 12, 1861.
577	Tiffany, George S., and H. C. Ingraham, assignors to George S. Tiffany.	Palmyra, Mich.	Tile machine	Feb. 26, 1861.
	Tiffany, Joseph C., and Garet S. Heermance.	Tecumseh, Mich.		
934	Tiffany, Joseph C., and Garet S. Heermance.	New York, N. Y.	Means of promoting combustion in the furnaces of steam boilers	April 2, 1861.
69	Tiffany, Joseph C.	Hudson, N. Y.	Means of promoting combustion in the furnaces of steam boilers. (Reissue)	April 16, 1851.
9904	Tilley, John	West Troy, N. Y.	Machines for chamfering barrels	Dec. 10, 1861.
1089	Tilliers, Louis	Mott Haven, N. Y.	Visc.	April 16, 1861.
2108	Tilliers, Louis	New York, N. Y.	Motive power	Aug. 20, 1861.
335	Tinker, J. B.	Plymouth, N. Y.	Harvesters	Feb. 5, 1861.
	Tisdale, George W., et al. (See Knapp, A. H., assignor.)			
	Tisdale, George W., et al. (See Knapp, A. H., assignor.)			
1316	Titterton, Charles	Rohampton, Eng.	Preparation of oxide of zinc for a paint. (Patented in England, November 4, 1856.)	May 14, 1861.
	Tobey, Samuel B. (See Greene, John F., assignor.)			
	Tobey, Samuel B. (See Greene, John F., assignor.)			
	Tolbert, John, et al. (See Sutenberger, W. H., assignor.)			
1210	Tolley, James M.	Big Lick, Va.	Washing machine	April 30, 1861.
834	Tompkins, Abram G.	New York, N. Y.	Screw propeller	Mar. 26, 1861.
	Tompkins, D. F., and Wm. M. Van Wageningen. (See Van Wageningen, Wm. M., assignor.)			

1436	Tomlinson, Joseph	Putnam, Iowa	Suspension bridges	May 28, 1861.
632	Toop, Charles E.	New York, N. Y.	Washing machine	Mar. 5, 1861.
2905	Toothill, John and William	Wallingford, Conn.	Portable cooking apparatus	Dec. 10, 1861.
492	Topham, W. H.	New Bedford, Mass.	Lamps	Feb. 19, 1861.
493	Topliff, J. M., and J. W. Graham. (See Graham & Topliff)	New York, N. Y.	Ice-cream freezers	Feb. 19, 1861.
494	Torrey, E. P.	Pittsburg, N. Y.	Method of hanging and securing reciprocating mill saws	Feb. 19, 1861.
	Totman, J. H.	Boston, Mass.	Trade-mark (Design)?	June 11, 1861.
67	Tower, Levi L., et al. (See Stevens, Edgar M., assignor.)	New York, N. Y.	Bootjack	June 4, 1861.
1486	Towers, William H.	New York, N. Y.	Broom handles	Oct. 15, 1861.
2498	Towers, William H., assignor to W. S. Bard	New York, N. Y.	Broom	Nov. 5, 1861.
2682	Towers, William H., assignor to Winfield S. Bard	Exeter, N. H.	Apparatus for ascertaining the curvatures of the keels or bottoms of vessels	April 23, 1861.
1153	Towle, Hamilton E.	Exeter, N. H.	Machine for drawing bolts and spikes	Sept. 3, 1861.
2214	Towle, Hamilton E.			
	Towle, R. W., and E. P. Barton. (See Barton & Towle.)			
	Town, Wm. J., et al. (See Magee, John, assignor.)			
	Townsend, E., et al. (See Shaw, Philander, assignor.)			
2762	Townsend E. C., assignor to Smith & Browner	New York, N. Y.	Neck ties	Nov. 19, 1861.
264	Townsend, Frederick	Albany, N. Y.	Breech-loading fire-arms	Jan. 29, 1861.
	Towsley, L. D., et al. (See Evans, O. C., assignor.)			
	Towsley, L. D. (See Matteson, Elisha, assignor.)			
265	Traber, A. Renaud	St. Martinsville, La.	Table fan	Jan. 29, 1861.
1538	Trageser, John	New York, N. Y.	Apparatus for evaporating liquids	June 11, 1861.
2963	Trageser, John	New York, N. Y.	Beer coolers	Dec. 17, 1861.
1090	Traxler, Franklin	Salem, Mich.	Ploughs	April 16, 1861.
266	Treadwell, John G.	Albany, N. Y.	Cooking stoves	Jan. 29, 1861.
1154	Treadwell, John G.	Albany, N. Y.	Coal scuttle	April 23, 1861.
1253	Treadwell, J. G., and Wm. Hailes	Albany, N. Y.	Stoves	May 7, 1861.
	Tredwell, Alfred M. (See Pell, Ogdin P., assignor.)			
1539	Trego, A. H.	Lambertville, N. J.	Car coupling	June 11, 1861.
1797	Trego, A. H.	Lambertville, N. J.	Apparatus for pulleying horses	July 9, 1861.
336	Tribby, Charles	Winchester, Va.	Watchmakers' lathes	Feb. 5, 1861.
835	Trimble, Mathew	Princeton, Ill.	Corn shellers	Mar. 26, 1861.
267	Trittin, Emil	Philadelphia, Pa.	Lamps	Jan. 29, 1861.
2855	Trittin, Emil	Philadelphia, Pa.	Lamps	Dec. 3, 1861.
	Trowbridge, J. H., and S. W. Cox. (See Cox & Trowbridge.)			
1091	Trowbridge, William P.	Washington, D. C.	Specimen cup for deep-sea sounding	April 16, 1861.
1667	Trowbridge, Wm. F., assignor to F. Brigham & Co.	Feltonville, Mass.	Machine for skiving boot and shoe soles	June 25, 1861.
2964	Truxal, O. M.	Mount Morris, N. Y.	Machine for sizing broom corn	Dec. 17, 1861.
	Truxal, Wm., and David Dougal. (See Dougal & Truxal.)			
112	Tucker, Hiram	Troy, N. Y.	Spring bed bottoms (Reissue.)	Nov. 26, 1861.
2813	Tucker, Sidney D., assignor to Calvin S. Sill.	Troy, N. Y.	Cording guides for sewing machines	Nov. 26, 1861.
	Tufts, A., and H. Curtis. (See Curtis & Tufts.)			
1437	Tufts, Otis	Boston, Mass.	Elevators	May 28, 1861.
2403	Tufts, Otis	Boston, Mass.	Railroad wheels and axles for running on different gauged tracks	Oct. 1, 1861.
			Gas retorts	July 9, 1861.
1798	Tupper, A. K.	Pontiac, Mich.	Gas retorts	Dec. 10, 1861.
2917	Tupper, A. K., assignor to self, Joseph E. Tupper, and Jno. W. Green.	Pontiac, Mich.		
751	Tupper, Horace	Buffalo, N. Y.	Fare boxes for railroad cars, &c	Mar. 19, 1861.
911	Turner, Alfred R.	Malden, Mass.	Apparatus for trimming wicks	April 2, 1861.
1013	Turner, G. B., and James A. Vaugh.	Cuyahoga Falls, Ohio	Grain separators	April 9, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1587	Turner, Greanleaf L	New York, N. Y	Car spring	June 18, 1861.
678	Turner, J. B	Jacksonville, Ill	Cultivators	Mar. 12, 1861.
2856	Turner, J. B	Jacksonville, Ill	Cultivators	Dec. 3, 1861.
2215	Turner, James	Chicago, Ill	Apparatus for rendering lard and tallow	Sept. 3, 1861.
2965	Turner, James	Chicago, Ill	Process of rendering lard and tallow	Dec. 17, 1861.
2404	Turner, R G., and S. B. Robinson	East Dedham, Mass	Machinery for washing wool	Oct. 1, 1861.
515	Turner, Wm., assignor to Joseph Y. Norton and J. Phillips		Lubricating compound	Feb. 19, 1861.
1814	Turrell, George B	St. Louis, Mo	Beer coolers	July 16, 1861.
2715	Tustin, John	Petaluma, Cal	Reaping machines	Nov. 12, 1861.
414	Tuttle, Ebenezer	Canaan, Me	Water wheels	Feb. 12, 1861.
1724	Tuttle, Edward A	Brooklyn, N. Y	Fireplace register	July 2, 1861.
130	Tuttle, Edward A	Brooklyn, N. Y	Registers and ventilators	Nov. 12, 1861.
2052	Twambly, Samuel G	Saco, Maine	Chucks for lathes	Aug. 13, 1861.
3014	Twining, Alexander C	New Haven, Conn	Apparatus for cooling and freezing	Dec. 24, 1861.
	Twombly, Alexander H. (See Chamberlain, D. H., ass'r.)			
337	Tyler, Levi S	Linesville, Pa	Rotary harrows	Feb. 5, 1861.
	Tyrell, Aaron W., et al. (See Sprague, Jos. W., assignor.)			
1487	Tyson, Isaac, jr	Baltimore, Md	Article of paint	June 4, 1861.
113	Uhlinger, William P	Philadelphia, Pa	School desk	Oct. 8, 1861.
	Underhill, Wm. Scott, and John and Henry Bruckshaw. (See Bruckshaw & Underhill.)			
1386	Upton, Benjamin	Elyria, Ohio	Upsetting fire	May 21, 1861.
338	Upton, James S	Battle Creek, Mich	Horse power	Feb. 5, 1861.
101	Upton, James S	Battle Creek, Mich	Horse power	July 2, 1861.
	Ustick, Steph., and Chas. Shivers. (See Shivers & Ustick.)			
415	Utley, Gabriel	Chapel Hill, N. C.	Ploughs	Mar. 12, 1861.
2170	Valance, J. W., and Hiram Littlejohn, assignors to Isaac W. and George W. Valance	Lansingburg, N. Y	Machine for riveting hinges	Aug. 27, 1861.
912	Valetton, Louis Dominique	New York, N. Y	Machines for making fringe	April 2, 1861.
1903	Van Allen, C. D	Syracuse, N. Y	Churns	July 23, 1861.
3015	Van Anden, Wm	Poughkeepsie, N. Y	Harvesters	Dec. 24, 1861.
2716	Van Brunt, G. W	Rolling Prairie, Wis	Seeding machines	Nov. 12, 1861.
2319	Van Camp, Gilbert, assignor to self and Jasper Berger	Somerset county, N. Y	Pumps	Sept. 17, 1861.
355	Vance, Samuel B. H., assignor to Mitchell, Vance & Co.	New York, N. Y	Electrical apparatus for lighting gas	Feb. 5, 1861.
318	Vance, Samuel B. H.	New York, N. Y	Electrical apparatus for lighting gas, (ad'l improvement.)	Mar. 12, 1861.
644	Vanderburgh, Geo. E., assignor to Liquid Quartz Co.	New York, N. Y	Silicated soaps	Mar. 5, 1861.
2456	Van Deventer, Nelson	New Albany, Ind	Excavators for water-courses having currents	Oct. 8, 1861.
2216	Van Dewater, Henry	Weedsport, N. Y	Water wheel	Sept. 3, 1861.
	Van Duzor, William, and Daniel E. Barker. (See Sprague, Welcome, assignor.)			
2109	Van Dyk, Solomon and Nicholas	St. Louis, Mo	Coffee roaster	Aug. 20, 1861.
	Van Gieson, W. H., and E. Brown. (See Brown & Van Gieson.)			
2611	Van Horn, Chester	Springfield, Mass	Mode of lowering piers into the water	Oct. 29, 1861.
91	Van Hoesen, Pierre D	New York, N. Y	Sadiron	Jan. 8, 1861.

2405	Van Høsen, P. D	New York, N. Y.	Wringing machines	Oct. 1, 1861.
1540	Van Name, C	Binghampton, N. Y.	Stanchion for canal boats	June 11, 1861.
2268	Van Order, Abram	Ithaca, N. Y.	Construction of canal boats	Sept. 10, 1861.
2269	Van Orman, O. O., assignor to self and H. F. Palmer	Harrisville, Ohio	Railroad car wheels	Sept. 10, 1861.
1725	Vantuyf, Andrew J.	Hector, N. Y.	Grain separators	July 2, 1861.
1103	Van Wageningen, William M., assignor to self and Daniel F. Tompkins.	Newark, N. J.	Boat-detaching apparatus	April 16, 1861.
1799	Vauclair, James L.	Lafayette, Ind.	Car axle box	July 9, 1861.
2053	Vauclair, James L.	Lafayette, Ind.	Locomotive fire boxes	Aug. 13, 1861.
2110	Vauclair, James L.	Lafayette, Ind.	Locomotive smoke-stacks	Aug. 20, 1861.
358	Vaughn, Ebenezer, by J. B. Vaughn, administrator	Marion, N. Y.	Gauges for constructing the mould-boards of ploughs	Feb. 5, 1861.
15	Vaughn, James A.	Cuyahoga Falls, Ohio.	Grain separators	(Reissue.) Jan. 8, 1861.
90	Vaughn, Jas. A., and G. B. Turner, (See Turner & Vaughn.)	Cuyahoga Falls, Ohio	Grain separators	(Reissue.) June 11, 1861.
91	Vaughn, James A.	Cuyahoga Falls, Ohio.	Grain separators	(Division of reissue.) June 11, 1861.
2547	Vautier, A. C.	Paris, France.	Mode of extracting filamentous matter similar to silk, cotton, and the like, from the bark and leaves of various trees.	Oct. 22, 1861.
913	Veber, William F.	Bowling Green, Ohio.	Cultivators	April 2, 1861.
24	Vedder, N. S., and E. Ripley, assignors to N. S. Vedder	Troy, N. Y.	Stoves	(Design.) Mar. 5, 1861.
23	Vedder, N. S.	Troy, N. Y.	Cooking stove	(Design.) Mar. 5, 1861.
32	Vedder, N. S., assignor to Ingraham & Phillips	Troy, N. Y.	Cooking stove	(Design.) April 2, 1861.
66	Vedder, N. S., assignor to Vincent, Tibballs, Shirk & Co.	Troy, N. Y.	Cook stoves	(Design.) May 28, 1861.
55	Voerkamp, F., and F. Leopold, assignors to R. A. Maxwell	Philadelphia, Pa.	Gymnastic apparatus	Jan. 1, 1861.
64	Vernam, John Sands	Rochester, N. Y.	Corrugating iron	Jan. 1, 1861.
1211	Viall, Daniel H.	Schaghticoke, N. Y.	Grain cradles	April 30, 1861.
1926	Vidal, Ulysses B.	Philadelphia, Pa.	Lamps	July 30, 1861.
	Viele, J. J., and James Pine. (See Pine, James, assignor.)			
	Viele, J. J., and James Pine. (See Pine, James, assignor.)			
	Viele, J. J. (See Pine, James, assignor.)			
	Vincent & Osborn. (See Mann, Robert J., assignor.)			
	Vincent, Tibballs, Shirk & Co. (See Vedder, N. S., ass'nr.)			
2548	Vincent, Wm. E., and Chauncey B. Northup.	New York, N. Y.	Spring rocking horses	(Design) Oct. 22, 1861.
1842	Virdin, William W.	Baltimore, Md.	Boat and ferry bridge	July 16, 1861.
2556	{ Vittum, Francis J., and Edgar M. Stevens, assignors to Alfred B. Ely.	Boston, Mass. Medford, Mass.	Breech-loading fire-arms	Oct. 22, 1861.
2717	Von Liebig, Justus.	Munich, Bavaria.	Electro-plating with copper and other metals the silvered surfaces of mirrors, and other articles for protecting the same. (Patented in Bavaria and England April 28, 1858.)	Nov. 12, 1861.
1014	Voorhis, Thos G., and Wm. B. Whiteman.	New York, N. Y.	Musquito net	April 9, 1861.
	Vosburgh, Jacob H., and John Warner. (See Warner & Vosburgh.)			
89	Vose, Richard	New York, N. Y.	Car springs	(Reissue.) June 4, 1861.
113	Vose, Richard	New York, N. Y.	Car springs	(Reissue.) Aug. 6, 1861.
41	Vose, William T.	Newtonville, Mass.	Portable pumps	Feb. 26, 1861.
1387	Vowles, Joseph	New Hudson, Mich.	Cultivators	May 21, 1861.
193	{ Vroom, G. B., and Sol. Kinzee.	Jersey City, N. J. Brooklyn, N. Y.	Machine for hoisting barrels and placing them in tiers or rows.	Jan. 22, 1861.
2567	Wadleigh, Thomas J.	Sutton, N. H.	Pumps	Nov. 5, 1861.
1927	Wadleigh, W., and N. F. Morrill.	Sanbornton Bridge, N. Y.	Machine for turning tapering forms	July 30, 1861.
856	Wadsworth, Arthur.	New York, N. Y.	Method of operating the second-hand in stop-watches	Mar. 25, 1861.
28	Wagener, David S.	Penn Yan, N. Y.	Threshing machines	(Reissue.) Jan. 29, 1861.
31	Wagener, David S.	Penn Yan, N. Y.	Flouring mills	(Reissue.) Feb. 5, 1861.
416	Wagener, David S.	Penn Yan, N. Y.	Machines for hulling and cleaning clover-seed	Feb. 12, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
1254	Wagner, Samuel.....	York, Pa.....	Artificial honey-comb.....	May 7, 1861.
1155	Waite, Daniel B.....	Providence, R. I.....	Making watch and locket rims.....	April 23, 1861.
1901	Waite, Daniel B.....	Providence, R. I.....	Making watch and locket rims.....	July 23, 1861.
837	Wakefield, Cyrus. (See Mayall, Thos. J., assignor.)	Port Deposit, Md.....	Presses.....	Mar. 26, 1861.
9270	Wakeman, Boswell.....	Malone, N. Y.....	Cut-off apparatus for steam-engines.....	Sept. 10, 1861.
2111	Walbridge, A. S.....	New York, N. Y.....	Sink.....	Aug. 20, 1861.
356	Walcott, H. S., assignor to Samuel Eter.....	East Boston, Mass.....	Carpet tack driver.....	Feb. 5, 1861.
1255	Walker, E. C. R., and F. Huckins. (See Huckins & Walker.)	Waterford, Pa.....	Bee hives.....	May 7, 1861.
680	Walker, F. R.....	Annville, Pa.....	Ploughs.....	Mar. 12, 1861.
633	Walker, George R.....	Washington, D. O.....	Corn-buskers.....	Mar. 5, 1861.
2054	Walker, Geo. W.....	Boston, Mass.....	Ash pail.....	Aug. 13, 1861.
1015	Walker, P. G., et al. (See Denning & Walker, assignors.)	Boston, Mass.....	Gas retorts.....	April 9, 1861.
339	Walker, Samuel H. & M. C. Wallace, Henry E. (See Gould, John Henry, assignor.) Walter, W. L., and John Fowler. (See Fowler & Walter.) Walton, Frederick.....	Haughton Dale, Denton, England.....	Apparatus for the manufacture of varnish. (Patented in England January 27, 1860.)	Feb. 5, 1861.
2718	Walton, Frederick.....	Haughton Dale, Denton, England.....	Mode of treating drying oils for manufacture of varnish and other purposes. (Patented in England Jan. 27, 1860.)	Nov. 12, 1861.
2455	Wandel, Hiram, et al. (See Louis, Peter, assignor.)	Sacramento, Cal.....	Marine propeller.....	Oct. 8, 1861.
2755	Ward, Charles.....	Salem, Mass.....	Mode of securing knobs to doors, drawers, &c.....	Nov. 19, 1861.
	Ward, D. T., et al. (See Koese, Ward & Wilkinson.)			
	Ward, John, jr. (See Johnson, Josee, assignor.)			
	Ward, John, jr. (See Johnson, Josee, assignor.)			
2612	Ward, Moses N.....	Old Town, Maine.....	Tobacco pipes.....	Oct. 29, 1861.
	Wardwell, Isaac, et al. (See Warren, Scofield, Wardwell & Jones.)			
2113	Waring, Jno. B., jr.....	South Manchester, Conn.....	Machines for sorting thread.....	Aug. 20, 1861.
1928	Warner, Alexander.....	Brooklyn, N. Y.....	Washing knuckle.....	July 30, 1861.
39	Warner, H. W.....	Greenfield, Mass.....	Skates.....	Jan. 1, 1861.
2112	Warner, John, and Jacob H. Vosburgh.....	Galesburg, Mich.....	Stump machine.....	Aug. 20, 1861.
194	Warner, Joseph.....	New Britain, Conn.....	Kettle handle.....	Jan. 22, 1861.
2271	Warner, S. R.....	New Haven, Conn.....	Pipe joint.....	Sept. 10, 1861.
681	Warriner, P. P.....	Holland Patent, N. Y.....	Table.....	Mar. 12, 1861.
2217	Warren, Grant & Co. (See Sweetland Geo., assignor.)	Goshen, Ind.....	Soap.....	Sept. 3, 1861.
4	Warren, Joseph D., Jas. B. Scofield, Isaac Wardwell, and Augustus T. Jones.....	Stamford, Conn.....	Stove..... (Reissue.)	Feb. 5, 1861.
1233	Warren, Sylvester W., assignor to self, T. C. Banks, and Jno. Thompson.....	Brooklyn, N. Y.....	High and low water indicator for steam boilers.....	April 30, 1861.
357	Washburn, Ichabod, assignor to self and P. L. Moen.....	Worcester, Mass.....	Hardening and tempering wire.....	Feb. 5, 1861.
	Washburn & Moen. (See Frost, W. E., assignor.)			
1726	Washburn, William L.....	Springfield, Mass.....	Ventilator.....	July 2, 1861.

	Waterbury Brass Company. (See Seymour, Frederick J., assignor.)		
2719	Waterbury, Enos	Stamford, Conn.	Automatic gates
2171	Waterman, C. C. P., assignor to J. W. Jarvis & Co.	Sandwich, Mass.	Machines for grinding glass shades
107	Waters, Elisha	Troy, N. Y.	Making paper boxes (Reissue.)
	Waters, Stimpson, Shepherd & Keene. (See Jenkins, J., assignor.)		
340	Watkins, Henry T.	Anderson, Ind.	Cider mills
1904	Watkins, Jno. De L. and R. Bryson	Schenectady, N. Y.	Mowing machines
100	Watson, Alexander T.	Castleton, N. Y.	Railroad car spring (Reissue.)
	Watson, Jos., et al. (See Adams, Albert S., assignor.)		
1317	Watson, Robert	Chatham, Ill.	Permanent railways
2499	Watson, William	Tonica, Ill.	Railroad rails
2613	Watson, William Medd	Tonica, Ill.	Grain separator
2614	Watson, William Medd	Tonica, Ill.	Screens of winnowing machines
2658	Watson, William Medd	Tonica, Ill.	Mould-board blanks
914	Watson, William S.	Madison, Ind.	Brick machines
1256	Watters, Walter E.	East Bend, Ky.	Pumps
1092	Wattles, Otis B.	Mooreboro', N. C.	Straw cutters
2453	Way, John Thomas	London, England	Electric light. (Patented in England April 23, 1857)
2454	Way, John Thomas	London, England	Electric light. (Patented in England May 4, 1857)
1541	Weather, James	Greensburg, Ind.	Heading bolts
138	Weaver, H. B., assignor to self and W. H. Strong	South Windham, Conn.	Machines for dressing millstones
1257	Weaver, John H.	Baltimore, Md.	Burial cases
40	Weber, L. C. T.	Rochester, N. Y.	Breech-loading ordnance
2009	Webster, Alonzo	White River Junction, Vt.	Sewing machines
1600	Webster, Joel, assignor to self and G. C. & T. H. Hotchkiss.	Brooklyn, N. Y.	Journal box
	Wedge, F., and J. G. Manley. (See Manley & Wedge)		
41	Weeden, Stephen R.	Providence, R. I.	Lamp and candle wicks
279	Weeks, A., and E. S. Dawson. (See Dawson & Weeks.)	Charlestown, Mass.	Railroad chairs
	Weight, Enoch, assignor to self, N. G. Simonds, and J. B. Clapp.		
851	Weiland, G., assignor to self and Francis Fisher	Buffalo, N. Y.	Straw-carrier for threshing machines
	Weiler, P. W., et al. (See Muller, Julius J., assignor.)		
	Weiler, Peter. (See Degener, Frederick Otto, assignor.)		
	Weimer, Peter L.	Lebanon, Pa.	Steam-engines
268	Weimer, P. L., assignor to self and J. A. & L. E. Weimer.	Lebanon, Pa.	Registering apparatus for steam-engines
1438	Weir, William S., jr.	Monmouth, Ill.	Cultivators
2906	Weiss, F. W.	Mt. Vernon, N. Y.	Military cloaks
2010	Weissenborn, Edward	New York, N. Y.	Method of making iron chains
2907	Weissenborn, Henry	Newark, N. J.	Apparatus for collecting zinc from waste gases of furnaces
2615	Weitling, William	New York, N. Y.	Sewing machines
1318	Weitman, C.	Independence, Iowa	Broom
2763	Weitman, Christian, assignor to self, H. W. Glynn, and A. Hageman.	Independence, Iowa	Device for shrinking tire
1588	Weitz, V.	Cleveland, Ohio	Pumps
2406	Welch, Rodney	Worth, Ill.	Corn planters
	Weld, De Forrest, et al. (See Bullock, Chester, assignor.)		
2908	Welling, J. J.	Cedar Falls, N. Y.	Device for weaning calves
2909	Wellington, A. H.	Woodstock, Vt.	Saw gummer
	Wellington, C. A., et al. (See Pruden, D. R., assignor.)		
3016	Wells, John H.	Brooklyn, N. Y.	Automatic primer for fire-arms
	Wells & Littlefield. (See Langdon, L. W., assignor.)		

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
752	Wells, Moses D.	Morgantown, Va.	Churn dasher.	Mar. 19, 1861.
	Wells, Smith & Francis. (See Seypes & Smith, assignors.)			
	Wells, Smith & Francis. (See Seypes & Smith, assignors.)			
	Wells, Smith & Francis. (See Sailor, S. H., assignor)		(Design)	
	Wells, Smith & Francis. (See Sailor, S. H., assignor)		(Design)	
	Wells, Thos. F., and George A. Phillips. (See Seely, Edgar D., assignor.)			
1915	Wells, Wm., assignor to self, Thos. C. McDowell, and A. B. Little.	Harrisburg, Pa.	Cot or bedstead	July 23, 1861.
1093	Wenisch, J., and	Tompkinsville, N. Y.	Tablets	April 16, 1861.
	R. B. Berky	New York, N. Y.		
		New York, N. Y.		
269	Wesolowski, Maurice	Providence, R. I.	Apparatus for obtaining light by frictional electricity	Jan. 29, 1861.
538	Wesson, Phineas D.	Attleboro', Mass.	Steam trap.	Mar. 26, 1861.
270	West, Hiram E.	Norristown, Pa.	Machines for pressing bonnets	Jan. 29, 1861.
2557	West, John G., jr., assignor to Jane H. West and M. C. Boyer.	Norristown, Pa.	Valves and valve-motion for steam-engines	Oct. 22, 1861.
2558	Westland, Charles S., assignor to Adin Alexander and Wm. J. Imis.	Providence, R. I.	Lubricating cups.	Oct. 22, 1861.
1542	Weston, E. R.	East Corinth, Me.	Process of converting iron into steel by cementation	June 11, 1861.
495	Wethered, James S., and Selim E. Woodworth	San Francisco, Cal.	Process for treating the ores of the precious metals	Feb. 19, 1861.
	Wethered, James S. (See Woodworth, Selim E., assignor.)			
	Wetmore & Lathrop. (See Quann, William, assignor.)			
634	Wetmore, N. D.	Cleveland, Ohio.	Mode of preserving butter	Mar. 5, 1861.
1929	Weymouth, A. L.	Boston, Mass.	Bridle bit	July 30, 1861.
38	Wharton, William, jr.	Philadelphia, Pa.	Transferring cars from one track to another. . . (Reissue)	Feb. 19, 1861.
682	Wheeler, Cyrenus, jr.	Poplar Ridge, N. Y.	Reaping and mowing machines	Mar. 12, 1861.
	Wheeler, Cyrenus, jr. (See Osgood, Robert T., assignor. Reissue.)			
	Wheeler, Cyrenus, jr. (See Osgood, Robert T., assignor. Reissue.)			
	Wheeler, Cyrenus, jr. (See Osgood, Robert T., assignor. Reissue.)			
	Wheeler, C. A., and A. Forrist. (See Forrist & Wheeler.)			
271	Wheeler, Ellsha H.	Keokuk, Iowa	Harvesting machines	Jan. 29, 1861.
211	Wheeler, Grant J., G. W. Donnell, and William Sharp, assignors to James C. Beach.	Bloomfield, N. J.	Paper-making machinery	Jan. 22, 1861.
195	Wheeler, Sarah Jane	New Britain, Conn.	Curry combs.	Jan. 22, 1861.
	Wheeler, Sidney S. (See Smith, Russell, assignor.)			
	Wheeler & Wilson Manufacturing Company. (See Marsh, Clark, assignor.)			
1589	Wheelock, Jerome	Worcester, Mass.	Rotary valve for steam-engines	June 18, 1861.
2756	Whetsome, John L.	Cincinnati, Ohio	Locomotives	Nov. 19, 1861.
1845	Whipple, J. F., assignor to Seamless Clothing Manufacturing Company.	New York, N. Y.	Military caps	July 16, 1861.
	Whipple, Jona E. (See Hutchison, James, assignor.)			
1388	Whisler, Jacob S.	Albany, Ill.	Wagon brakes	May 21, 1861.

1590	Whittall, John M.	Philadelphia, Pa.	Preserve jars	June 18, 1861.
1041	Whitcomb, J. O., assignor to self and Joseph Dodin.	New York, N. Y.	Hand hemmers for sewing	April 9, 1861.
1930	White, A.	Geneseo, Ill.	Governor valves for steam-engines.	July 30, 1861.
	White, C. H., and H. Lawrence. (See Lawrence & White.)			
	White, Edward, et al. (See Scripture, E. S., assignor.)			
196	White, H. S.	Newport, R. I.	Newspaper files	Jan. 22, 1861.
915	White, H. S.	Newport, R. I.	Newspaper files	April 2, 1861.
2720	White, James.	Cleveland, Ohio	Camp bedstead	Nov. 12, 1861.
2801	White, Thomas.	Davenport, Iowa.	Cartridges	Nov. 26, 1861.
1094	White, Thomas W.	Milledgeville, Ga.	Seed planters	April 16, 1861.
2218	Whitehill, Hugh.	Newburg, N. Y.	Machines for dressing yarn	Sept. 3, 1861.
98	Whitely, William N., jr.	Springfield, Ohio.	Harvesting machines. (Division of Reissue)	June 25, 1861.
	Whiteman, Cox & Cox. (See Smith & Brown, assignors.)			
341	Whitemack, Thomas S.	Easton, Pa.	Rakes for harvesters	Feb. 5, 1861.
1212	Whitemack, Thomas S.	Easton, Pa.	Harvesting machines	April 16, 1861.
2114	Whitford, George.	Providence, R. I.	Washboard	Aug. 20, 1861.
	Whiting & Gabrion. (See Gabrion & Whiting.)			
	Whiting, R., and William Braidwood. (See Braidwood & Whiting.)			
56	Whitley, John H., assignor to self and C. S. Carmichael.	Oswego, Ill.	Apparatus for enlarging photographic pictures	Jan. 1, 1861.
496	Whitmore, Seth H.	Cincinnati, Ohio.	Steam-engines	Feb. 19, 1861.
916	Whitmore, Seth H.	Cincinnati, Ohio.	Steam-engines	April 2, 1861.
	Whitney & Brown. (See Reynolds, George S., assignor.)			
1213	Whitney, Hugh H.	Waterford, Pa.	Bee hives	April 16, 1861.
1655	Whitney, James A.	Maryland, N. Y.	Brakes for vehicles.	June 25, 1861.
42	Whitney, S. A.	Glassborough, N. J.	Glass stopper for bottles	Jan. 1, 1861.
2857	Whitney, Washington.	Baldwinsville, Mass.	Clothes wringers.	Dec. 3, 1861.
2417	Whittam, Robert, assignor to Joseph Lockett and Robert Leake, jr.	Accrington, England.	Pantograph machines	Oct. 1, 1861.
	Whittemore, H. S. and D. H. (See Frost, Henry A., ass'r.)			
917	Whittemore, John R.	Chicopee Falls, Mass.	Vegetable cutter	April 2, 1861.
1932	Whittemore, John R.	Chicopee Falls, Mass.	Adjustable knife of feed cutters.	July 30, 1861.
2115	Whittemore, John R.	Chicopee Falls, Mass.	Straw cutters	Aug. 20, 1861.
497	Whitten, John.	Boston, Mass.	Fracture apparatus.	Feb. 19, 1861.
918	Whittier, Joseph G.	Attica, Ind.	Boot crimp	April 2, 1861.
2802	Whittier, Joseph W.	Cambridge, Mass.	Fastening window-blinds.	Nov. 26, 1861.
	Whitworth, T. S., and J. Higgins. (See Higgins & Whitworth.)			
2616	Whytock, Andrew.	London, England.	Metallic sheathing. (Patented in England Oct. 11, 1859)	Oct. 29, 1861.
1656	Wickersham, W. F.	Springfield, Ill.	Excavating machine	June 25, 1861.
2818	Widmer, Jacob, assignor to H. B. Bigelow.	New Haven, Conn.	Machines for cutting roots.	Dec. 10, 1861.
1488	Wiggin, George B., and John W. Hoard.	Providence, R. I.	Steam trap	June 4, 1861.
1800	Wigman, Jos. C.	Boston, Mass.	Gas cocks	July 9, 1861.
417	Wilcox, Dutee.	Providence, R. I.	Sleeve fasteners	Feb. 5, 1861.
2219	Wilcox, James A.	Rocky Hill, Conn.	Pipe wrench.	Sept. 3, 1861.
	Wilcox, Jedediah, and H. H. Miller. (See Mann, Bela A., assignor.)			
919	Wilcox, Martin.	Middlebury, Ohio.	Steam pump.	April 2, 1861.
920	Wilcox, Stephen, jr.	Westerly, R. I.	Hot air engines	April 2, 1861.
	Wilcox, William & Co. (See Cooke, James C., assignor.)			
	Wilder, J. C. (See Ames, Nathan, assignor.)			
1319	Wilder, M. G.	Meriden, Conn.	Sewing machines.	May 14, 1861.
1657	Wilder, Milo D.	Laporte, Ind.	Water elevators for cattle	June 25, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2162	Wilder, Milo D.	Laporte, Ind.	Water elevators	Aug. 27, 1861.
498	Wilder, R. A.	Cressona, Pa.	Machine for breaking coal.	Feb. 19, 1861.
2803	Wiley, Andrew J.	South Attleborough, Mass.	Making "joint wire" or "stock" for jewelry	Nov. 26, 1861.
499	Wilford, Frederick	Eagle, Wis.	Apparatus for walling wells, cisterns, &c., with grout.	Feb. 19, 1861.
418	Wilkins, C. M.	West Andover, Ohio	Upsetting fire	Feb. 12, 1861.
921	Wilkins, C. M.	West Andover, Ohio	Cheese vat operator	April 2, 1861.
145	Wilkins, C. M.	West Andover, Ohio	Cheese vats (Reissue)	Dec. 24, 1861.
43	Wilkinson, John	Baltimore, Md.	Automatic brakes	Jan. 1, 1861.
131	Wilkinson, John	Baltimore, Md.	Dumping wagon	Jan. 15, 1861.
	Wilkinson, J. G., et al. (See Keese, Ward & Wilkinson.)			
	Wilkinson, N. J., and T. Jacobs. (See Jacobs & Wilkinson.)			
	Wilkinson, Wm. A., and D. A. Danforth. (See Danforth & Wilkinson.)			
753	Wileox, Charles H.	New York, N. Y.	Sewing machine needles	Mar. 19, 1861.
1727	Willett, Samuel A.	Philadelphia, Pa.	Heater and boiler	July 2, 1861.
2910	Willett, T. J.	Nunda, N. Y.	Pumps	Dec. 10, 1861.
197	Willey, W. n. C.	Princeton, Ill.	Corn planters	Jan. 22, 1861.
2368	Williams, C., and E. F. Falconnet	Nashville, Tenn.	Bell piano	Sept. 24, 1861.
419	Williams, C. W.	Boston, Mass.	Sewing machines	Feb. 12, 1861.
1711	Williams, E. C., assignor to James Flanagan	Jersey City, N. J.	Tent	July 2, 1861.
1389	Williams, Harrison G.	Warren, R. I.	Stop motion for drawing frames	May 21, 1861.
2804	Williams, Isaac F.	New York, N. Y.	Machine for applying flocks to felt-rubber goods.	Nov. 26, 1861.
2418	Williams, Isaiah M., assignor to self and Wm. P. Wolf.	Blanchester, Ohio	Mode of operating churns	Oct. 1, 1861.
	Williams, John, and G. W. Lawbaugh. (See Lawbaugh and Williams.)			
	Williams, S. G., et al. (See Seymour, Wm. H., assignor.)			
	Williams, S. G., et al. (See Palmer & Williams, assignors. Reissue.)			
	Williams, Samuel K. (See Carpenter, Lewis R.)			
	Williams, Samuel P., jr. (See Miller, Wm., assignor.)			
2321	Williams, Samuel W.	Centreville, N. Y.	Ventilators for houses	Sept. 17, 1861.
645	Williams, Turner, assignor to self and David Heaton, 2d.	Providence, R. I.	Converting reciprocating into rotary motion. (Antedated Sept. 5, 1860.)	Mar. 5, 1861.
922	Williams, Turner	Providence, R. I.	Means for avoiding the dead centres in cranks	April 2, 1861.
2723	Williams, Turner, assignor to self and David Heaton, 2d.	Providence, R. I.	Cranks for driving sewing machines and other machinery	Nov. 12, 1861.
44	Williams, William, assignor to self and Ric'd D. Goodwin.	St. Louis, Mo.	Floating mattress	Jan. 1, 1861.
500	Williams, William T.	New York, N. Y.	Animal traps	Feb. 19, 1861.
66	Williamson, George, assignor to L. S. Goble and H. E. Richards.	Newark, N. J.	Veneer planer	Jan. 1, 1861.
1905	Williamson, M. F., and J. J. Swigert	Hyattsville, Ohio	Corn shellers and huskers	July 23, 1861.
839	Willis, Martha	Rochester, N. Y.	Obstetrical bandages	Mar. 26, 1861.
1016	Willmot, George R.	West Meriden, Conn.	Head for screws and tacks	April 9, 1861.
1320	Willmot, S. R.	Brooklyn, N. Y.	Basket for berries	May 14, 1861.
1543	Willmot, S. R.	Brooklyn, N. Y.	Hoop skirts	June 11, 1861.
1489	Willmot, W. S.	New York, N. Y.	Rakes for harvesters	June 4, 1861.

682	Willson, Ethan S	Saratoga Springs, N. Y	Safety -hips	Mar. 12, 1861.
1931	Wilson, Francis G.	Ontario, Canada West	Hay rakes	July 30, 1861.
316	Wilson, G. J., and D. H. Fox	Reading, Pa.	Gas metres (Additional improvement)	Feb. 26, 1861.
840	Wilson, T. H.	Harrisburg, Pa.	Blowers	Mar. 26, 1861.
501	Wilson, Charles	Brooklyn, N. Y.	Tightening ropes on cotton bales	Feb. 19, 1861.
	Wilson, Charles	Springfield, Mass.	Cutting stone (Extension)	Mar. 12, 1861.
2311	Wilson, Edward Brown, assignor to Wm. Butcher, jr.	Westminster, Eng.	Annealing and swaging castings	Sept. 17, 1861.
2764	Wilson, George F.	Providence, R. I.	Army cooking wagons	Nov. 19, 1861.
2549	Wilson, Hercules M.	Newark, N. J.	Operating window shutters	Oct. 22, 1861.
2866	Wilson, J. B., assignor to self and John M. Moore.	Williamstown, N. J.	Preserving vessels	Dec. 3, 1861.
852	Wilson, Joseph B., assignor to John F. Bodine	Williamstown, N. J.	Stoppers for sealing cans and jars	Mar. 26, 1861.
1801	Wilson, J. B.	Williamstown, N. J.	Stoppers for preserving vessels	July 9, 1861.
	Wilson, James B. (See McNamee, James, assignor.)			
1321	Wilson, J. N.	Mount Bethel, Pa.	Washing machine	May 14, 1861.
3017	Wilson, John	Chicago, Ill.	Manufacture of fibrous water-proof fabrics	Dec. 24, 1861.
	Wilson, J. W., and J. Mumford. (See Mumford & Wilson.)			
	Wilson, S. B. (See Cole, Isaac C., assignor.)			
	Wilson & Wheeler Manufacturing Co. (See Marsh, Clark, assignor.)			
	Wilson, Wm., and Jacob Diehl. (See Diehl & Wilson.)			
272	Winans, Ross & Thomas	Baltimore, Md.	Anchor-well and anchor	Jan. 29, 1861.
342	Winans, Ross & Thomas	Baltimore, Md.	Packing for stuffing boxes	Feb. 5, 1861.
841	Winans, Ross & Thomas	Baltimore, Md.	Steering apparatus for navigable vessels	Mar. 26, 1861.
842	Winans, Ross & Thomas	Baltimore, Md.	Stuffing boxes	Mar. 26, 1861.
2911	Winchell, U. B.	Oak Hill, N. Y.	Hold-back hooks	Dec. 10, 1861.
	Winchester, C. G. C. (See Fitts, Samuel L., assignor.)			
57	Winchester, G. K., assignor to New England Butt Co.	Providence, R. I.	Braiding machine	Jan. 1, 1861.
	Winchester, Gilman K., et al. (See Cady, Carpenter & Winchester.)			
1439	Wing, Charles P.	Fayetteville, N. Y.	Harvester	May 28, 1861.
1017	Winslow, John F.	Troy, N. Y.	Rolling and compressing puddler's balls	Dec. 11, 1861.
2669	Winsor, Joseph S.	Providence, R. I.	Machines for tentering and drying cloth	April 9, 1861.
1322	Winter, Henry	Port Orford, Oregon	Planing saws	Nov. 5, 1861.
		Albion Place, Hackney, England	Machine for weighing sacks. (Patented in England Sept. 15, 1859.)	May 14, 1861.
1095	Wirtz, S. M., and F. Swift.	Hudson, N. Y.	Grain separators	April 16, 1861.
566	Wise, Thomas	Boston, Mass.	Stamp-head for quartz crushers	Feb. 26, 1861.
	Wolf, J. G. (See Long, Josiah, assignor.)			
132	Wolf, Lorenz	Hamburg, Mo.	Ploughs	Jan. 15, 1861.
	Wolf, Wm. P. (See Williams, Isaiah M., assignor.)			
502	Wood, A. H.	Boston, Mass.	Gas burner regulator	Feb. 19, 1861.
1323	Wood, Charles B.	New York, N. Y.	Carriages	May 14, 1861.
46	Wood, Corbin O.	Worcester, Mass.	Breech-loading fire-arms	Jan. 1, 1861.
143	Wood, George, and John King, assignors to selves and Wm. Lawrence.	Philadelphia, Pa.	Dredging crane (Reissue)	Dec. 17, 1861.
1324	Wood, George	Strasburg, Pa.	Field bucket	May 14, 1861.
42	Wood, John M.	Seneca, N. Y.	Willow-peeler (Reissue)	Feb. 26, 1861.
2867	Wood, Joseph, assignor to self and Edward W. Serrell.	Red Bank, N. J.	Mode of oiling journals	Dec. 3, 1861.
3018	Wood, Joseph	Red Bank, N. J.	Frogs for railroads	Dec. 24, 1861.
2858	Wood, W. A.	Hoosick Falls, N. Y.	Harvesters	Dec. 3, 1861.
2757	Wood, Walter A.	Hoosick Falls, N. Y.	Rakes for harvesters	Nov. 19, 1861.
1337	Wood, W. D., assignor to A. Wood	Wilmington, Del.	Sheet iron	May 14, 1861.
754	Woodard, P. G.	Waterford, Pa.	Butter-worker	Mar. 19, 1861.

List of patentees of inventions, designs, and reissues, 1861.

No.	Name of patentee.	Residence.	Invention or discovery.	Date.
2859	Woodbury, James A	Boston, Mass	Projectiles for smooth-bored ordnance	Dec. 3, 1861.
2318	Woodbury, Hiram, assignor to G. A. Prince and Thomas Stephenson.	Buffalo, N. Y.	Swells for musical instruments	Sept. 17, 1861.
2805	Woodbury, Seth D.	Lynn, Mass	Elastic carriage wheel	Nov. 26, 1861.
755	Woodbury, William	Gloucester, Mass	Spring-tackle for the sheets of fore-and-aft rigged vessels. . .	Mar. 19, 1861.
635	Woodward, Cox & McCord. (See McCord, Wm., assg'r.)	Baltimore, Md.	Mode of operating the reflector of a solar camera	Mar. 5, 1861.
503	Woodward, David A	Ercildown, Pa.	Horse-rakes	Feb. 19, 1861.
2055	Woodward, Ferdinand	Sacramento City, Cal	Bee hive	Aug. 13, 1861.
2724	Woodruff, Jacob D., assignor to Thomas B. & John B. Peck.	Brooklyn, N. Y.	Saddles	Nov. 12, 1861.
1018	Woodworth, Selim E.	Murphy's, Cal	Amalgamator	April 9, 1861.
1544	Woodworth, Selim E., and James E. Wethered	Murphy's, Cal	Arastra	June 11, 1861.
	Woodworth & Wethered. (See Wethered & Woodworth.)	San Francisco, Cal		
2116	Woody, John	Mount Vernon, Ind	Harvesters	Aug. 20, 1861.
273	Woolsey, Philip H	Andes, N. Y.	Shingle machines	Jan. 29, 1861.
504	Woolsey, Philip H	Andes, N. Y.	Feeding tapering lumber to rotary planes	Feb. 19, 1861.
1325	Wotten, John E.	Philadelphia, Pa.	Hydrostatic pressure indicator	May 14, 1861.
2452	Worby, Wm., and John Fowler. (See Fowler & Worby.)	Ypsilanti, Mich	Instruments for stretching elastic gaiters	Oct. 8, 1861.
1914	Worden, Alva	Utica, N. Y.	Lamps	July 23, 1861.
45	Wortendike, Cornelius A	Godwinville, N. J.	Candlewicks	Jan. 1, 1861.
2272	Wright, Albert H.	New York, N. Y.	Rice cleaning machines	Sept. 10, 1861.
2500	Wright, E. M.	Marysville, Cal	Nozzles for hose-pipes	Oct. 15, 1861.
47	Wright, Hanson	Milford, N. Y.	Preparing patterns for moulding	Jan. 1, 1861.
2670	Wright, John, jr.	New York, N. Y.	Processes of refining and purifying sugar	Nov. 5, 1861.
1843	Wright, Joseph C.	Minersville, Pa.	Lamps	July 16, 1861.
2280	Wright, Julius, assignor to self and Jos. Sigourney	Bristol, Conn.	Whirling jack for spinning tops, &c	Sept. 10, 1861.
2912	Wright, Peter	Dudley, Eng.	Wheels. (Patented in England May 22, 1861)	Dec. 10, 1861.
1104	Wright, Lewis R., assignor to self and Thos. R. Howard	Cohoes, N. Y.	Seed planters	April 16, 1861.
131	Wright, T., and E. J. Richmond. (See Richmond & Wright.)	New York, N. Y.	Friction clutches	Nov. 19, 1861.
133	Wright, Wendell	New York, N. Y.	Car brakes	Jan. 15, 1861.
2683	Wuterich, Ferdinand, assignor to self and John M. Hathaway	New York, N. Y.	Machines for making cigars	Nov. 5, 1861.
1916	Wyberd, John, assignor to Frederick S. Littlejohn	New York, N. Y.	Mode of operating slats or blinds	July 23, 1861.
505	Wyckoff, Arealous	Elmira, N. Y.	Machine for cutting wooden troughs	Feb. 19, 1861.
690	Wyckoff, A., and L. Stevens, assignors to A. Wyckoff.	Elmira, N. Y.	Hollow augers	Mar. 12, 1861.
1096	Wyckoff, Arealous	Elmira, N. Y.	Water pipes	April 16, 1861.
64	Wyckoff, J. N., and Y. M. Fell	Brooklyn, N. Y.	Gold amalgamators	April 9, 1861.
1390	Wyckoff, William C.	Brooklyn, N. Y.	Cork pull	May 21, 1861.
636	Wyeth, Alexander R.	West Middletown, Pa.	Tanning	Mar. 5, 1861.
	Wygant, James, et al. (See Bush, Charles, assignor.)			
274	Yale, Linus, jr.	Philadelphia, Pa.	Locks	Jan. 29, 1861.
1327	Yale, Linus, jr.	Philadelphia, Pa.	Locks	May 14, 1861.

1326	Yale, Linus, jr.	Philadelphia, Pa.	Lock	May 14, 1861.
2550	Yates, Thomas P.	Concord, N. H.	Paper files	Oct. 22, 1861.
2966	Yeiser, Frederick	Danville, Ky.	Meridian instruments	Dec. 17, 1861.
3019	Yerk, James S., and G. H. Heming	Tiffin, Ohio	Bridges	Dec. 24, 1861.
1728	Youdan, William, and D. Thomas	West Elizabeth, Pa.	Coal railroads	July 2, 1861.
2920	Youmans, Lewis	Fulton, N. Y.	Low water detector for steam boilers	Sept. 3, 1861.
2163	Youmans, Walter	Waterford, N. Y.	Railroad car trucks	Aug. 27, 1861.
1391	Young, Charles A.	Providence, R. I.	Machine for making upholstery springs	May 21, 1861.
54	Young, Hiram	New York, N. Y.	Teapot (Design)	May 7, 1861.
1328	Young, James	New York, N. Y.	Electro-magnetic bathing apparatus	May 14, 1861.
843	Young, Jesse	Franklin Furnace, Ohio	Packing of pistons for steam engines	Mar. 26, 1861.
1802	Young, John	West Galway, N. Y.	Washing machines	July 9, 1861.
111	Young, John	West Galway, N. Y.	Washing machines (Reissue)	July 30, 1861.
3029	Young, Joseph, assignor to John B. and Joseph Young	Varick, N. Y.	Machines for removing the husks from corn	Dec. 24, 1861.
1729	Young, McClintock, jr.	Frederick, Md.	Gearing for driving machinery	July 2, 1861.
1803	Young, McClintock, jr.	Frederick, Md.	Harvesters	July 9, 1861.
933	Zech, Gustavus, and Jacob Kiefer	Indianapolis, Ind.	Shingle machines	April 2, 1861.
2056	Zeitter, John, and Joseph Zint	Dayton, Ohio	Meat cutters	Aug. 13, 1861.
	Zinn, J. H., and Thomas N. Fisher. (See Fisher & Zinn.)			
	Zintl, Joseph, and John Zeidler. (See Zeidler & Zintl.)			
	Zscheck, Gustavus. (See Gummer, Albert, assignor.)			
637	Zulick, T. C.	Schuylkill Haven, Pa.	Potato diggers	Mar. 5, 1861.
1497	Zwicki, Caspar, assignor to self, John Mason and Anthony, and Nicholas Snyder.	Pittsburg, Pa.	Looms	June 4, 1861.

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