

System for Reusable Space Flight Hardware;  
 NASA Case No.: ARC-16692-1: Fiber-Reinforced Composite Materials;  
 NASA Case No.: ARC-14569-2: Spatial Standard Observer;  
 NASA Case No.: ARC-16348-1: Co-Optimization of Blunt Body Shapes for Moving Vehicles;  
 NASA Case No.: ARC-15204-1: Rapid Polymer Sequencer.

**Sumara M. Thompson-King,**  
*Acting Deputy General Counsel.*

[FR Doc. 2012-21912 Filed 9-5-12; 8:45 am]

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## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

[Notice (12-063)]

### Government-Owned Inventions, Available for Licensing

**AGENCY:** National Aeronautics and Space Administration.

**ACTION:** Notice of availability of inventions for licensing.

**SUMMARY:** Patent applications on the inventions listed below assigned to the National Aeronautics and Space Administration, have been filed in the United States Patent and Trademark Office, and are available for licensing.

**DATES:** September 6, 2012.

#### FOR FURTHER INFORMATION CONTACT:

Kaprice L. Harris, Attorney Advisor, Glenn Research Center at Lewis Field, Code 500-118, Cleveland, OH 44135; telephone (216) 433-5754; fax (216) 433-6790.

NASA Case No.: LEW-18340-2: Offset Compound Gear Inline Two Speed Drive;

NASA Case No.: LEW-18313-2: Chalcogenide Nanoionic-Based Radio Frequency Switch;

NASA Case No.: LEW-18601-1: Inductive Power Device;

NASA Case No.: LEW-18566-1: Low Density, High Creep Resistant Single Crystal Superalloy with Lower Manufacturing Cost;

NASA Case No.: LEW-18362-2: Space Radiation Detector with Spherical Geometry;

NASA Case No.: LEW-18771-1: Integrated Temperature and Capacitive Ablation Recession Rate Sensors;

NASA Case No.: LEW-18473-1: Ka-Band Waveguide 2-Way Hybrid Combiner for MMIC Amplifiers with Unequal and Arbitrary Power Output Ratio;

NASA Case No.: LEW-18254-2: Simultaneous Non-Contact Precision

Imaging of Microstructural and Thickness Variation in Dielectric Materials Using Terahertz Energy;  
 NASA Case No.: LEW-18724-1: Vessel Generation Analysis;  
 NASA Case No.: LEW-18639-1: Atomic Oxygen Fluence Monitor;  
 NASA Case No.: LEW-18042-2: Process for Preparing Polymer Reinforced Silica Aerogels;  
 NASA Case No.: LEW-18076-2: Dust Removal from Solar Cells;  
 NASA Case No.: LEW-18236-2: Polyimides Derived From Novel Asymmetric Benzophenone Dianhydrides;  
 NASA Case No.: LEW-17877-2: Antenna Near-Field Probe Station Scanner;  
 NASA Case No.: LEW-18631-1: Circuit for Communication Over Power Lines;  
 NASA Case No.: LEW-18608-1: Method for Making Fuel Cell;  
 NASA Case No.: LEW-18483-1: Interference-Free Optical Detection for Raman Spectroscopy;  
 NASA Case No.: LEW-18714-1: High Strength Nanocomposite Glass Fibers;  
 NASA Case No.: LEW-18605-1: Electric Propulsion Apparatus;  
 NASA Case No.: LEW-18762-1: Selenium Interlayer for High-efficiency Multijunction Solar Cell;  
 NASA Case No.: LEW-18426-1: Dual-Mode Combustor;  
 NASA Case No.: LEW-18615-1: Purify Nanomaterials;  
 NASA Case No.: LEW-18632-1: Method for Fabricating Diamond-Dispersed Fiber-Reinforced Composite Coating On Low Temperature Sliding Thrust Bearing Interfaces;  
 NASA Case No.: LEW-18492-1: Synthesis Methods, Microscopy Characterization and Device Integration of Nanoscale Metal Oxide Semiconductors for Gas Sensing in Aerospace Applications;  
 NASA Case No.: LEW-18636-1: N Channel JFET Based Digital Logic Gate Structure;  
 NASA Case No.: LEW-18634-1: Multi-Parameter Scattering Sensor and Methods;  
 NASA Case No.: LEW-18586-1: Shock Sensing Apparatus;  
 NASA Case No.: LEW-18221-2: Method and Apparatus for Thermal Spraying of Metal Coatings Using Pulsejet Resonant Pulsed Combustion;  
 NASA Case No.: LEW-18619-1: Method to Transmit and Receive Video on Preexisting Wiring in Fixed and Mobile Structures;  
 NASA Case No.: LEW-17458-2: Compact Solid State Entangled Photon Source;  
 NASA Case No.: LEW-17634-2: Method for Making a Fuel Cell;

NASA Case No.: LEW-18649-1: Ultracapacitor Based Uninterruptible Power Supply (UPS) System;  
 NASA Case No.: LEW-18648-1: Epoxy-clay Nanocomposites;  
 NASA Case No.: LEW-18594-1: Thermomechanical Methodology for Stabilizing Shape Memory Alloy (SMA) Response;  
 NASA Case No.: LEW-18717-1: A High-Efficiency Power Module;  
 NASA Case No.: LEW-18785-1: Prestressing Shock Resistant Mechanical Components and Mechanisms Made From Hard, Superelastic Materials;  
 NASA Case No.: LEW-18432-2: Method for Providing Semiconductors Having Self-Aligned Ion Implant;  
 NASA Case No.: LEW-18604-1: Mechanical Components From Highly Recoverable Low Apparent Modulus Materials;  
 NASA Case No.: LEW-18614-1: High-Temperature Thermometer Using Cr-Doped GdAlO<sub>3</sub> Broadband Luminescence;  
 NASA Case No.: LEW-18761-1: Surface Temperature Measurement Using Hematite Coating;  
 NASA Case No.: LEW-18296-1: Modular Battery Controller;  
 NASA Case No.: LEW-18658-1: Levitating Electromagnetic Generator and Method of Using the Same;  
 NASA Case No.: LEW-18248-1: Cellular Reflectarray Antenna and Method of Making Same;  
 NASA Case No.: LEW-17916-2: Carbon Dioxide Gas Sensors and Method of Manufacturing and Using Same;  
 NASA Case No.: LEW-18542-1: Functionalization of Single Wall Carbon Nanotubes (SWCNTs) by Photooxidation;  
 NASA Case No.: 18477-1: Graphene Based Reversible Nano-Switch/Sensor Schottky Diode (nanoSSSD) Device.

**Sumara M. Thompson-King,**

*Acting Deputy General Counsel.*

[FR Doc. 2012-21913 Filed 9-5-12; 8:45 am]

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## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

[Notice (12-065)]

### Government-Owned Inventions, Available for Licensing.

**AGENCY:** National Aeronautics and Space Administration.

**ACTION:** Notice of availability of inventions for licensing.

**SUMMARY:** Patent applications on the inventions listed below assigned to the

National Aeronautics and Space Administration, have been filed in the United States Patent and Trademark Office, and are available for licensing.

**DATES:** September 6, 2012.

**FOR FURTHER INFORMATION CONTACT:**

Mark W. Homer, Patent Counsel, NASA Management Office—JPL, 4800 Oak Grove Drive, Mail Stop 180–200, Pasadena, CA 91109; telephone (818) 354–7770.

NASA Case No.: DRC–009–026: Systems and Methods for Peak-Seeking Control Polarization-Induced Fading in Fiber-Optic System;

NASA Case No.: NPO–47142–1: Robotic Tissue Scaffold;

NASA Case No.: NPO–47717–1: 360-Degree Camera Head for Unmanned Surface Sea Vehicles;

NASA Case No. NPO–47300–1: Textured Silicon Substrate Anode for LI Ion Battery;

NASA Case No. NPO–47604–1: Whispering Gallery Optical Resonator Spectroscopic Probe and Method;

NASA Case No. NPO–47580–1: Energy Harvesting Systems and Methods of Assembling Same;

NASA Case No. NPO–47310–1: Method and Apparatus for Measuring Near-Angle Scattering of Mirror Coatings;

NASA Case No. NPO–47869–1: Field Programmable Gate Array Apparatus, Method, and Computer Program.

**Sumara M. Thompson-King,**

*Acting Deputy General Counsel.*

[FR Doc. 2012–21915 Filed 9–5–12; 8:45 am]

**BILLING CODE P**

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

[Notice (12–064)]

**Government-Owned Inventions, Available for Licensing**

**AGENCY:** National Aeronautics and Space Administration.

**ACTION:** Notice of availability of inventions for licensing.

**SUMMARY:** Patent applications on the inventions listed below assigned to the National Aeronautics and Space Administration, have been filed in the United States Patent and Trademark Office, and are available for licensing.

**DATES:** September 6, 2012.

**FOR FURTHER INFORMATION CONTACT:**

Bryan A. Geurts, Patent Counsel, Goddard Space Flight Center, Mail Code 140.1, Greenbelt, MD 20771–0001; telephone (301) 286–7351; fax (301) 286–9502.

NASA Case No.: GSC–15994–1: Photonic Choke-Joints for Dual-Polarization Waveguides;

NASA Case No.: GSC–15774–1: A Device and Method for Gathering Ensemble Data Sets;

NASA Case No.: GSC–15957–1: METHOD AND APPARATUS FOR IMAGE PLANE EXIT PUPIL CHARACTERIZATION;

NASA Case No.: GSC–15977–1: SYSTEM AND METHOD FOR PHASE RETRIEVAL FOR RADIO TELESCOPE AND ANTENNA CONTROL;

NASA Case No.: GSC–15964–1: WIND ION NEUTRAL COMPOSITION APPARATUS;

NASA Case No.: GSC–16250–1: SYSTEM AND METHOD FOR IMPROVED COMPUTATIONAL PROCESSING EFFICIENCY IN THE HSEG ALGORITHM;

NASA Case No.: GSC–15692–1: EXPANDABLE AND RECONFIGURABLE INSTRUMENT NODE ARRAYS;

NASA Case No.: GSC–15727–1: SOLDERLESS CIRCULARLY POLARIZED MICROWAVE ANTENNA ELEMENT;

NASA Case No.: GSC–14873–1: ADR SALT PILL DESIGN AND CRYSTAL GROWTH PROCESS FOR HYDRATED MAGNETIC SALTS;

NASA Case No.: GSC–15660–1: SYSTEM, TOOL AND METHOD FOR INTEGRATED CIRCUIT AND COMPONENT MODELING;

NASA Case No.: GSC–15934–1: SYSTEM AND METHOD FOR DETERMINING PHASE RETRIEVAL SAMPLING FROM THE MODULATION TRANSFER FUNCTION;

NASA Case No.: GSC–16109–1: WRENCH WITH EXPANDING TIP ASSEMBLY;

NASA Case No.: GSC–15815–1: LIDAR Luminance Quantizer;

NASA Case No.: GSC–16105–1: Molecular Adsorber Coating;

NASA Case No.: GSC–15976–1: Phase Retrieval System for Assessing Diamond-Turning and Other Optical Surface Artifacts;

NASA Case No.: GSC–15935–1: Discrete Fourier Transform in a Complex Vector Space;

NASA Case No.: GSC–15782–1: Low Power, Multi-Channel Pulse Data Collection System and Apparatus;

NASA Case No.: GSC–15947–1: Method for Utilizing Properties of the SIN(X) Function for Phase Retrieval on NYQUIST-Under-Sampled Data;

NASA Case No.: GSC–16100–1: System and Method for Command and Data Handling in Space Flight Electronics;

NASA Case No.: GSC–15936–1: Radiation-Hardened Hybrid Processor;

NASA Case No.: GSC–15953–1: Radiation-Hardened Processing System;

NASA Case No.: GSC–15979–1: System and Method for Multi-Scale Image Reconstruction Using Wavelets;

NASA Case No.: GSC–15839–1: Widely Tunable Optical Parametric Generator Having Narrow Bandwidth Field;

NASA Case No.: GSC–15911–1: Graphite Composite Panel Polishing Fixture and Assembly;

NASA Case No.: GSC–15951–1: Method of Making Lightweight, Single Crystal Mirror;

NASA Case No.: GSC–16029–1: System and Method for Nanostructure Apodization Mask for Transmitter Signal Suppression in a Duplex Telescope;

NASA Case No.: GSC–15826–1: Ion Source with Corner Cathode;

NASA Case No.: GSC–16016–1: System and Method for Growth of Enhanced Adhesion Carbon Nanotubes on Substrates;

NASA Case No.: GSC–15886–1: Low Power, Automated Weight Logger;

NASA Case No.: GSC–15520–1: Imaging Device;

NASA Case No.: GSC–15970–1: Electrospray Ionization for Chemical Analysis of Organic Modules for Mass Spectrometry;

NASA Case No.: GSC–15672–1: An Apparatus for Ultrasensitive Long-Wave Imaging Cameras;

NASA Case No.: GSC–16024–1: System and Method for Improved Computational Processing Efficiency in the HSEG Algorithm;

NASA Case No.: GSC–15792–1: Systems and Method for Progressive Band Selection for Hyperspectral Images;

NASA Case No.: GSC–15948–1: Suspension Device for Use with Low Temperature Refrigerator;

NASA Case No.: GSC–16096–1: A Genomics-Based Keyed Hash Message Authentication Code Protocol;

NASA Case No.: GSC–16006–1: System and Apparatus Employing Programmable Transceivers;

NASA Case No.: GSC–15163–2: Detector for Dual Band Ultraviolet Detection.

**Sumara M. Thompson-King,**

*Acting Deputy General Counsel.*

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