

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM431917

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|---|-----------------------------------|-------------------------|-------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | SECURITY INTEREST | | |
| CONVEYING PARTY DATA | | | |
| Name | Formerly | Execution Date | Entity Type |
| General Atomics | | 06/20/2017 | Corporation: CALIFORNIA |
| RECEIVING PARTY DATA | | | |
| Name: | Bank of the West | | |
| Street Address: | 300 South Grand Avenue, 5th Floor | | |
| City: | Los Angeles | | |
| State/Country: | CALIFORNIA | | |
| Postal Code: | 90071 | | |
| Entity Type: | Banking Corporation: CALIFORNIA | | |
| PROPERTY NUMBERS Total: 13 | | | |
| Property Type | Number | Word Mark | |
| Registration Number: | 3978902 | BLITZER | |
| Registration Number: | 3860188 | CCS COMMANDER | |
| Registration Number: | 2062065 | E-SMART | |
| Registration Number: | 1554096 | | |
| Registration Number: | 1547695 | | |
| Registration Number: | 0709041 | GENERAL ATOMIC | |
| Registration Number: | 1555093 | GENERAL ATOMICS | |
| Registration Number: | 1549501 | GENERAL ATOMICS | |
| Registration Number: | 2778200 | NIRVANA | |
| Registration Number: | 2590572 | SRB | |
| Registration Number: | 2561263 | STORAGE RESOURCE BROKER | |
| Registration Number: | 0709040 | TRIGA | |
| Registration Number: | 2288741 | TMS3000 | |
| CORRESPONDENCE DATA | | | |
| Fax Number: | 4152687522 | | |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | | | |
| Phone: | (415) 268-6538 | | |
| Email: | achung@mofo.com | | |

CH \$340.00 3978902

Correspondent Name: Jennifer Lee Taylor, Morrison & Foerster
Address Line 1: 425 Market Street
Address Line 4: San Francisco, CALIFORNIA 94105

NAME OF SUBMITTER: Jennifer Lee Taylor

SIGNATURE: /JLT2/

DATE SIGNED: 06/20/2017

Total Attachments: 20

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PATENT AND TRADEMARK SECURITY AGREEMENT

THIS PATENT AND TRADEMARK SECURITY AGREEMENT (this "Agreement"), dated as of June 20, 2017, is made by and between GENERAL ATOMICS, a California corporation (the "Grantor"), and BANK OF THE WEST, a California banking corporation, as administrative agent for the Secured Parties referred to below (in such capacity, together with its successors and assigns in such capacity, the "Agent").

The Grantor, certain financial institutions as lenders (together with each of their respective successors and permitted assigns, each a "Lender" and collectively, the "Lenders"), the Issuing Bank, the Swing Line Lender and the Agent are parties to that certain Third Amended and Restated Credit Agreement, dated as of the date hereof (as amended, modified, renewed or extended from time to time, the "Credit Agreement"). In connection therewith, pursuant to the Second Amended and Restated Security Agreement, dated as of the date hereof (as amended, modified, renewed or extended from time to time, the "Security Agreement"), between the Grantor and the Agent, Grantor has granted to the Agent a security interest in all of Grantor's present and future assets, including the intellectual property identified below, to secure the Secured Obligations. To supplement Agent's security interest in such intellectual property pursuant to the Security Agreement, Grantor is executing and delivering this Agreement.

Accordingly, the parties hereto agree as follows:

SECTION 1 Definitions; Interpretation.

(a) Terms Defined in Credit Agreement. All capitalized terms used in this Agreement (including in the recitals hereof) and not otherwise defined herein shall have the meanings assigned to them in the Credit Agreement or the Security Agreement, as applicable.

(b) Interpretation. The rules of interpretation set forth in Section 1.05 of the Credit Agreement shall be applicable to this Agreement and are incorporated herein by this reference.

SECTION 2 Security Interest.

(a) Grant of Security Interest. As security for the payment and performance of the Secured Obligations, the Grantor hereby grants, assigns, and conveys to Agent, for itself and on behalf of and for the ratable benefit of the other Secured Parties, a security interest in all of the Grantor's right, title and interest in, to and under the following property, in each case whether now or hereafter existing or arising or in which the Grantor now has or hereafter owns, acquires or develops an interest and wherever located (collectively, the "Collateral"):

(i) all Patents and patent applications, domestic or foreign, all licenses relating to any of the foregoing and all income and royalties with respect to such licenses (including such Patents and patent applications as described in Schedule A), all rights to sue for past, present or future infringement thereof, all rights arising therefrom and pertaining thereto and all reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof;

(ii) all Trademarks, including state (including common law), federal and foreign trademarks, service marks and trade names, and applications for registration of such trademarks, service marks and trade names, all licenses relating to any of the foregoing and all income and royalties with respect to any such licenses (including such marks, names and applications as described in Schedule B), whether registered or unregistered and wherever registered, all rights to sue for past, present or future infringement or unconsented use thereof, all rights arising therefrom and pertaining thereto and all reissues, extensions and renewals thereof;

(iii) the entire goodwill of or associated with the businesses now or hereafter conducted by the Grantor connected with and symbolized by any of the aforementioned properties and assets;

(iv) all Commercial Tort Claims associated with or arising out of any of the aforementioned properties and assets;

(v) all Accounts, all intangible intellectual or other similar property and other general intangibles associated with or arising out of any of the aforementioned properties and assets and not otherwise described above, including all license payments and payments under insurance (whether or not the Agent is the loss payee thereof) or any indemnity, warranty or guaranty payable by reason of loss or damage to or otherwise with respect to the foregoing Collateral; and

(vi) all products, Proceeds and Supporting Obligations of or with respect to any and all of the foregoing Collateral; provided, however, that notwithstanding anything to the contrary contained in this Section 2(a), the security interests created by this Agreement shall not extend to, and the term "Collateral" (including all of the individual items comprising Collateral) shall not include, any Excluded Assets.

(b) Continuing Security Interest. The Grantor agrees that this Agreement shall create a continuing security interest in the Collateral which shall remain in effect until terminated in accordance with the Security Agreement.

SECTION 3 Supplement to Security Agreement. The terms and provisions of this Agreement are intended as a supplement to the terms and provisions of the Security Agreement. The rights and remedies of the Agent with respect to the security interests granted herein are without prejudice to, and are in addition to those set forth in the Security Agreement, all terms and provisions of which are incorporated herein by reference.

SECTION 4 Authorization to Supplement. If the Grantor shall obtain rights to any new Trademarks, any new patentable inventions or become entitled to the benefit of any patent application or Patent for any reissue, division, or continuation, of any Patent, in each case constituting Collateral, the provisions of this Agreement shall automatically apply thereto. Without limiting the Grantor's obligation under this Section 4, the Grantor authorizes the Agent to modify this Agreement by amending Schedule A or B to include any such new patent or trademark rights. No failure to so amend Schedule A or B shall in any way affect, invalidate or detract from the Agent's continuing security interest in all Collateral, whether or not listed on Schedule A or B.

SECTION 5 Further Acts. On a continuing basis, the Grantor shall make, execute, acknowledge and deliver, and file and record in the proper filing and recording places, all such instruments and documents, and take all such action as may be necessary or advisable or may be reasonably requested by the Agent to carry out the intent and purposes of this Agreement, or for assuring, confirming or protecting the grant or perfection of the security interest granted or purported to be granted hereby, to ensure the Grantor's compliance with this Agreement or to enable the Agent to exercise and enforce its rights and remedies hereunder with respect to the Collateral, including any documents for filing with United States Patent and Trademark Office (the "PTO") and/or any applicable state office. The Agent may record this Agreement, an abstract thereof, or any other document describing the Agent's interest in the Collateral with the PTO, including any modification hereof as provided above, at the expense of the Grantor.

SECTION 6 Binding Effect. This Agreement shall be binding upon, inure to the benefit of and be enforceable by the parties hereto and their respective successors and assigns. This Agreement shall also inure to the benefit of the other Secured Parties.

SECTION 7 Governing Law. This Agreement and any claims, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby shall be governed by, and construed in accordance with, the law of the State of New York except as required by mandatory provisions of law and to the extent the validity or perfection of the security interests hereunder, or the remedies hereunder, in respect of any Collateral are governed by the law of a jurisdiction other than New York.

SECTION 8 Entire Agreement; Amendment. This Agreement contains the entire agreement of the parties with respect to the subject matter hereof and shall not be amended except by the written agreement of the parties as provided in the Credit Agreement.

SECTION 9 Severability. Whenever possible, each provision of this Agreement shall be interpreted in such manner as to be effective and valid under all applicable laws and regulations. If, however, any provision of this Agreement shall be prohibited by or invalid under any such law or regulation in any jurisdiction, it shall, as to such jurisdiction, be deemed modified to conform to the minimum requirements of such law or regulation, or, if for any reason it is not deemed so modified, it shall be ineffective and invalid only to the extent of such prohibition or invalidity without affecting the remaining provisions of this Agreement, or the validity or effectiveness of such provision in any other jurisdiction.

SECTION 10 Counterparts. This Agreement may be executed in any number of counterparts and by different parties hereto in separate counterparts, each of which when so executed shall be deemed to be an original and all of which taken together shall constitute but one and the same agreement. Delivery of an executed counterpart of a signature page of this Agreement by facsimile or in electronic (*i.e.*, "pdf" or "tif") format shall be effective as delivery of a manually executed counterpart of this Agreement.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have duly executed this Agreement, as of the date first above written.

THE GRANTOR

GENERAL ATOMICS

By: _____

Name: Eric B. Rosenoff

Title: Assistant Treasurer

Address:

General Atomics
3550 General Atomics Court
San Diego, CA 92121
Attn: Treasurer
Fax No.: (858) 455-4215

with a copy to:

General Atomics
3550 General Atomics Court
San Diego, CA 92121
Attn: Law Department
Fax No.: (858) 455-3213

[Signature Page to Patent and Trademark Security Agreement]

sF-3761170

TRADEMARK
REEL: 006087 FRAME: 0978

THE AGENT

BANK OF THE WEST

By: 

Name: Daryl Krause

Title: Managing Director, Syndications

Address:

Bank of the West

Syndications

300 South Grand Avenue, 5th Floor

Los Angeles, California 90071

Attn: Daryl Krause

Fax No.: (213) 972-0618

Email: Daryl.Krause@bankofthewest.com

[Signature Page to Patent and Trademark Security Agreement]

sf-3761170

TRADEMARK
REEL: 006087 FRAME: 0979

SCHEDULE A
to the Patent and Trademark Security Agreement

Issued U.S. Patents of the Grantor

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|-------------------|-------------------|-----------------------|
| Broadband Infrared And Signature Control Materials And Methods Of Producing The Same | 5814367 | 9/29/1998 | General Atomics |
| High Efficiency Multistep Sinewave Synthesizer | 5757633 | 5/26/1998 | General Atomics |
| Shipping Container For Radioactive Material / Spent Fuel Transportation Cask Neutron Shield | 5894134 | 4/13/1999 | General Atomics |
| Low Volume Lightweight Magnetodielectric Materials | 6033782 | 3/7/2000 | General Atomics |
| Downflow Hydrothermal Treatment | 6054057 | 4/25/2000 | General Atomics |
| Refractory Heat Transfer Module | 6065284 | 5/23/2000 | General Atomics |
| Large Aperture Vibration Compensated Millimeter Wave Sensor | 6154174 | 11/28/2000 | General Atomics |
| Hydrothermal Processing With Phosphate Additive | 6238568 | 5/29/2001 | General Atomics |
| Compositions For Melt Processing High Temperature Superconductor | 5872081 | 2/16/1999 | General Atomics |
| System Of And Method For | 6678700 | 1/13/2004 | General Atomics |

A-1.

| Title | Patent No. | Issue Date | Assignee/Owner |
|--|------------|------------|-----------------|
| Transparent Management Of Data Objects In Containers Across Distributed Heterogenous Resources | | | |
| Process For Hydrothermal Treatment Of Materials | 6709602 | 3/23/2004 | General Atomics |
| Encryption Key Distribution And Network Registration System, Apparatus And Method | 7310424 | 12/18/2007 | General Atomics |
| Flexible Method And Apparatus For Encoding And Decoding Signals Using A Time Division Multiple Frequency Scheme | 7236464 | 6/26/2007 | General Atomics |
| Method And Apparatus For Data Transfer Using A Time Division Multiple Frequency Scheme Supplemented With Polarity Modulation | 7321601 | 1/22/2008 | General Atomics |
| Method And Apparatus For Increasing The Material Removal Rate In Laser Machining | 6664498 | 12/16/2003 | General Atomics |
| System And Method For Radioactive Waste Destruction | 6738446 | 5/18/2004 | General Atomics |
| Method And Apparatus For Measuring Ultralow Water Permeation | 6804989 | 10/19/2004 | General Atomics |
| Tunable Oscillator | 6781470 | 8/24/2004 | General Atomics |
| Method And Apparatus For Data | 6895059 | 5/17/2005 | General Atomics |

A-2.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|-----------------|
| Transfer Using A Time Division Multiple Frequency Scheme | | | |
| Wireless Device Attachment And Detachment System, Apparatus And Method | 6898652 | 5/24/2005 | General Atomics |
| Laser Containing A Distributed Gain Medium | 6937629 | 8/30/2005 | General Atomics |
| Data Transfer Using Frequency Notching Of Radio-frequency Signals | 7177368 | 2/13/2007 | General Atomics |
| Method And Apparatus For Adapting Multi-band Ultra-wideband Signaling To Interference Sources | 7,342,973 | 03/11/08 | General Atomics |
| Method And Apparatus For Data Transfer Using A Time Division Multiple Frequency Scheme With Additional Modulation | 7609608 | 10/27/09 | General Atomics |
| Method And Apparatus For Adapting Signaling To Maximize The Efficiency Of Spectrum Usage For Multi-band In The Presence Of Interference | 7403575 | 07/22/08 | General Atomics |
| Method And Apparatus For Dual Polarization Imaging | 7301138 | 11/27/07 | General Atomics |
| Magnetic Levitation And Propulsion System | 6827022 | 12/07/04 | General Atomics |

A-3.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|-----------------|
| System Of And Method For Transparent Management Of Data Objects In Containers Across Distributed Heterogenous Resources | 7269604 | 09/11/07 | General Atomics |
| Modular Guideway For A Magnetic Levitation Vehicle And Method For Manufacturing A Guideway Module | 7334525 | 2/26/2008 | General Atomics |
| Capacitor Pulse Forming Network With Multiple Pulse Inductors | 6965215 | 11/15/2005 | General Atomics |
| Method And Apparatus For Measuring Ultralow Permeation | 7178384 | 2/20/2007 | General Atomics |
| Ultra-wideband Rada System Using Sub-band Coded Pulses | 6989782 | 1/24/2006 | General Atomics |
| Method And Apparatus For Data Transfer Using Wideband Bursts | 7436899 | 10/14/2008 | General Atomics |
| Wireless Device Attachment And Detachment System, Apparatus And Method | 7149834 | 12/12/2006 | General Atomics |
| Method For Making Large Scale Multilayer Dielectric Diffraction Gratings On Thick Substrates Using Reactive Ion Etching | 7256938 | 8/14/2007 | General Atomics |
| Accelerated Ultralow Moisture Permeation Measurement | 7257990 | 8/21/2007 | General Atomics |

A-4.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|-----------------|
| Color Condensation For Image Transformation And/or Compression | 7796836 | 9/14/2010 | General Atomics |
| Water Oxidization System | 7611625 | 11/3/2009 | General Atomics |
| Composite Structures With Integral Intelligent Skin | 7746279 | 6/29/2010 | General Atomics |
| Active Armor Systems | 7819050 | 10/26/2010 | General Atomics |
| Laser Containing A Distributed Gain Medium | 7103078 | 9/5/2006 | General Atomics |
| Photosynthetic Oil Production In A Two-stage Reactor | 7687261 | 3/30/2010 | General Atomics |
| Photosynthetic Carbon Dioxide Sequestration And Pollution Abatement | 8262776 | 9/11/2012 | General Atomics |
| High Photoefficiency Microalgae Bioreactors | 7763457 | 7/27/2010 | General Atomics |
| Photosynthetic Oil Production With High Carbon Dioxide Utilization | 7662616 | 2/16/2010 | General Atomics |
| Apparatus And Methods For Use In Flash Detection | 7732769 | 6/8/2010 | General Atomics |
| Laser Containing A Distributed Gain Medium | 7366211 | 4/29/2008 | General Atomics |
| Method And System For Network Setup And Maintenance And Medium Access Control For A Wireless Sensor Network | 8199635 | 6/12/2012 | General Atomics |
| Linear Synchronous Motor With Phase Control | 8,224,509 | 7/17/2012 | General Atomics |

A-5.

| Title | Patent No. | Issue Date | Assignee/Owner |
|--|-------------------|-------------------|-----------------------|
| Data Transfer Using Frequency Notching Of Radio-Frequency Signals | 7,656,963 | 2/2/2010 | General Atomics |
| Method And Apparatus For Data Transfer Using A Time Division Multiple Frequency Scheme Supplemented With Polarity Modulation | 8,149,879 | 4/3/2012 | General Atomics |
| Optical System For Reducing Stimulated Brillouin Scattering By Controllably Changing Polarization Direction Of An Optical Signal | 8,761,607 | 6/24/2014 | General Atomics |
| Optical System For Reducing Stimulated Brillouin Scattering By Controllably Changing Polarization Direction Of An Optical Signal | 8,054,539 | 11/8/2011 | General Atomics |
| Microwave-Powered Pellet Accelerator | 7,831,008 | 11/9/2010 | General Atomics |
| Embedded Module For Linear Synchronous Motor | 8,221,024 | 7/17/2012 | General Atomics |
| System And Method For Vehicle Position Sensing With Helical Windings | 8,532,918 | 9/10/2013 | General Atomics |
| System And Method For Vehicle Position Sensing With Use Of Propulsion Windings | 8,499,697 | 8/6/2013 | General Atomics |
| Linear Motor Charged Electric Vehicle | 8,113,310 | 2/14/2012 | General Atomics |
| Transport System Incorporating Linear Motor Charged Electric Vehicle | 8,109,353 | 2/7/2012 | General Atomics |

A-6.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|-------------------|-------------------|-----------------------|
| Charged Capacitor Warning System And Method | 8,576,074 | 11/5/2013 | General Atomics |
| Apparatus And Methods For Use In Flash Detection | 8,304,729 | 11/6/2012 | General Atomics |
| Apparatus And Methods For Use In Flash Detection | 8,642,961 | 2/4/2014 | General Atomics |
| Apparatus And Methods For Use In Flash Detection | 7,947,954 | 5/24/2011 | General Atomics |
| Pseudo-Conductor Antennas | 9,543,640 | 1/10/2017 | General Atomics |
| Reflective Coating, Pigment, Colored Composition, and Process of Producing a Reflective Pigment | 8,932,724 | 1/13/2015 | General Atomics |
| Methods and Apparatus for Selective Gaseous Extraction of Molybdenum-99 and Other Fission Product Radioisotopes | 9,076,561 | 7/7/2015 | General Atomics |
| System and Method for Using A Pulse Flow Circulation for Algae Cultivation | 8,541,225 | 9/24/2013 | General Atomics |
| Magnetic Pseudo-Conductor Spiral Antennas | 8,847,846 | 9/30/2014 | General Atomics |
| System Of And Method For Transparent Management Of Data Objects In Containers Across Distributed Heterogenous Resources | 7,801,850 | 9/21/2010 | General Atomics |
| Magnetic Pseudo-Conductor Conformal Antenna | 8,773,312 | 7/8/2014 | General Atomics |

A-7.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|-----------------|
| Multi-Function Magnetic Pseudo-Conductor Antennas | 8,686,918 | 4/1/2014 | General Atomics |
| Active Armor Systems | 8,069,771 | 12/6/2011 | General Atomics |
| Active Armor Systems | 8,074,554 | 12/13/2011 | General Atomics |
| Active Armor Systems | 7,819,050 | 10/26/2010 | General Atomics |
| Method and Apparatus for Inhibiting Formation of and/or Removing Ice from Aircraft Components | 9,327,839 | 5/3/2016 | General Atomics |
| Methods And Apparatus For Suppressing Tritium Permeation During Tritium Production | 9,202,601 | 12/1/2015 | General Atomics |
| High Durability Joints Between Ceramic Articles, And Methods Of Making And Using Same | 9,132,619 | 9/15/2015 | General Atomics |
| High voltage amplifiers and methods | 8,854,144 | 10/7/2014 | General Atomics |
| Systems and Methods for Efficiently Preparing Plutonium-238 with High Isotopic Purity | 9,196,389 | 11/24/2015 | General Atomics |
| Pulsed Interrupter and Method of Operation | 9,054,530 | 6/9/2015 | General Atomics |
| Magnetically Stabilized Forward Observation Platform | 8,275,544 | 9/25/2012 | General Atomics |
| System and Method for Using A Pulse Flow Circulation for Algae Cultivation | 8,748,162 | 6/10/2014 | General Atomics |
| Pseudo-Conductor Antennas | 8,847,840 | 9/30/2014 | General Atomics |

A-8.

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|--|
| Method And Apparatus For Inhibiting Formation Of And/or Removing Ice From Aircraft Components | 9,327,839 | 5/3/2016 | General Atomics |
| Field Emitters of Wide-Bandgap Materials | 5,990,604 | 11/23/1999 | General Atomics |
| Thermionic Converter and Method of Making Same | 6,037,697 | 3/14/2000 | General Atomics |
| System and Method for Controlling the Flow of a Conductive Fluid Over a Surface | 6,079,345 | 6/27/2000 | General Atomics |
| Inertial/Magnetic Measurement Device | 7,587,277 | 9/8/2009 | General Atomics |
| Persistent Archives | 6963875 | 11/8/2005 | General Atomics and Regents of the University of California; Confirmatory License assigned to U.S. Air Force |
| Persistent Archives | 7349915 | 3/25/2008 | General Atomics and Regents of the University of California; Confirmatory License assigned to U.S. Air Force |
| Persistent Archives | 7536425 | 5/19/2009 | General Atomics and Regents of the University of California; Confirmatory License assigned to U.S. Air Force |
| Homopolar Machine With Improved Brush Lifetime | 6873078 | 03/29/05 | General Atomics; Confirmatory License assigned to U.S. Navy |

| Title | Patent No. | Issue Date | Assignee/Owner |
|---|------------|------------|--|
| Test Apparatus, System, and Method With A Magnetic Feature | 7642806 | 1/5/2010 | General Atomics; Confirmatory License assigned to U.S. Navy |
| Hydrolysis System & Process For Devices Containing Energetic Material | 7883676 | 2/8/2011 | General Atomics; Earlier Confirmatory License assigned to U.S. Air Force |
| Plasma Mass Filter | 6096220 | 8/1/2000 | General Atomics |
| Centrifugal Filter for Multi-Species Plasma | 6217776 | 4/17/2001 | General Atomics |
| Tandem Mass Filter | 6235202 | 5/22/2001 | General Atomics |
| Plasma Mass Filter | 6248240 | 6/19/2001 | General Atomics |
| Negative Ion Filter | 6251281 | 6/26/2001 | General Atomics |
| Shielded RF Antenna | 6356025 | 3/12/2002 | General Atomics |
| Partially Ionized Plasma Mass Filter | 6398920 | 6/4/2002 | General Atomics |
| Linear Filter | 6403954 | 6/11/2002 | General Atomics |
| Band Gap Plasma Mass Filter | 6719909 | 4/13/2004 | General Atomics |
| Isotope Separator | 6726844 | 4/27/2004 | General Atomics |
| Band Gap Mass Filter with Induced Azimuthal Electric Field | 6939469 | 9/6/2005 | General Atomics |
| Mass Separator with Controlled Input | 6956217 | 10/18/2005 | General Atomics |
| High Throughput Plasma Mass Filter | 6723248 | 4/20/2004 | General Atomics |
| Barrels for Electromagnetic Guns | 7503249 | 3/17/2009 | General Atomics |

Pending U.S. Patent Applications of the Grantor

| Title | Patent Application | Filing Date | Assignee/Owner |
|--|---------------------------|--------------------|-----------------------|
| Controlled System for Supporting Algae Growth with Adsorbed Carbon Dioxide | 14/596,451 | 1/14/2015 | General Atomics |
| Method And System For Growing Microalgae In Expanding Sloped Ponds | 15/258,785 | 9/7/2016 | General Atomics |
| Algae Biofuel Carbon Dioxide Distribution System | 13/589,951 | 8/20/2012 | General Atomics |
| Modular Nuclear Fission Waste Conversion Reactor | 13/566,078 | 8/3/2012 | General Atomics |
| System and Method for Using A Pulse Flow Circulation for Algae Cultivation | 14/270,800 | 5/6/2014 | General Atomics |
| Near Infrared Reflective Coatings, Pigments, and Colored Compositions | 14/620,140 | 2/11/2015 | General Atomics |
| Methods and Systems for use in Laser Machining | 13/708,288 | 12/7/2012 | General Atomics |
| Apparatus and Method For Use In Storing Energy | 13/843,489 | 3/15/2013 | General Atomics |
| Floating Magnetic Antennas | 15/019,903 | 2/9/2016 | General Atomics |
| Tunable Magnetic Antennas Based On Magnetic Field Tuning | 15/182,585 | 6/14/2016 | General Atomics |
| Magnetic Antenna Based On Optical Detection | 15/178,488 | 6/9/2016 | General Atomics |
| Magnetic Antenna Having Magnetoresistive Sensor | 15/175,947 | 6/7/2016 | General Atomics |
| Material Compositions For Lightning Strike Protection | 14/720,707 | 5/22/2015 | General Atomics |
| Rotor Assembly and Method Of | 15/070,833 | 3/15/2016 | General Atomics |

| Title | Patent Application | Filing Date | Assignee/Owner |
|---|--------------------|-------------|--|
| Manufacturing | | | |
| Magnet Gripper and Rotor Assembly Methods and Systems | 15/013,909 | 2/2/2016 | General Atomics |
| Multi-Level High Speed Adjustable Speed Drive (ASD) | 15/067,448 | 3/11/2016 | General Atomics |
| Forming Closely Spaced Annular Internal Corrugations In Circular Waveguides | 15/158,219 | 5/18/2016 | General Atomics |
| Systems and Methods For Lighter-Than Air High Altitude Platforms | 15/157,132 | 5/17/2016 | General Atomics |
| Deformable Magnetic Antennas | 15/368,589 | 12/3/2016 | General Atomics |
| Systems and Methods for Manufacturing Thermoplastic Parts | 62/468,899 | 3/8/2017 | General Atomics |
| Stress Analysis and Probabilistic Assessment Of Multi-Layer Sic-Based Nuclear Fuel Cladding | 62/370,236 | 8/2/2016 | General Atomics |
| Engineered Sic-Sic Composite and Monolithic Sic Layered Structures For Nuclear Fuel Cladding | 62/372,239 | 8/8/2016 | General Atomics |
| Alkali-Vapor Laser With Transverse Pumping | 15/418,560 | 1/27/2017 | General Atomics |
| Magnetic Antenna Structures Having Spatially Varying Profiles | 15/161,141 | 5/20/2016 | General Atomics |
| System and Method for Using A Pulse Flow Circulation for Algae Cultivation | 15/149,717 | 5/9/2016 | General Atomics |
| Method And Apparatus For Inhibiting Formation Of And/or Removing Ice From Aircraft Components | 15/076,598 | 3/21/2016 | General Atomics |
| Preparation of Large Ultra-Thin Free-Standing Polymer Films | 15/130,524 | 4/15/2016 | Lawrence Livermore National Security, LLC; |

A-12.

| Title | Patent Application | Filing Date | Assignee/Owner |
|-------|--------------------|-------------|---|
| | | | Confirmatory License assigned to U.S. DOE |

A-13.

SCHEDULE B
to the Patent and Trademark Security Agreement

Registered U.S. Trademarks of the Borrower

| Mark | Filing Date | Registration No. | Registration Date | Registered Owner |
|----------------------------|-------------|------------------|-------------------|--|
| Blitzer | 11/13/2009 | 3,978,902 | 06/14/2011 | General Atomics |
| CCS Commander | 03/02/2010 | 3,860,188 | 10/12/2010 | General Atomics |
| E-Smart | 07/10/1995 | 2,062,065 | 05/13/1997 | General Atomics |
| GA (Logo) | 05/04/1988 | 1,554,096 | 08/29/1989 | General Atomics |
| GA (Logo) | 05/17/1988 | 1,547,695 | 07/11/1989 | General Atomics |
| General Atomic | 05/13/1960 | 709041 | 12/27/1960 | General Atomics |
| General Atomics | 04/17/1988 | 1,555,093 | 09/05/1989 | General Atomics |
| General Atomics | 05/17/1988 | 1,549,501 | 07/25/1989 | General Atomics |
| Nirvana | 07/27/2000 | 2,778,200 | 10/28/2003 | General Atomics |
| SRB | 06/23/2000 | 2,590,572 | 07/09/2002 | General Atomics |
| Storage Resource Broker | 06/22/2000 | 2,561,263 | 04/16/2002 | General Atomics |
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| TMS3000 | 05/28/1998 | 2,288,741 | 10/26/1999 | General Atomics Electronic Systems, Inc. |

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Pending U.S. Trademark Applications of the Grantor

| Mark | Application No. | Filing Date | Registered Owner |
|-----------------|------------------------|--------------------|-------------------------|
| DataVantyx | 87/202,628 | 10/13/2016 | General Atomics |
| Tungsten Shield | 86/939,839 | 03/14/2016 | General Atomics |
| Wind Defeater | 86/459,227 | 11/19/2014 | General Atomics |

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sf-3761170

RECORDED: 06/20/2017

**TRADEMARK
REEL: 006087 FRAME: 0994**