

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7322920

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NORTHROP GRUMMAN INNOVATION SYSTEMS LLC | 01/11/2021 |
| RECEIVING PARTY DATA | |
| Name: | NORTHROP GRUMMAN SYSTEMS CORPORATION |
| Street Address: | 2980 FAIRVIEW PARK DRIVE |
| City: | FALLS CHURCH |
| State/Country: | VIRGINIA |
| Postal Code: | 22042 |
| PROPERTY NUMBERS Total: 22 | |
| Property Type | Number |
| Patent Number: | 6667713 |
| Patent Number: | 6597258 |
| Patent Number: | 6707350 |
| Patent Number: | 6771222 |
| Patent Number: | 7369624 |
| Patent Number: | 8355359 |
| Patent Number: | 8573124 |
| Patent Number: | 8479557 |
| Patent Number: | 8483888 |
| Patent Number: | 9214736 |
| Patent Number: | 9231691 |
| Patent Number: | 9203156 |
| Patent Number: | 9297627 |
| Patent Number: | 9686008 |
| Patent Number: | 9650995 |
| Patent Number: | 9853356 |
| Patent Number: | 9673522 |
| Patent Number: | 9960301 |
| Patent Number: | 10020576 |
| Patent Number: | 10419105 |

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| Property Type | Number |
| Patent Number: | 10770788 |
| Patent Number: | 10553942 |

CORRESPONDENCE DATA

Fax Number: (612)315-4321

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.

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|--------------------------------|---------------|
| ATTORNEY DOCKET NUMBER: | 5052.0000001 |
| NAME OF SUBMITTER: | SHARI KLOSS |
| SIGNATURE: | /Shari Kloss/ |
| DATE SIGNED: | 05/10/2022 |

Total Attachments: 10

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Patent Assignment

WHEREAS, Northrop Grumman Innovation Systems LLC, a limited liability company with a place of business at 45101 Warp Drive, Dulles, VA 20166 ("Assignor"), owns the patents and patent applications listed in the attached Schedule A, including all continuations, divisions, continuations-in-part, certificates of reexamination, extensions, substitutes, or reissues, any rights of priority resulting from the filing of the patents and the patent applications listed in Schedule A, and the right to sue for past damages, in the United States or any foreign country (hereafter referred to as the "Patents");

AND WHEREAS, Northrop Grumman Innovation Systems LLC exists as a result of a conversion of Northrop Grumman Innovation Systems, Inc. from a corporation to a limited liability company, such conversion occurring on and effective as of July 31, 2020;

AND WHEREAS, Assignor is a wholly-owned subsidiary of Northrop Grumman Systems Corporation, a corporation having a primary place of business at 2980 Fairview Park Drive, Falls Church, VA 22042 ("Assignee");

AND WHEREAS, Assignee desires to acquire the Assignor's entire right, title, and interest in and to the Patents, and Assignor and Assignee have mutually determined that Assignor's assignment of such right, title, and interest will mutually benefit Assignor and Assignee;

AND WHEREAS, Assignee will license Assignor rights in the Patents assigned herein upon execution of this assignment;

NOW, THEREFOR, in exchange for the consideration set forth herein, the receipt and sufficiency of which is hereby acknowledged, the Assignor hereby assigns and transfers Assignor's entire right, title, and interest in and to the Patents, including the right to sue for and collect damages for past infringement, and Assignee hereby accepts the same to be held and enjoyed by the Assignee for its use and enjoyment and for the use and enjoyment of its successors, assigns, or other legal representatives as the same would have been held and enjoyed by the Assignor if the assignment and sale had not been made;

AND the Assignor hereby agrees to do such things and execute such further lawful documents, assurances, applications, and other instruments as may be required to give effective legal and registered title to the Assignee in and to the Patents, all without further consideration, but at the sole expense of Assignee.

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Dated this 11th day of January, 2001.

FOR ASSIGNOR NORTHROP
GRUMMAN INNOVATION SYSTEMS
LLC



Signature

Richard N. Osborne

Print Name

FOR ASSIGNEE NORTHROP
GRUMMAN SYSTEMS CORPORATION



Signature

Sushranta T. Sudarshan

Print Name

Schedule A
Assigned IP

| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|--|--------------------------|---------------------------|-------------------|----------------------|-------------------|
| | United States of America | 15/290,755 | 11-Oct-2016 | | |
| | United States of America | 16/350,312 | 30-Oct-2018 | | |
| | United States of America | 15/290,768 | 11-Oct-2016 | | |
| | United States of America | 16/350,311 | 30-Oct-2018 | | |
| METHODS OF PREPARING NITROCELLULOSE BASED PROPELLANTS AND PROPELLANTS MADE THEREFROM | United States of America | 14/841,151 | 31-Aug-2015 | 9,395,164 | 19-Jul-2016 |
| METHODS OF PREPARING NITROCELLULOSE BASED PROPELLANTS AND PROPELLANTS MADE THEREFROM | United States of America | 15/214,081 | 19-Jul-2016 | 9,885,550 | 06-Feb-2018 |
| METHODS OF PREPARING NITROCELLULOSE BASED PROPELLANTS AND PROPELLANTS MADE THEREFROM | United States of America | 15/654,387 | 19-Jul-2017 | 10,066,911 | 04-Sep-2018 |
| METHODS OF PREPARING NITROCELLULOSE BASED PROPELLANTS AND PROPELLANTS MADE THEREFROM | United States of America | 16/121,456 | 04-Sep-2018 | 10,801,819 | 13-Oct-2020 |
| METHODS OF PREPARING NITROCELLULOSE BASED PROPELLANTS AND PROPELLANTS MADE THEREFROM | United States of America | 17/069,144 | 13-Oct-2020 | | |
| | United States of America | 15/290,844 | 11-Oct-2016 | | |
| PREFRAGMENTED WARHEADS WITH ENHANCED PERFORMANCE | United States of America | 15/466,476 | 22-Mar-2017 | 10,634,472 | 04-Apr-2020 |
| PREFRAGMENTED WARHEADS WITH ENHANCED PERFORMANCE | United States of America | 16/873,516 | 24-Apr-2020 | | |
| PREFRAGMENTED WARHEADS WITH ENHANCED PERFORMANCE | United States of America | 63/120,968 | 03-Dec-2020 | | |
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | United States of America | 13/438,377 | 03-Apr-2012 | 8,483,888 | 09-Jul-2013 |
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | Germany | 12714481.4 | 04-Apr-2012 | 2694374 | 15-Jan-2015 |
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | Spain | 12714481.4 | 04-Apr-2012 | 2694374 | 15-Jan-2015 |
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | France | 12714481.4 | 04-Apr-2012 | 2694374 | 15-Jan-2015 |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|---|----------------------------|---------------------------|-------------------|----------------------|-------------------|
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | United Kingdom | 12714481.4 | 04-Apr-2012 | 2694374 | 15-Jan-2015 |
| EMERGENCY COMMUNICATIONS CHANNEL SYSTEMS AND METHODS FOR SATELLITE COMMAND | Japan | 2014-503939 | 04-Apr-2012 | 6054372 | 09-Dec-2016 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | United States of America | 13/558,080 | 25-Jul-2012 | 9,214,736 | 15-Dec-2015 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Germany | 13745522.6 | 23-Jul-2013 | 2878039 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Spain | 13745522.6 | 23-Jul-2013 | 2878039 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | France | 13745522.6 | 23-Jul-2013 | 2878039 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | United Kingdom | 13745522.6 | 23-Jul-2013 | 2878039 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Italy | 13745522.6 | 23-Jul-2013 | 2878039 | 17-Apr-2012 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Japan | 2015-524375 | 23-Jul-2013 | 6218829 | 25-Oct-23017 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Israel | 236811 | 23-Jul-2013 | 236811 | 29-Mar-2018 |
| SYSTEMS AND METHODS FOR MITIGATING DISTURBANCES IN A DUAL GRIDDED REFLECTOR ANTENNA | Russian Federation | 2015106145 | 23-Jul-2013 | 2640099 | 26-Dec-2017 |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | United States of America | 14/496,071 | 25-Sep-2014 | 9,853,356 | 26-Dec-2017 |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | United States of America | 15/853,441 | 22-Dec-2017 | 10,770,788 | 08-Sep-2020 |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | European Patent Convention | 14851452.4 | 26-Sep-2014 | | |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | India | 201617012119 | 26-Sep-2014 | | |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|--|----------------------------|---------------------------|-------------------|----------------------|-------------------|
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | Japan | 2016-517525 | 26-Sep-2014 | 6771711 | 02-Oct-2020 |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | Israel | 244754 | 26-Sep-2014 | | |
| GROUND-BASED SATELLITE ANTENNA POINTING SYSTEM | Canada | 2,925,575 | 26-Sep-2014 | | |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | United States of America | 14/858,240 | 18-Sep-2015 | 10,046,867 | 14-Aug-2018 |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | United States of America | 16/103,337 | 14-Aug-2018 | 10,745,151 | 18-Aug-2020 |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | United States of America | 19/995,033 | 17-Aug-2020 | | |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | European Patent Convention | 16847550.7 | 19-Sep-2016 | | |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | Japan | 2018-514270 | 19-Sep-2016 | | |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | Israel | 258110 | 19-Sep-2016 | | |
| MANEUVERING SYSTEM FOR EARTH ORBITING SATELLITES WITH ELECTRIC THRUSTERS | Canada | 2999148 | 19-Sep-2016 | | |
| SYSTEMS AND METHODS FOR SATELLITE CONSTELLATION LAUNCH USING AIR-LAUNCHED VEHICLES | United States of America | 14/788,214 | 30-Jun-2015 | 10,029,806 | 24-Jul-2018 |
| SYSTEMS AND METHODS FOR SATELLITE CONSTELLATION LAUNCH USING AIR-LAUNCHED VEHICLES | United States of America | 16/042,606 | 23-Jul-2018 | 10,752,383 | 25-Aug-2020 |
| SYSTEMS AND METHODS FOR SATELLITE CONSTELLATION LAUNCH USING AIR-LAUNCHED VEHICLES | United States of America | 16/998,516 | 20-Aug-2020 | | |
| ELECTRONIC SAFE/ARM SYSTEM AND METHODS OF USE THEREOF | United States of America | 12/778,046 | 11-May-2010 | 8,573,124 | 05-Nov-2013 |
| ELECTRONIC SAFE/ARM SYSTEM AND METHODS OF USE THEREOF | United States of America | 13/858,438 | 08-Apr-2013 | 9,297,627 | 29-Mar-2016 |
| SECONDARY PAYLOAD INTERFACE | United States of America | 12/185,717 | 04-Aug-2008 | 8,355,359 | 15-Jan-2013 |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|---|--------------------------|---------------------------|-------------------|----------------------|-------------------|
| SECONDARY PAYLOAD INTERFACE | United States of America | 13/740,672 | 14-Jan-2013 | 9,231,691 | 05-Jan-2016 |
| SECONDARY PAYLOAD INTERFACE | Belgium | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Switzerland | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Germany | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Denmark | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Spain | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | France | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | United Kingdom | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Italy | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Luxembourg | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Netherlands | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Norway | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Sweden | 09251841.4 | 22-Jul-2009 | 2151930 | 01-May-2019 |
| SECONDARY PAYLOAD INTERFACE | Japan | 2009-0178372 | 22-Jul-2009 | 5277107 | 28-Aug-2013 |
| SECONDARY PAYLOAD INTERFACE | Japan | 2013-106106 | 30-Jul-2009 | 5507739 | 28-May-2014 |
| SECONDARY PAYLOAD INTERFACE | Japan | 2014-0056357 | 30-Jul-2009 | 5676031 | 25-Feb-2015 |
| PROTECTION OF COMMERCIAL COMMUNICATIONS | United States of America | 14/211,271 | 14-Mar-2014 | 9,686,008 | 20-Jun-2017 |
| PROTECTION OF COMMERCIAL COMMUNICATIONS | United States of America | 15/626,852 | 19-Jun-2017 | 10,419,105 | 17-Sept-2019 |
| PROTECTION OF COMMERCIAL COMMUNICATIONS | United States of America | 16/556,592 | 30-Aug-2019 | | |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|---|----------------------------|---------------------------|-------------------|----------------------|-------------------|
| PROTECTION OF COMMERCIAL COMMUNICATIONS | European Patent Convention | 14724854.6 | 14-Mar-2014 | | |
| HYBRID-CYCLE LIQUID PROPELLANT ROCKET ENGINE | United States of America | 14/212,397 | 14-Mar-2014 | 9,650,995 | 16-May-2017 |
| HYBRID-CYCLE LIQUID PROPELLANT ROCKET ENGINE | European Patent Convention | 14721125.4 | 14-Mar-2014 | | |
| COMMUNICATIONS BANDWIDTH ENHANCEMENT USING ORTHOGONAL SPATIAL DIVISION MULTIPLEXING | United States of America | 14/642,225 | 09-Mar-2015 | 9,813,145 | 07-Nov-2017 |
| COMMUNICATIONS BANDWIDTH ENHANCEMENT USING ORTHOGONAL SPATIAL DIVISION MULTIPLEXING | United States of America | 15/80,6081 | 07-Nov-2017 | 10,325,275 | 18-Jun-2019 |
| COMMUNICATIONS BANDWIDTH ENHANCEMENT USING ORTHOGONAL SPATIAL DIVISION MULTIPLEXING | United States of America | 16/441,230 | 14-Jun-2019 | 10,558,986 | 11-Feb-2020 |
| COMMUNICATIONS BANDWIDTH ENHANCEMENT USING ORTHOGONAL SPATIAL DIVISION MULTIPLEXING | United States of America | 16/785,813 | 10-Feb-2020 | | |
| EXPLOSIVE SEPARATING JOINT | United States of America | 16/175,020 | 30-Oct-2018 | 10,739,120 | 11-Aug-2020 |
| CARRIER SUPPRESSION TYPE MODULATOR WITH ENCODED MODULATING SIGNALS | United States of America | 10/856,801 | 01-Jun-2014 | 7,369,624 | 06-May-2008 |
| CARRIER SUPPRESSION TYPE MODULATOR WITH ENCODED MODULATING SIGNALS | France | 505483 | 31-May-2005 | 2871010 | 10-Jul-2009 |
| CARRIER SUPPRESSION TYPE MODULATOR WITH ENCODED MODULATING SIGNALS | United Kingdom | 511099.4 | 31-May-2005 | 2414877 | 26-Jul-2006 |
| CARRIER SUPPRESSION TYPE MODULATOR WITH ENCODED MODULATING SIGNALS | Japan | 2005-161041 | 01-Jun-2005 | 5010812 | 09-Aug-2012 |
| CARRIER SUPPRESSION TYPE MODULATOR WITH ENCODED MODULATING SIGNALS | Japan | 2011-276721 | 01-Jun-2005 | 5404757 | 05-Feb-2014 |
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | United States of America | 13/834,214 | 13-May-2013 | 9,203,156 | 01-Dec-2015 |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|---|----------------------------|---------------------------|-------------------|----------------------|-------------------|
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | United States of America | 14/925,291 | 28-Oct-2015 | 9,673,522 | 06-Jun-2017 |
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | United States of America | 15/615,563 | 06-Jun-2017 | 10,020,576 | 10-Jul-2018 |
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | United States of America | 16/031,499 | 10-Jul-2018 | 10,553,942 | 04-Feb-2020 |
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | European Patent Convention | 14711404.5 | 04-Mar-2014 | | |
| SYSTEMS AND METHODS FOR RECONFIGURABLE FACETED REFLECTOR ANTENNAS | Russian Federation | 2015139703 | 04-Mar-2014 | 2650841 | 17-Apr-2018 |
| METHOD OF MANUFACTURING FLEXIBLE, LIGHTWEIGHT PHOTOVOLTAIC ARRAY | United States of America | 15/076,081 | 21-Mar-2016 | 9,960,301 | 01-May-2018 |
| PCB TRACE-FORMED HIGH PERFORMANCE FREQUENCY DIPLEXER AND METHOD | United States of America | 09/944,781 | 30-Aug-2001 | 6,597,258 | 22-Jul-2003 |
| DISTRIBUTIVE MULTIPLEXER FOR SPACE APPLICATIONS | United States of America | 10/456,317 | 06-Jun-2003 | 6,707,350 | 16-Mar-2004 |
| PHASE-ARRAY ANTENNA DIPLEXING | United States of America | 10/456,760 | 06-Jun-2003 | 6,771,222 | 03-Aug-2004 |
| SELF-MONITORING SATELLITE SYSTEM | United States of America | 09/938,983 | 24-Aug-2011 | 6,667,713 | 23-Dec-2003 |
| SHOCK SIMULATION METHOD AND APPARATUS | United States of America | 12/874,211 | 01-Sep-2010 | 8,479,557 | 09-Jul-2003 |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | United States of America | 15/838,213 | 11-Dec-2017 | 10,054,404 | 21-Aug-2018 |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | United States of America | 16/106,921 | 21-Aug-2018 | 10,323,912 | 18-Jun-2019 |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | United States of America | 16/401,313 | 02-May-2019 | 10,641,570 | 05-May-2020 |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | United States of America | 16/865,705 | 05-Apr-2020 | | |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | Australia | 2017371361 | 11-Dec-2017 | 2017371361 | 14-Nov-2019 |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|--|----------------------------|---------------------------|-------------------|----------------------|-------------------|
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | Australia | 2019257442 | 30-Oct-2019 | | |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | European Patent Convention | 17832617.9 | 11-Dec-2017 | | |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | Korea | 10-2019-7019124 | 11-Dec-2017 | 10-2111243 | 05-May-2020 |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | Saudi Arabia | 519401962 | 11-Dec-2017 | | |
| AREA DENIAL COMMUNICATION LATENCY COMPENSATION | United Arab Emirates | P6000814/2019 | 11-Dec-2017 | | |
| | United States of America | 15/998,269 | 26-Jul-2018 | | |
| | United States of America | 15/998,144 | 09-Jul-2018 | | |
| | United States of America | 16/350,321 | 01-Nov-2018 | | |
| MUNITION WITH CONTROLLED SELF NEUTRALIZATION | United States of America | 16/350,299 | 29-Oct-2018 | 10,648,785 | 12-May-2020 |
| MUNITION WITH CONTROLLED SELF NEUTRALIZATION | United States of America | 16/873,581 | 11-May-2020 | | |
| | United States of America | 16/501,812 | 10-Jun-2019 | | |
| | United States of America | 16/501,859 | 19-Jun-2019 | | |
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| | United States of America | 16/501,814 | 10-Jun-2019 | | |
| | United States of America | 16/501,807 | 10-Jun-2019 | | |
| | United States of America | 16/602,546 | 28-Oct-2019 | | |
| | United States of America | 16/602,682 | 19-Nov-2019 | | |
| | United States of America | 16/501,636 | 14-May-2019 | | |

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| Title | Country | Application Number | Date Filed | Patent Number | Issue Date |
|--------------------|---------------------------|---------------------------|-------------------|----------------------|-------------------|
| SOLAR PANEL MODULE | United States of America | 16/827,699 | 23-Mar-2020 | | |
| SOLAR PANEL MODULE | Patent Cooperation Treaty | PCTUS2020024351 | 23-Mar-2020 | | |
| | United States of America | 16/873,057 | 23-Jan-2020 | | |
| | United States of America | 16/602,796 | 03-Dec-2019 | | |
| | United States of America | 16/602,904 | 20-Dec-2019 | | |
| | United States of America | 16/602,843 | 10-Dec-2019 | | |
| | United States of America | 16/873,118 | 04-Feb-2020 | | |
| | United States of America | 16/873,122 | 05-Feb-2020 | | |
| | United States of America | 16/873,909 | 07-Aug-2020 | | |
| | United States of America | 16/974,169 | 29-Oct-2020 | | |
| | United States of America | 63/000,066 | 26-Feb-2020 | | |
| | United States of America | 63/102,090 | 28-May-2020 | | |
| | United States of America | 63/102,171 | 01-Jun-2020 | | |
| | United States of America | 63/103,302 | 29-Jul-2020 | | |
| | United States of America | 63/103,747 | 20-Aug-2020 | | |
| | United States of America | 63/102,801 | 02-Jul-2020 | | |
| | United States of America | 63/205,043 | 10-Nov-2020 | | |