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# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6929871

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name            | Execution Date |
|-----------------|----------------|
| SUMMIT ESP, LLC | 08/10/2018     |

## **RECEIVING PARTY DATA**

| Name:           | HALLIBURTON ENERGY SERVICES, INC. |
|-----------------|-----------------------------------|
| Street Address: | 3000 N. SAM HOUSTON PARKWAY E.    |
| City:           | HOUSTON                           |
| State/Country:  | TEXAS                             |
| Postal Code:    | 77032-3219                        |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16345154 |

#### **CORRESPONDENCE DATA**

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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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Address Line 2: SUITE 1800

Address Line 4: TYSONS, VIRGINIA 22102-4215

| ATTORNEY DOCKET NUMBER: | 2069464-0436PTUS    |
|-------------------------|---------------------|
| NAME OF SUBMITTER:      | CAMILLE J. BUTLER   |
| SIGNATURE:              | /Camille J. Butler/ |
| DATE SIGNED:            | 09/22/2021          |

# **Total Attachments: 10**

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#### INTELLECTUAL PROPERTY ASSIGNMENT

This Intellectual Property Assignment ("Assignment") is made by Summit ESP, LLC, an Oklahoma limited liability company ("Assignor"), having a correspondence address at 835 West 41<sup>st</sup> Street South, Tulsa, Oklahoma 74107, US, in favor of Halliburton Energy Services, Inc., a Delaware corporation ("Assignee"), having a correspondence address at 3000 N. Sam Houston Parkway E., Houston, Texas 77032-3219, US.

WHEREAS, Assignor desires to transfer to Assignee Assignor's entire right, title and interest to the patents and patent applications listed on Schedule A (the "Patent Property"); and

NOW, THEREFORE, be it known by all whom it may concern that for and in exchange of good and valuable consideration, Assignor agrees to assign and hereby assigns to Assignee for the territory of the United States of America and the entire world Assignor's entire right, title and interest in and to the Patent Property, and in and to any and all patent applications in the United States and all countries foreign to the United States which may claim priority to said Patent Property or which may be directed to the inventions embodied in the Patent Property, said patent applications including without limitation any and all provisionals, non-provisionals, divisionals, continuations, continuations-in-part, utility models, industrial models, and designs, and in and to any and all patents in the United States and all countries foreign to the United States which may be granted therefore and thereon, and in and to any reissues, reexaminations, and extensions of said patents. Assignor hereby transfers and conveys to Assignee any right to recover for past and future infringement of the Patent Property assigned herein.

Assignor HEREBY covenants and agrees that it will at any time, upon the request and at the expense of Assignee, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said Patent Property, applications and patents, and we authorize the Commissioner of Patents and Trademarks, or any other patent-issuing authority in the United States or any other country, to issue said patents associated with said Patent Property to Assignee.

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IN TESTIMONY WHEREOF, I execute this assignment on the date set forth below my name.

Clive D. Menezes Vice President Summit ESP, LLC

THE STATE OF: COUNTY OF:

Texas.

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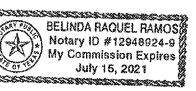
Notary Public:

State of:

My commission expires:

Belenda Rus

July 15, 2021



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# SCHEDULE A

|  |            |             |  |   | DESCRIPTION OF THE PROPERTY OF |
|--|------------|-------------|--|---|--|
|  |            | 3-18-2013   | 2,809,956  | CA  | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID   |
|  |            | 10-29-2013  | 2,831,924  | CA  | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID   |
|  |            | 7-25-2012   | 61/675,578   | SU  | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID   |
|  |            | 3-13-2013   | 13/801,969   | SU  | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID   |
|  |            | 10-24-2013  | 14/062,597   | S   | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASBOUS FLUID   |
| 8-01-2017  | 9,719,523  | 1-22-2015   | 14/602,650   | S   | APPARATUS, SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID   |
| -  |            |             |  |   |  |
|  |            | 12-1-2016   | 2,950,622  | CA  | PRESS-FIT BEARING LOCKING SYSTEM, APPARATUS AND METHOD   |
|  |            | 12-3-2015   | 62/262,781   | US  | PRESS-FIT BEARING LOCKING SYSTEM, APPARATUS AND METHOD   |
| 11-14-2017   | 9,816,519  | 12-1-2016   | 15/367,042   | SO  | PRESS-FIT BEARING LOCKING SYSTEM, APPARATUS AND METHOD   |
|  |            |             |  |   |  |
| 11-10-2015   | 2,807,882  | 2-28-2013   | 2,807,882  | S   | ABRASION RESISTANCE IN WELL FLUID WETTED ASSEMBLIES  |
|  |            | 1-28-2014   | 14/166,214   | SU  | ABRASION RESISTANCE IN WELL FLUID WETTED ASSEMBLIES  |
| terror to the the the the the  |            | 5-22-2012   | 61/650,030   | SU  | ABRASION RESISTANCE IN WELL FLUID WETTED ASSEMBLIES  |
| 4-1-2014   | 8,684,679  | 2-26-2013   | 13/777,870   | SO  | ABRASION RESISTANCE IN WELL FLUID WETTED ASSEMBLIES  |
| Issue Date   | Patent No. | Filing Date | Appln. No  | Country   | 1 2 t t t  |
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APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY

APPARATUS AND SYSTEM FOR SEALING SUBMERSIBLE PUMP

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APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY

APPARATUS AND SYSTEM FOR SEALING SUBMERSIBLE PUMP

APPARATUS, SYSTEMS AND METHODS FOR SEALING SUBMERSIBLE PUMP

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APPARATUS AND SYSTEM FOR SEALING SUBMERSIBLE PUMP

ELECTRIC SUBMERSIBLE PUMP INVERTED SHROUD ASSEMBLY

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ELECTRIC SUBMERSIBLE PUMP INVERTED SHROUD ASSEMBLY

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| Titise.   | Country                                    | Appin. No             | Filing Date   | Patent No.   | Issue Date                             |
| PARATUS. SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID      | 2  | 20131136481 4-19-2013 | 4-19-2013   |  |  |
|   |  |                       |   | i  |  |
| IRUST BEARING SURFACE FOR FLOATER-STYLE CENTRIFUGAL PUMPS | SU   | 15/160,850            | 5-20-2016   | 9,500,202  | 11-22-2016                             |
| FRUST BEARING SURFACE FOR FLOATER-STYLE CENTRIFUGAL PUMPS | die en | 62/164,829 5-21       | 5-21-2015   | ADAMA ADAMA A MANAGARA |  |

|         | ~ Ç∮‡, g.  | Country                                 | Appla. No  | Sing Date  | Patent No.                   | Issue Date   |
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| -       | APPARATUS. SYSTEM AND METHOD FOR PUMPING GASEOUS FLUID     | 2                                       | 20131136481  | 4-19-2013  |                              |  |
|         |  |   |  |            |                              |  |
|         | THRUST BEARING SURFACE FOR FLOATER-STYLE CENTRIFUGAL PUMPS | S                                       | 15/160,850   | 5-20-2016  | 9,500,202                    | 11-22-2016   |
|         | THRUST BEARING SURFACE FOR FLOATER-STYLE CENTRIFUGAL PUMPS |   | 62/164,829   | 5-21-2015  |                              |  |
|         | THRUST BEARING SURFACE FOR FLOATER-STYLE CENTRIFUGAL PUMPS | CA                                      | 2,930,865  | 5-20-2016  | 2,930,865                    | 4-18-2017  |
| ,       |  |   |  |            |                              |  |
|         | ELECTRIC SUBMERSIBLE PUMP INVERTED SHROUD ASSEMBLY         | US                                      | 14/938,439   | 11-11-2015 | 9,638,015                    | 5-02-2017  |

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| bod<br>co-<br>cct   | Country | Appin. No  |  | Falent No.   | issue Date  |
| APPARATUS, SYSTEM AND METHOD FOR A HYDRODYNAMIC THRUST<br>REARING FOR USE IN HORIZONTAL PUMP ASSEMBLIES | SU      | 61/974,907 | 4-3-2014   |  |   |
| ABRASION RESISTANCE IN WELL FLUID WEITED ASSEMBLIES   | US      | 62/210,068 | 8-26-2015  |  |   |
| APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY                            | CA      | 2,887,280  | 4-2-2015   |  | NATIONAL NATIONAL PROPERTY OF THE PROPERTY OF |
| APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY                            | CA      | 2,851,452  | 5-9-2014   | 2,851,452  | 3-15-2016   |
| ABRASION RESISTANCE IN WELL FLUID WEITED ASSEMBLIES   | CA      | 2,940,395  | 8-26-2016  | and the same of th |   |
| APPARATUS, SYSTEM AND METHOD FOR SEALING SUBMERSIBLE PUMP<br>ASSEMBLIES                                 | CA      | 2,911,254  | 5-9-2014   | 2,911,254  | 10-4-2016   |
| APPARATUS AND SYSTEM FOR SEALING SUBMERSIBLE PUMP ASSENBLIES  | CA      | 2,910,931  | 5-9-2014   |  |   |
| APPARATUS AND SYSTEM FOR A THRUST-ABSORBING HORIZONTAL SURFACE PUMP ASSEMBLY                            | 8       | 14100956   | 5-9-2014   | 14100956   | 5-29-2015   |

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CENTRIFUGAL PUMP FOR HANDLING ABRASIVE-LADEN FLUID

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CENTRIFUGAL PUMP FOR HANDLING ABRASIVE-LADEN FLUID

CENTRIFUGAL PUMP FOR HANDLING ABRASIVE-LADEN FLUID

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|---|--------|------------------------|--|--|---|
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS TO LIQUID RATIOS IN SUBMERSIBLE PUMP APPLICATIONS | US     | 14/696,537             | 4-27-2015  | 9,932,806  | 4-3-2018                                |
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS TO LIQUID RATIOS IN SUBMERSIBLE PUMP APPLICATIONS | US     | 61/985,044             | 4-28-2014  | egriptive sprayer er and a second designation of the second designatio |   |
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS TO LIQUID RATIOS IN SUBMERSIBLE PUMP APPLICATIONS | CA     | 2,889,539              | 4-27-2015  |  |   |
|   |        |                        |  |  | A A C W W W W W W W W W W W W W W W W W |
| CENTRIFUGAL PUMP IMPELLER SUPPORT SYSTEM AND APPARATUS  | US     | 14/796,610             | 7-10-2015  | 9,677,560  | 6-13-2017                               |
| CENTRIFUGAL PUMP IMPELLER SUPPORT SYSTEM AND APPARATUS  | SU     | 62/023,550             | 7-11-2014  | TOTAL STATE OF THE |   |
|   |        |                        | K ALILIA (A. P. A. |  |   |
| APPARATUS, SYSTEM AND METHOD FOR MEASURING STRAIGHTNESS OF COMPONENTS OF ROTATING ASSEMBLIES    | US     | 13/796,470             | 3-12-2013  | 9,046,354  | 6-2-2015                                |
| APPARATUS, SYSTEM AND METHOD FOR MEASURING STRAIGHTNESS OF COMPONENTS OF ROTATING ASSEMBLIES    | Sn     | 61/770,129             | 2-27-2013  |  |   |
| APPARATUS, SYSTEM AND METHOD FOR MEASURING STRAIGHTNESS OF COMPONENTS OF ROTATING ASSEMBLIES    | ÇA     | 2.809,620              | 3-15-2013  | Andrews and the state of the st |   |
|   |        |                        |  |  |   |
| MOTOR SHROUD FOR AN ELECTRIC SUBMERSIBLE PUMP   | SU     | 14/590,775             | 1-6-2015   | 9,175,692  | 11-3-2015                               |
| MOTOR SHROUD FOR AN ELECTRIC SUBMERSIBLE PUMP   | Sn     | 61/924,836<br>1-8-2014 |  |  |   |
| MOTOR SHROUD FOR AN ELECTRIC SUBMERSIBLE PUMP   | CA     | 2,876,901<br>1-7-2015  |  | Andrew All (1974) (1974 |   |
|   |        |                        |  | and the same of th | AND |
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS INTAKE IN HORIZONTAL SUBMERSIBLE PUMP ASSEMBLIES  | S'n    | 14/303,116             | 6-12-2014  | 8,919,432  | 12-30-2014                              |
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS INTAKE IN HORIZONTAL SUBMERSIBLE PUMP ASSEMBLIES  | US     | 61/834,734             | 6-13-2013  |  |   |

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| 2007<br>2007<br>2007   | Country                                      | Appin. No  | Filme Date   | Patent No.   | issue Date   |
| APPARATUS, SYSTEM AND METHOD FOR REDUCING GAS INTAKE IN HORIZONTAL SUBMERSIBLE PUMP ASSEMBLIES | CA   | 2,854,108  | 6-12-2014  | 2,854.108  | 6-2-2015   |
|  |  |            |  |  |  |
| MODULAR INTAKE FILTER SYSTEM, APPARATUS AND METHOD   | US   | 14/469,353 | 8-26-2014  |  |  |
| MODULAR INTAKE FILTER SYSTEM, APPARATUS AND METHOD   | US   | 61/870,635 | 8-27-2013  |  |  |
| MODULAR INTAKE FILTER SYSTEM, APPARATUS AND METHOD   | CA   | 2,860,815  | 8-27-2014  |  |  |
|  |  |            | 1  |  |  |
| FLUID MOVING APPARATUS AND SYSTEM FOR AN ELECTRIC SUBMERSIBLE GAS SEPARATOR                    | US   | 16/025,888 | 7-2-2018   |  | A THE STREET WHEN THE RESIDENCE OF THE STREET, AND THE STREET, AND THE STREET, AND THE STREET, AND THE STREET,   |
| FLUID MOVING APPARATUS AND SYSTEM FOR AN ELECTRIC SUBMERSIBLE GAS SEPARATOR                    | SO   | 62/531,689 | 7-12-2017  |  | PROPERTY OF THE PROPERTY OF TH |
|  |  |            |  |  | Programmental and the second   |
| RETAINING RING ANTI-MIGRATION SYSTEM AND METHOD  | Sn   | 62/500,386 | 5-2-2017   |  |  |
| RETAINING RING ANTI-MIGRATION SYSTEM AND METHOD  | PCT  | US18/25728 | 4-2-2018   |  |  |
|  |  |            |  |  |  |
| DIFFUSER ANTI-ROTATION SYSTEM AND APPARATUS  | S  | 62/458,263 | 2-13-2017  |  |  |
| DIFFUSER ANTI-ROTATION SYSTEM AND APPARATUS  | PCT  | US18/17443 | 2-8-2018   |  |  |
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| ABRASIVE HANDLING SUBMERSIBLE PUMP ASSEMBLY DIFFUSER   | SU   | 14/550,333 | 11-21-2014   | 9,039,356  | 5-26-2015  |
| ABRASIVE HANDLING SUBMERSIBLE PUMP ASSEMBLY DIFFUSER   | Sn   | 14/682,794 | 11-21-2014   | 9,200,642  | 12-1-2015  |
| SCHEDUL): A – Page 5   |  |            |  |  |  |

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| 80° 20° 20° 20° 20° 20° 20° 20° 20° 20° 2              | Country | Appla. No  | riling Bate                                   | Patent No.                              | Issue Date   |
| ABRASIVE HANDLING SUBMERSIBLE PUMP ASSEMBLY DIFFUSER   | US      | 61/908,638   | 11-25-2013                                    |   |  |
| ABRASIVE HANDLING SUBMERSIBLE PUMP ASSEMBLY DIFFUSER   | CA      | 2,871,970  | 11-21-2014                                    | 2,871,970                               | 7-14-2015  |
|  |         |  |   |   |  |
| PRESS-FIT THRUST BEARING SYSTEM AND APPARATUS          | US      | 15/912,321   | 3-5-2018                                      |   |  |
| PRESS-FIT THRUST BEARING SYSTEM AND APPARATUS          | US      | 62/482,061   | 4-5-2017                                      | newferenegerenningsbibbibbibbibbib      |  |
| PRESS-FIT THRUST BEARING SYSTEM AND APPARATUS          | PCT.    | US18/20954   | 3-5-2018                                      |   |  |
|  |         |  |   |   | Andrew Communication of the Co |
| BUSHING ANTI-ROTATION SYSTEM AND APPARATUS             | SO      | 15/651,907   | 7-17-2017                                     |   |  |
| BUSHING ANTI-ROTATION SYSTEM AND APPARATUS             | Sn      | 62/363,723   | 7-18-2016                                     |   |  |
| BUSHING ANTI-ROTATION SYSTEM AND APPARATUS             | CA      | 2,974,121  | 7-18-2017                                     |   |  |
|  |         |  |   |   |  |
| ELECTRIC SUBMERSIBLE PUMP DUAL GAS AND SAND SEPARATOR  | Sn      | 62/444,927   | 1-11-2017                                     |   |  |
| ELECTRIC SUBMERSIBLE PUMP DUAL GAS AND SAND SEPARATOR  | PCT     | US18/13269   | 1-11-2018                                     |   |  |
|  |         |  |   |   |  |
| TORQUE TRANSMITTING KEY FOR ELECTRIC SUBMERSIBLE PUMPS | SU      | 15/677,764   | 8-15-2017                                     |   |  |
| TORQUE TRANSMITTING KEY FOR ELECTRIC SUBMERSIBLE PUMPS | SD      | 62/375,272   | 8-15-2016                                     |   |  |
| TORQUE TRANSMITTING KEY FOR ELECTRIC SUBMERSIBLE PUMPS | CA      | 2,976,586  | 8-15-2017                                     |   |  |

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|---|---------|--|-------------|--|--|
| APPARATUS, SYSTEM AND METHOD FOR FLOW RATE HARMONIZATION IN   | US      | 62/470,022   | 3-10-2017   |  |  |
| APPARATUS, SYSTEM AND METHOD FOR FLOW RATE HARMONIZATION IN ELECTRIC SUBMERSIBLE PUMP GAS SEPARATORS  | PCT     | US18/20716   | 3-2-2018    |  | BES II III II - III II - III II - III II   |
| Agencies and an application of the state of |         |  |             |  |  |
| ELECTRIC SUBMERSIBLE PUMP INTAKE SYSTEM, APPARATUS, AND   | SU      | 15/792,525   | 10-24-2017  |  |  |
| ELECTRIC SUBMERSIBLE PUMP INTAKE SYSTEM, APPARATUS, AND METHOD  | SU      | 62/412,382   | 10-25-2016  |  |  |
|   |         |  |             | A ANGRESS VANA A ANGRA DE PERONDENTAL DE L'ANGRES DE L |  |
| FALLBACK PREVENTION VALVE APPARATUS, SYSTEM AND METHOD  | SU      | 62/524,249   | 6-23-2017   |  |  |
| FALLBACK PREVENTION VALVE APPARATUS, SYSTEM AND METHOD  | PCT     | US18/33787   | 5-22-2018   |  |  |
|   |         |  |             |  | A CONTRACTOR OF THE CONTRACTOR |
| COMPLIANT KEYWAY FOR AN ELECTRIC SUBMERSIBLE PUMP BEARING   | SÜ      | 62/514,597   | 6-2-2017    |  |  |
| COMPLIANT KEYWAY FOR AN ELECTRIC SUBMERSIBLE PUMP BEARING SLEEVE  | PCT     | US18/30305   | 4-30-2018   |  |  |
|   |         | The second secon |             |  |  |
| ELECTRIC SUBMERSIBLE PUMP GAS SEPARATOR   | SO      | 62/472,683   | 3-17-2017   | The state of the s |  |
| ELECTRIC SUBMERSIBLE PUMP GAS SEPARATOR   | PCT     | US18/22242   | 3-13-2018   | e de la company  |  |
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| TORQUE TRANSFER SYSTEM FOR CENTRIFUGAL PUMPS  | S       | 15/823,773   | 11-28-2017  |  |  |
| TORQUE TRANSFER SYSTEM FOR CENTRIFUGAL PUMPS  | US      | 62/427,147   | 11-28-2016  |  |  |
| SCHEDULE A - Page 7   |         |  |             |  |  |

| SCHEDULE A |
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|  |  | 5-29-2018  | US18/34938 | PCT                                     | INDUCTIVELY COUPLED SENSOR AND SYSTEM FOR USE THEREOF  |
|  | The state of the s |  |            |   |  |
|  |  | 3-4-2016   | 2,943,410  | CA                                      | TORQUE TRANSMITTING COUPLING FOR AN ELECTRICAL SUBMERSIBLE PUMP EQUIMENT STRING  |
|  |  | 8-30-2017  | 62/551,850 | US                                      | CROSSOVER SYSTEM AND APPARATUS FOR AN ELECTRIC SUBMERSIBLE GAS SEPARATOR   |
|  |  | 10-20-2017   | 15/789,175 | US                                      | CENTRIFUGAL PUMP SEALING SURFACES  |
| 5-22-2018  | 9,976,602  | 2-23-2016  | 15/051,179 | Sn                                      | TORQUE TRANSMITTING COUPLING FOR AN ELECTRICAL SUBMERSIBLE PUMP EQUIMENT STRING  |
|  |  |  |            |   | Annual to the state of the stat |
| - Proprietation - Proprietatio |  | 5-10-2017  | US17/32038 | PCT                                     | APPARATUS, SYSTEM AND METHOD FOR LIVE WELL ARTIFICIAL LIFT COMPLETION  |
|  |  | 8-3-2018   | 16/054,718 | US                                      | APPARATUS, SYSTEM AND METHOD FOR LIVE WELL ARTIFICIAL LIFT COMPLETION  |
|  |  | 5-31-2016  | 62/335,068 | SS                                      | APPARATUS, SYSTEM AND METHOD FOR LIVE WELL ARTIFICIAL LIFT COMPLETION  |
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| Issue Date   | Patent No.   | Filing Date  | Appin, No  | Country                                 |  |
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