

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7642088

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT	
EFFECTIVE DATE:	11/16/2021	
CONVEYING PARTY DATA		
Name		Execution Date
AMERIFORGE GROUP INC.		03/24/2022
RECEIVING PARTY DATA		
Name:	GRANT PRIDECO, INC.	
Street Address:	7909 PARKWOOD CIRCLE DRIVE	
City:	HOUSTON	
State/Country:	TEXAS	
Postal Code:	77036	
PROPERTY NUMBERS Total: 26		
Property Type	Number	
Application Number:	61791222	
Application Number:	61819108	
Application Number:	61819210	
Application Number:	61969579	
Application Number:	62027518	
Application Number:	62482531	
Application Number:	62482551	
Application Number:	62482580	
Application Number:	10073551	
Application Number:	14776674	
Application Number:	14888884	
Application Number:	15910902	
Application Number:	16906725	
Application Number:	15596781	
Application Number:	15910770	
Application Number:	16512761	
Application Number:	15128770	
Application Number:	15327949	
Application Number:	15947264	

Property Type	Number
Application Number:	15947244
Application Number:	16863672
Application Number:	15947266
Application Number:	16841282
Application Number:	17347329
Application Number:	17088921
Application Number:	14888894

CORRESPONDENCE DATA

Fax Number: (888)333-9698

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.

Phone: 281-362-2839

Email: docketing@angeloip.com

Correspondent Name: BASIL M. ANGELO

Address Line 1: 21 WATERWAY AVENUE, SUITE 300

Address Line 4: THE WOODLANDS, TEXAS 77380

ATTORNEY DOCKET NUMBER:	VARIOUS 1185
NAME OF SUBMITTER:	BASIL M. ANGELO
SIGNATURE:	/Basil M. Angelo/
DATE SIGNED:	11/12/2022

Total Attachments: 86

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**AMENDED AND RESTATED
INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT**

THIS AMENDED AND RESTATED INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this “Agreement”) is dated March 3, 2022, but made and entered effective as of November 16, 2021 (the “Effective Date”) by and among:

- (a) Ameriforge Group Inc. d/b/a AFGlobal Corporation, a Texas corporation (“US Assignor”);
- (b) Managed Pressure Operations Pte. Ltd., a company organized in Singapore (“Singapore Assignor”); each of US Assignor and Singapore Assignor, an “Assignor”, and together, “Assignors”); and
- (c) Grant Prideco, Inc., a Delaware corporation (“Assignee”).

Each Assignor and Assignee is a “Party” and are together, the “Parties.”

RECITALS

WHEREAS, on November 16, 2021, Affiliates of Assignors and Assignee entered into that certain Master Purchase Agreement, pursuant to which Assignors and Affiliates of Assignors sold certain assets from its global Offshore Oil & Gas business to Assignee and Affiliates of Assignee (the “Purchase Agreement”);

WHEREAS, capitalized terms used but not defined in this Agreement have the meanings ascribed to them in the Purchase Agreement;

WHEREAS, under the Purchase Agreement, Sellers agreed to assign the Owned Intellectual Property to Buyers;

WHEREAS, on November 16, 2021, the Parties entered into that certain Intellectual Property Assignment Agreement, pursuant to which Assignors assigned certain trademarks, service marks, design marks, and logos, as well as applications, registrations, and common law rights related to the foregoing, together with the goodwill associated therewith, and certain patents and patent applications (the “Original Agreement”);

WHEREAS, the Parties have discovered that the lists of trademarks, patents, and patent applications attached to the Original Agreement were incomplete, and thus the Parties desire to amend and restate the Original Agreement in its entirety by entering into this Agreement, effective as of the Closing Date; and

WHEREAS, to give effect to the terms of the terms of the Purchase Agreement, Sellers agreed to cause Assignors to assign certain trademarks, service marks, design marks, and logos, as well as applications, registrations, and common law rights related to the foregoing as set forth in **Exhibit A** (the “Assigned Marks”), together with the goodwill associated therewith, and certain patents and patent applications as set forth in **Exhibit B** (the “Assigned Patents”, and together with the Assigned Marks, the “Assigned IP”), to Assignee, pursuant to the terms and subject to the conditions of this Agreement.

NOW, THEREFORE, in consideration of mutual promises in this Agreement and the Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged by the Parties, the Parties agree as follows:

AGREEMENT

1. Assigned Marks. Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors’ entire right, title, and interest in and to the Assigned Marks, together with the good will of Assignors’ businesses in which the Assigned Marks are used, or with that part of the good will of such businesses

connected with the use of and symbolized by the Assigned Marks, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect, including all rights of priority associated with the foregoing, and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors if this Agreement had not been executed, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and remedies recoverable thereby, whether at law or in equity), with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.

- 1.1. Assignee may record the Memorandum of Trademark Assignment attached as **Exhibit C** as it deems necessary and at its sole expense. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to perfect this assignment (at Assignee's sole cost and expense).
- 1.2. On and after the Effective Date, Assignors acknowledge that Assignee is the owner of all right, title, and interest in and to the Assigned Marks, and Assignors further acknowledge that they have no ownership interest in, and will not use in any way, the Assigned Marks and will not acquire any ownership interest in the Assigned Marks by reason of this Agreement. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to secure trademark registration or other intellectual-property protection for the Assigned Marks (at Assignee's sole cost and expense).
- 1.3. Assignors will not at any time do, will not assist another person or entity to do, any act or thing that would, would seek to, or would reasonably be likely to, impair or interfere with the rights of Assignee in and to the Assigned Marks or adversely affect the validity of the Assigned Marks, including opposition, cancellation, or concurrent use proceedings.
2. **Assigned Patents.** Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors' entire right, title, and interest in and to the Assigned Patents, including any and all continuations, divisionals, continuations in part applications, renewals, reexaminations, and extensions of each such Assigned Patent, together with all rights of registration, maintenance, and protection thereof in any form, all rights to income, royalties, damages, and payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity) involving such Assigned Patents.
 - 2.1. Assignee will record the Memorandum of Patent Assignment attached as **Exhibit D** as it deems necessary and at its sole expense. Assignors will take additional steps and sign additional documents as reasonably requested by Assignors to perfect this assignment (at Assignee's sole cost and expense).
 - 2.2. On and after the Effective Date, Assignors acknowledge that Assignee is the owner of all right, title, and interest in and to the Assigned Patents, and Assignors further acknowledge that they have no ownership interest in, and will not make, use, sell, offer to sell, or import any product, system, process, or method to the extent infringing any valid and unexpired claim of, the Assigned Patents and will not acquire any ownership interest in the Assigned Patents by reason of this Agreement. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to secure patent registration or other intellectual-property protection for the Assigned Patents (at Assignee's sole cost and expense).

- 2.3. Assignors will not at any time do, will not assist another person or entity to do, any act or thing that would, would seek to, or would reasonably be likely to, impair or interfere with the rights of Assignee in and to the Assigned Patents or adversely affect the validity of the Assigned Patents, including any re-examination, *inter partes* review, post-grant review, or derivation proceeding.
3. Delivery of Documentation. Assignors undertake to hand over to Assignee, promptly after the Effective Date (and in no event later than thirty (30) days after the Effective Date), all books, records, inventors' notebooks, laboratory notebooks and other similar documentation, relating to the Assigned Patents that are in Assignors' possession and control (the "Documentation").
4. Additional Intellectual Property Rights. If it is discovered after the Effective Date that an Affiliate of the Assignors that is not party to this Agreement owns any Intellectual Property Rights that constitute Owned Intellectual Property, Assignors agree to promptly procure the assignment by such Affiliate to Assignee at Assignors' sole cost and expense
5. Further Assurances. In addition to the foregoing:
- 5.1. Assignors further agree to (at Assignee's sole cost and expense): (a) for a period of one (1) year after the Effective Date, cooperate with Assignee in the prosecution and maintenance of the rights associated with the Assigned IP, including foreign counterparts; (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully and reasonably may request to maintain the Assigned IP in any and all countries; and
- 5.2. If certain Assigned Marks or Assigned Patents are still registered under a former company's name of Assignors or any Affiliate of AFG Holdings, Inc., or if the chain of title at the United States Patent and Trademark Office (USPTO) does not properly reflect ownership of the Assigned IP in the assignment records of the USPTO in the name of one or more of Assignors, Assignors shall promptly carry out, at Assignors' sole cost and expense, the necessary steps and formalities, including filing the chain of title documents, to bring the chain of title in the assignment records of the USPTO current to Assignors. As soon as title has been officially registered, Assignors shall inform Assignee thereof.
6. Assignment. The rights and obligations of Assignors, on the one hand, and Assignee, on the other hand, shall not be assignable or otherwise transferable without the prior written consent of the other, except that all rights hereunder shall inure to the benefit of any successor-in-interest.
7. Notices. All notices or other communications must be in writing and may be given by registered mail, email, or personal delivery. Notices shall be effective upon receipt by the Party notified. All notices shall be sent to the addresses set forth below:

For Notice to Assignors:

AFG Holdings, Inc.
19450 State Hwy 249, Suite 500
Houston, TX 77070
Attn: Tom Giles
Email: tgiles@afglobalcorp.com

For Notice to Assignee:

Grant Prideco, Inc.
c/o National Oilwell Varco, L.P.
7909 Parkwood Circle Drive
Houston, Texas 77036
Email: blake.mccarthy@nov.com; pete.vranderic@nov.com; carol.smith@nov.com
Attention: Corporate Development

8. Governing Law. The validity, interpretation and enforcement of this Agreement will be governed by the laws of the State of Texas without regard to conflicts of law principles that would require application of any other law. Any action or proceeding arising out of or relating to this Agreement must be brought in a state or federal court sitting in Montgomery County, Texas and each of the Parties irrevocably submits to the exclusive jurisdiction of each such court in any such action or proceeding and waives any objection it may now or hereafter have to venue or convenience of forum.
9. Modification of Agreement and Waiver. This Agreement may not be amended except by a writing executed by the Parties. Failure of a Party to enforce one or more of the provisions of this Agreement or to exercise any option or other rights hereunder or to require at any time performance or any of the obligations hereof will not be construed to be a waiver of such provisions by such Party nor to, in any way, affect the validity of this Agreement or such Party's right thereafter to enforce each and every provision of this Agreement, nor to preclude such Party from taking any other action at any time which it would legally be entitled to take.
10. Entire Agreement. The Parties acknowledge and agree that this Agreement is entered into pursuant to the Purchase Agreement, to which reference is made for a further statement of the rights and obligations of Assignors and Assignee with respect to the Assigned IP. The representations, warranties, covenants, agreements, and indemnities contained in the Purchase Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.
11. Transaction Document. This Assignment constitutes a Transaction Document for the purposes of the Purchase Agreement and the other Transaction Documents.

[Signature pages follow.]

IN WITNESS WHEREOF, this Agreement is executed as of the Effective Date.

ASSIGNORS:

MANAGED PRESSURE OPERATIONS PTE. LTD.

By: [Signature]

Name: THOMAS E. GILES

Title: DIRECTOR

AMERIFORGE GROUP INC. D/B/A AFGLOBAL CORPORATION

By: [Signature]

Name: THOMAS E. GILES

Title: VP & GENERAL COUNSEL

STATE OF TEXAS

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§
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COUNTY OF HARRIS

BEFORE ME, Pam Grigg, on this day personally appeared THOMAS E. GILES, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the DIRECTOR & VP & GENERAL COUNSEL of Managed Pressure Operations Pte. Ltd. and Ameriforge Group Inc. D/B/A AFGlobal Corporation for the purposes and consideration therein expressed, on behalf of said entities.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 24th day of March, 2022.

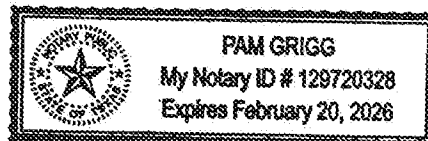
[Signature]

Printed Name: Pam Grigg

Notary Public in and for the State of Texas

My Commission Expires:

2-20-2026



[SIGNATURE PAGE TO AMENDED AND RESTATED
INTELLECTUAL PROPERTY ASSIGNMENT]

PATENT
REEL: 061932 FRAME: 0009

ASSIGNEE:

GRANT PRIDECO, INC.

By: Brigitte M. Hunt

Name: Brigitte M. Hunt

Title: Vice President and Assistant Secretary

STATE OF TEXAS

§
§
§

COUNTY OF HARRIS

BEFORE ME, Elizabeth Cook, on this day personally appeared Brigitte M. Hunt, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same as the Vice President and Assistant Secretary of Grant Prideco, Inc., a Delaware corporation, for the purposes and consideration therein expressed, on behalf of said entities.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this 7 day of March 2022.

Elizabeth Cook
Printed Name: Elizabeth Cook

Notary Public in and for the State of Texas

My Commission Expires:

18 July 2024

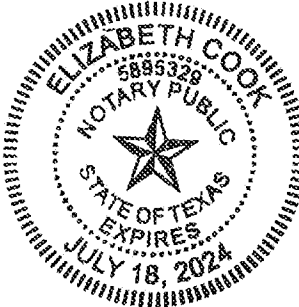


EXHIBIT A
ASSIGNED MARKS AND APPLICATIONS
[See attached.]

[EXHIBIT A TO AMENDED AND RESTATED
INTELLECTUAL PROPERTY ASSIGNMENT]

PATENT
REEL: 061932 FRAME: 0011

Common Law Trademark		Goods
Ncontrol	NControl™ MPD platform fully integrates monitoring and live data analytics with MPD system control and rig automation. This platform serves as a communication hub between subsea and surface MPD equipment, the rig's drilling control system, and third-party equipment and software. NControl™ interfaces with other AFGlobal and third-party MPD equipment to safely and effectively operate in applied surface back pressure (ASBP), pressure mud cap drilling (PMCD), riser gas handling (RGH), and conventional drilling modes.	
AutoACD	AutoACD™ software package program quickly integrates into the NControl™ MPD platform for safer, more efficient drilling. This program works with all existing active control devices (ACD) and operates on a feedback loop, constantly monitoring and adjusting for faster, better decisions on the well. When easily accessible information is needed outside basic traditional parameters—beyond setpoint control—the AutoACD™ program optimizes data in the same way 'autocorrect' simplifies word processing. This program is predictive in nature, commands and minimizes downtime, reduces the crew workload, and promotes safety.	
SafeStab		

EXHIBIT B
ASSIGNED PATENTS AND APPLICATIONS

[See attached.]

**[EXHIBIT B TO AMENDED AND RESTATED
INTELLECTUAL PROPERTY ASSIGNMENT]**

PATENT
REEL: 061932 FRAME: 0013

Title	Country	Application No.	Filing Date	Publication No.	Patent No.	Owner
SEAL CONDITION MONITORING	Brazil	BR 11 2020 011247-0	06/04/20			Ameriforge Group, Inc.
SEAL CONDITION MONITORING	Canada	3084979	06/05/20			Ameriforge Group, Inc.
SEAL CONDITION MONITORING	EPO	18888557.8	12/11/18	3701123		Ameriforge Group, Inc.
SEAL CONDITION MONITORING	WIPO	PCT/US2018/064839	12/11/18			Ameriforge Group, Inc.
SEAL CONDITION MONITORING	United States	16/896,612	06/09/20	20200300051		Ameriforge Group, Inc.
SEAL CONDITION MONITORING	United States	16/896,625	06/09/20	20200300052		Ameriforge Group, Inc.
SEAL ASSEMBLY LIFE MONITORING WHILE DRILLING AND SEAL ASSEMBLY FINGER PRINTING OFFLINE	United States	62/597,601	12/12/17			Ameriforge Group, Inc.
SEAL CONDITION MONITORING	United States	62/747,086	10/17/18			Ameriforge Group, Inc.
RISERLESS DRILLING SYSTEM	United States	62/616,227	01/11/18			AFGlobal Corporation
IMPROVED ROTATING CONTROL DEVICE FOR JACKUP RIGS	Brazil	BR 11 2020 017942-6	09/02/20			Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR JACKUP RIGS	Canada	3091991	08/20/20			Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR JACKUP RIGS	EPO	19796122.0	08/19/20	3788230		Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR JACKUP RIGS	WIPO	PCT/US2019/030016	04/30/19			Ameriforge Group, Inc.
ROTATING CONTROL DEVICE FOR JACKUP RIGS	United States	16/984,831	08/04/20	20200362659	11008825	Ameriforge Group, Inc.

<i>Title</i>	<i>Country</i>	<i>Application No.</i>	<i>Filing Date</i>	<i>Publication No.</i>	<i>Patent No.</i>	<i>Owner</i>
ROTATING CONTROL DEVICE FOR JACKUP RIGS	United States	17/241,711	04/27/21	20210246754	11248434	Ameriforge Group, Inc.
ROTATING CONTROL DEVICE FOR JACKUP RIGS	United States	17/567,469	01/03/22			Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR JACKUP RIGS	United States	62/665,879	05/02/18			Ameriforge Group, Inc.
ROTATING CONTROL DEVICE FOR LAND RIGS	Brazil	BR 11 2020 017946-9	09/02/20			Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR LAND RIGS	Canada	3091994	08/20/20			Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR LAND RIGS	EPO	19796305.1	04/30/19	3788229		Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR LAND RIGS	WIPO	PCT/US2019/030042	04/30/19			Ameriforge Group, Inc.
ROTATING CONTROL DEVICE FOR LAND RIGS	United States	16/984,874	08/04/20	20200362651	10995573	Ameriforge Group, Inc.
ROTATING CONTROL DEVICE FOR LAND RIGS	United States	17/212,515	03/25/21	20210207447		Ameriforge Group, Inc.
IMPROVED ROTATING CONTROL DEVICE FOR LAND RIGS	United States	62/665,885	05/02/18			Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD 1	United States	62/517,992	06/12/17			Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	Brazil	BR 11 2019 026145-1	12/10/19			Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	Canada	3065187	11/26/19			Ameriforge Group, Inc.

<i>Title</i>	<i>Country</i>	<i>Application No.</i>	<i>Filing Date</i>	<i>Publication No.</i>	<i>Patent No.</i>	<i>Owner</i>
DUAL GRADIENT DRILLING SYSTEM AND METHOD	EPO	18818966.6	06/11/18	3638869		Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	WIPO	PCT/US2018/036968	06/11/18			Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	United States	16/249,089	01/16/19	20190145203	10655410	Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	United States	16/249,135	01/16/19	20190145204	10577878	Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD	United States	16/249,186	01/16/19	20190145205	10590721	Ameriforge Group, Inc.
DUAL GRADIENT DRILLING SYSTEM AND METHOD 2	United States	62/560,153	09/18/17			Ameriforge Group, Inc.
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	Brazil	BR 11 2021 007169-5	04/15/21			Ameriforge Group, Inc.
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	Canada	3116658	04/15/21			Ameriforge Group, Inc.
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	EPO	19873685.2	09/16/19	3867490		Ameriforge Group, Inc.

<i>Title</i>	<i>Country</i>	<i>Application No.</i>	<i>Filing Date</i>	<i>Publication No.</i>	<i>Patent No.</i>	<i>Owner</i>
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	WIPO	PCT/US2019/051234	09/16/19			Ameriforge Group, Inc.
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	United States	17/233,082	04/16/21	20210230963		Ameriforge Group, Inc.
ANNULAR SEALING SYSTEM AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINT	United States	62/748,232	10/19/18			Ameriforge Group, Inc.
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	Brazil	BR 11 2021 007976-9	04/27/21			Ameriforge Group, Inc.
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	Canada	3118413	04/30/21			Ameriforge Group, Inc.
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	EPO	19880231.6	09/16/19	3874119		Ameriforge Group, Inc.

<i>Title</i>	<i>Country</i>	<i>Application No.</i>	<i>Filing Date</i>	<i>Publication No.</i>	<i>Patent No.</i>	<i>Owner</i>
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	WIPO	PCT/US2019/051245	09/16/19			Ameriforge Group, Inc.
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	United States	17/244,078	04/29/21	20210246755		Ameriforge Group, Inc.
STATIC ANNULAR SEALING SYSTEMS AND INTEGRATED MANAGED PRESSURE DRILLING RISER JOINTS FOR HARSH ENVIRONMENTS	United States	62/754,915	11/02/18			Ameriforge Group, Inc.
IMPROVED CLOSED-LOOP HYDRAULIC DRILLING	WIPO	PCT/US2020/032481	05/12/20			Ameriforge Group, Inc.
CLOSED-LOOP HYDRAULIC DRILLING	United States	17/523,506	11/10/21			Ameriforge Group, Inc.
IMPROVED CLOSED-LOOP HYDRAULIC DRILLING	United States	17/523,570	11/10/21			Ameriforge Group, Inc.
IMPROVED CLOSED-LOOP HYDRAULIC DRILLING	United States	62/848,804	05/16/19			Ameriforge Group, Inc.
INTERMITTENT WELL STATE SAMPLING IN MANAGED PRESSURE DRILLING APPLICATIONS	WIPO	PCT/US2020/053009	09/28/20			Ameriforge Group, Inc.
INTERMITTENT WELL STATE SAMPLING IN MANAGED PRESSURE DRILLING APPLICATIONS	United States	62/913,286	10/10/19			Ameriforge Group, Inc.

<i>Title</i>	<i>Country</i>	<i>Application No.</i>	<i>Filing Date</i>	<i>Publication No.</i>	<i>Patent No.</i>	<i>Owner</i>
METHOD AND SYSTEM FOR TRENDLINE METERING DEVICES	United States	62/893,744	08/29/19			Ameriforge Group, Inc.
DEEPWATER MANAGED PRESSURE DRILLING JOINT	WIPO	PCT/US2020/061178	11/19/20			Ameriforge Group, Inc.
DEEPWATER MANAGED PRESSURE DRILLING JOINT	United States	62/963,396	01/20/20			Ameriforge Group, Inc.
HANDS-FREE GOOSENECK AND HANDS-FREE GOOSENECK FLOW SPOOL	United States	63/176,677	04/19/21			Ameriforge Group, Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
CABLE CLAMP	US	10/073551	2/11/2002	US 2002-0070317 A1	6726166	All Points Equipment Co., LLC
DRILLING RISER ASSEMBLIES	AU	2014235631	3/12/2014		2014235631	Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	BR	BR1120150236154	3/12/2014			Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	CA	2913961	3/12/2014			Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	GB	14769570.4	3/12/2014	2971442	2971442	Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	NO	14769570.4	3/12/2014	2971442	2971442	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
DRILLING RISER ASSEMBLIES	EP	14769570.4	3/12/2014	2971442	2971442	Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	EP	19150229.3	3/12/2014	3492689		Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	KR	10-2015-7029295	3/12/2014			Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	MX	MX/a/2015/013220	3/12/2014	MX/a/2015/013220		Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	MY	PI 2015703219	3/12/2014		MY-173238-A	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
DRILLING RISER ASSEMBLIES	SG	11201507543R	3/12/2014		11201507543R	Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	US	14/776674	3/12/2014	US 2016-0032662 A1	10301886	Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	US	61/791222	3/15/2013			Ameriforge Group Inc.
DRILLING RISER ASSEMBLIES	PCT	PCT/US2014/024313	3/12/2014	WO/2014/150816		Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	BR	1120150276342	5/1/2014			Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MPD-CAPABLE FLOW SPOOLS	CA	2911285	5/1/2014		2911285	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	DE	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	FR	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	GB	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MPD-CAPABLE FLOW SPOOLS	NL	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	NO	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	EP	14791083.0	5/1/2014	2992161	2992161	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	EP	19197582.0	5/1/2014	3604731		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MPD-CAPABLE FLOW SPOOLS	SG	11201508935X	5/1/2014			Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	SG	10201709056W	5/1/2014	10201709056W	10201709056W	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	US	14/888884	5/1/2014	US 2016-0076323 A1	9970247	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	US	15/910902	3/2/2018	US 2018-0320466 A1	10689929	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MPD-CAPABLE FLOW SPOOLS	US	16/906725	6/19/2020	US 2020-0347685 A1	11035186	Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	US	17/347329	6/14/2021			Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	US	61/819108	5/3/2013			Ameriforge Group Inc.
MPD-CAPABLE FLOW SPOOLS	PCT	PCT/US2014/036309	5/1/2014	WO/2014/179532		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	BR	1120150276458	5/1/2014		112015027645-8	Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	CA	2911287	5/1/2014		2911287	Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	CA	3092241	5/1/2014			Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	EP	14791006.1	5/1/2014	2992166		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	SG	11201508936S	5/1/2014			Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	SG	10201709063P	5/1/2014	10201709063P	10201709063P	Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	US	14/888894	5/1/2014	US 2016-0076312 A1	10012031	Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	US	15/596781	5/1/2014	US 2017-0247970 A1	9909379	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
LARGE-WIDTH DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	US	15/910770	3/2/2018	US 2018-0245416 A1	10392890	Ameriforge Group Inc.
LARGE WIDTH DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	US	16/512761	7/16/2019	US 2020-0182002 A1	11105171	Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	US	61/819210	5/3/2013			Ameriforge Group Inc.
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	PCT	PCT/US2014/036317	5/1/2014	WO/2014/179538		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
DRILLING RISER FLANGES AND ASSEMBLIES WITH CONTOURED BEARING SURFACES TO REDUCE SHEAR IN CONNECTORS	US	15/128770	3/24/2015	US 2017-0175937 A1	10520120	Ameriforge Group Inc.
DRILLING RISER FLANGES AND ASSEMBLIES WITH CONTOURED BEARING SURFACES TO REDUCE SHEAR IN CONNECTORS	US	61/969579	3/24/2014			Ameriforge Group Inc.
DRILLING RISER FLANGES AND ASSEMBLIES WITH CONTOURED BEARING SURFACES TO REDUCE SHEAR IN CONNECTORS	PCT	PCT/US2015/022278	3/24/2015	WO/2015/148528		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	BR	BR1120170014157	6/10/2015	1120170014157		Ameriforge Group Inc.
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	CA	2970481	6/10/2015			Ameriforge Group Inc.
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	EP	15824981.3	6/10/2015	3172471	3172471	Ameriforge Group Inc.
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	SG	11201700511Y	6/10/2015		11201700511Y	Ameriforge Group Inc.
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	US	15/327949	6/10/2015	US 2017-0204997 A1	10174869	Ameriforge Group Inc.
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	US	62/027518	7/22/2014			Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	PCT	PCT/US2015/035048	6/10/2015	WO/2016/014161		Ameriforge Group Inc.
CONNECTION APPARATUS FOR TELESCOPIC JOINT	US	15/947264	4/6/2018	US 2018-0292037 A1	10781956	Ameriforge Group Inc.
CONNECTION APPARATUS FOR TELESCOPIC JOINT	US	62/482531	4/6/2017			Ameriforge Group Inc.
CONNECTION APPARATUS FOR TELESCOPIC JOINT	PCT	PCT/US2018/026508	4/6/2018	WO/2018/187719		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
SPLITTABLE RISER COMPONENT	BR	1120190208569	4/6/2018	1120190208569		Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	CA	3058656	4/6/2018			Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	GB	18720880.6	4/6/2018	3607166		Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	NO	18720880.6	4/6/2018	3607166		Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
SPLITTABLE RISER COMPONENT	EP	18720880.6	4/6/2018	3607166		Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	US	15/947244	4/6/2018	US 2018-0320458 A1	10655403	Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	US	16/863672	4/30/2020	US 2020-0284102 A1		Ameriforge Group Inc.
SPLITTABLE RISER COMPONENT	US	62/482551	4/6/2017			Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
SPLITTABLE RISER COMPONENT	PCT	PCT/US2018/026513	4/6/2018	WO/2018/187722		Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	BR	1120190209425	4/6/2018	112019029425		Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	CA	3058658	4/6/2018			Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	GB	18720883.0	4/6/2018	3607170	3607170	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
INTEGRAL DSIT & FLOW SPOOL	NO	18720883.0	4/6/2018	3607170	3607170	Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	EP	18720883.0	4/6/2018	3607170	3607170	Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	US	15/947266	4/6/2018	US 2018-0320453 A1	10612317	Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	US	16/841282	4/6/2020	US 2020-0232286 A1	10837239	Ameriforge Group Inc.

Title	Country Code	Appl. No.	Appl. Filing Date	Pub. No.	Patent No.	Owner
INTEGRAL DSIT & FLOW SPOOL	US	17/088921	11/4/2020	US 2021-0115738 A1		Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	US	62/482580	4/6/2017			Ameriforge Group Inc.
INTEGRAL DSIT & FLOW SPOOL	PCT	PCT/US2018/026518	4/6/2018	WO/2018/187726		Ameriforge Group Inc.

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Non-Stop Driller Connector	GB	0905802.5	03-Apr-2009	2469119	2469119	Managed Pressure Operations PTE Ltd
Non Stop Driller #2	US	12/425173	16-Apr-2009	2010-0096190	8210266	Managed Pressure Operations PTE Ltd
TCD Manifold	GB	1015408.6	15-Sep-2010	2483671	2483671	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	US	12/882344	15-Sep-2010	2011-0067923	8360170	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination - Continuation	US	13/667813	15-Sep-2010	2013-0056273	8657034	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	GB	1104885.7	23-Mar-2011	2489265	2489265	Managed Pressure Operations PTE Ltd
46.5 Annular BOP DIV	GB	1706699.4	23-Mar-2011	2549210	2549210	Managed Pressure Operations PTE Ltd
Viscodriller	US	13/223676	01-Sep-2011	2012-0118638	8684109	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	GB	1207769.9	03-May-2012	2501741	2501741	Managed Pressure Operations PTE Ltd
Fast Closing Annular BOP	GB	1204310.5	12-Mar-2012	2500188	2500188	Managed Pressure Operations PTE Ltd
Fast Closing Annular BOP	US	13/443332	10-Apr-2012	2013-0233562	9004178	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	GB	1217362.1	28-Sep-2012	2506400	2506400	Managed Pressure Operations PTE Ltd
Seal Integrity Circuit	GB	1407072.6	22-Apr-2014	2525396	2525396	Managed Pressure Operations PTE Ltd
Gooseneck Details	GB	1322434.0	18-Dec-2013	2521404	2521404	Managed Pressure Operations PTE Ltd
Gooseneck Details	GB	2013449.0	18-Dec-2013	2585541	2585541	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	GB	1313139.6	23-Jul-2013	2516468	2516468	Managed Pressure Operations PTE Ltd
Grease Seal for Fluid Contamination Control	GB	1315123.8	23-Aug-2013	2517498	2517498	Managed Pressure Operations PTE Ltd
Leak rate across single seal sleeve	GB	1320695.8	22-Nov-2013	2520533	2520533	Managed Pressure Operations PTE Ltd
Leak rate across single seal sleeve	US	14/542776	17-Nov-2014	2015-0144400	10036227	Managed Pressure Operations PTE Ltd
Leak rate across single seal sleeve - DIV	US	16/021021	17-Nov-2014	2018-0334877	10711558	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method	US	14/572448	16-Dec-2014	2015-0167415	9500053	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Quick closing drilling diverter system and method (continuation)	US	15/297141	16-Dec-2014	2017-0089155	9845649	Managed Pressure Operations PTE Ltd
Ultra-mud gas separator	US	14/572492	16-Dec-2014	2015-0167413	10435966	Managed Pressure Operations PTE Ltd
DKD automated well control	GB	1406792.0	15-Apr-2014	2526255	2526255	Managed Pressure Operations PTE Ltd
Non Stop Driller	DE	09753169.3	22-Oct-2009	2350432	2350432	Managed Pressure Operations PTE Ltd.
Non Stop Driller	FR	09753169.3	22-Oct-2009	2350432	2350432	Managed Pressure Operations PTE Ltd.
Non Stop Driller	GB	09753169.3	22-Oct-2009	2350432	2350432	Managed Pressure Operations PTE Ltd.
Non Stop Driller	NO	09753169.3	22-Oct-2009	2350432	2350432	Managed Pressure Operations PTE Ltd.
Total Control Driller	DK	10712082.6	31-Mar-2010	2414619	2414619	Managed Pressure Operations PTE Ltd
Total Control Driller	GB	10712082.6	31-Mar-2010	2414619	2414619	Managed Pressure Operations PTE Ltd
Total Control Driller	IT	10712082.6	31-Mar-2010	2414619	2414619	Managed Pressure Operations PTE Ltd
Total Control Driller	NL	10712082.6	31-Mar-2010	2414619	2414619	Managed Pressure Operations PTE Ltd
Total Control Driller	NO	10712082.6	31-Mar-2010	2414619	2414619	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	DE	10712476.0	31-Mar-2010	2414620	2414620	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	FR	10712476.0	31-Mar-2010	2414620	2414620	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	GB	16200505.2	31-Mar-2010	3156583	3156583	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	NL	10712476.0	31-Mar-2010	2414620	2414620	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	NO	10712476.0	31-Mar-2010	2414620	2414620	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	GB	10752599.0	15-Sep-2010	2478179	2478179	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	NO	10752599.0	15-Sep-2010	2478179	2478179	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	GB	10752599.0	15-Sep-2010	2478179	2478179	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	NO	10752599.0	15-Sep-2010	2478179	2478179	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	FR	11778537.8	13-Sep-2011	2616629	2616629	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	IT	11778537.8	13-Sep-2011	2616629	2616629	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	NL	11778537.8	13-Sep-2011	2616629	2616629	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	NO	11778537.8	13-Sep-2011	2616629	2616629	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	CY	11705213.4	23-Feb-2011	2539536	2539536	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Floating Installation	GB	11705213.4	23-Feb-2011	2539536	2539536	Managed Pressure Operations PTE Ltd
Floating Installation	IT	11705213.4	23-Feb-2011	2539536	2539536	Managed Pressure Operations PTE Ltd
Floating Installation	NL	11705213.4	23-Feb-2011	2539536	2539536	Managed Pressure Operations PTE Ltd
Floating Installation	NO	11705213.4	23-Feb-2011	2539536	2539536	Managed Pressure Operations PTE Ltd
Top Drive & Mud Pump	GB	11788210.0	16-Nov-2011	2640931	2640931	Managed Pressure Operations PTE Ltd
Control Interaction	NO	11788210.0	16-Nov-2011	2640931	2640931	Managed Pressure Operations PTE Ltd
Top Drive & Mud Pump	NO	11788210.0	16-Nov-2011	2640931	2640931	Managed Pressure Operations PTE Ltd
Control Interaction	GB	12720942.7	20-Apr-2012	2699757	2699757	Managed Pressure Operations PTE Ltd
High Pressure Slip Joint	NO	12720942.7	20-Apr-2012	2699757	2699757	Managed Pressure Operations PTE Ltd
High Pressure Slip Joint	EP	19154566.4	21-Mar-2012	3495605		Managed Pressure Operations PTE Ltd
46.5 Annular BOP	GB	12713270.2	21-Mar-2012	2689097	2689097	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	NO	12713270.2	21-Mar-2012	2689097	2689097	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	GB	11716995.3	13-Apr-2011	2558676	2558676	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	NO	11716995.3	13-Apr-2011	2558676	2558676	Managed Pressure Operations PTE Ltd
Visco Driller	GB	11788211.8	16-Nov-2011	2640927	2640927	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Visco Driller	NO	11788211.8	16-Nov-2011	2640927	2640927	Managed Pressure Operations PTE Ltd
RDD Sealing Elements	EP	11779478.4	12-Oct-2011	2689098		Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	DE	13708504.9	12-Mar-2013	2825721	2825721	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	FR	13708504.9	12-Mar-2013	2825721	2825721	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Fast Closing Annular Bop	GB	13708504.9	12-Mar-2013	2825721	2825721	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	NL	13708504.9	12-Mar-2013	2825721	2825721	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	NO	13708504.9	12-Mar-2013	2825721	2825721	Managed Pressure Operations PTE Ltd
Riser Gas Handling	CY	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Riser Gas Handling	DE	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Riser Gas Handling	DK	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Riser Gas Handling	GB	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Riser Gas Handling	IT	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Riser Gas Handling	NL	13714960.5	10-Apr-2013	2836666	2836666	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	EP	13771200.6	27-Sep-2013	2900898		Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method - Div	EP					Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
2-Part NSD	GB	14710350.1	05-Mar-2014	2964872	2964872	Managed Pressure Operations PTE Ltd
2-Part NSD DIV	GB	17171559.2	05-Mar-2014	3236002	3236002	Managed Pressure Operations PTE Ltd
2-Part NSD	NO	14710350.1	05-Mar-2014	2964872	2964872	Managed Pressure Operations PTE Ltd
2-Part NSD DIV	NO	17171559.2	05-Mar-2014	3236002	3236002	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	GB	13780386.2	17-Oct-2013	2909422	2909422	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	NO	13780386.2	17-Oct-2013	2909422	2909422	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof	EP	14725534.3	19-May-2014	3025010		Managed Pressure Operations PTE Ltd
OCD Actuator	EP	14725534.3	19-May-2014	3025010		Managed Pressure Operations PTE Ltd
Modified Riser Pumping	GB	16707521.7	24-Feb-2016	3262272	3262272	Managed Pressure Operations PTE Ltd
Modified Riser Pumping	NO	16707521.7	24-Feb-2016	3262272	3262272	Managed Pressure Operations PTE Ltd
Non Stop Driller	AU	2009306122	22-Oct-2009		2009306122	Managed Pressure Operations PTE Ltd
Non Stop Driller DIV	AU	2015238781	22-Oct-2009		2015238781	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Non Stop Driller DIV	AU	2015238782	22-Oct-2009		2015238782	Managed Pressure Operations PTE Ltd
Non Stop Driller	AU	2015238787	22-Oct-2009		2015238787	Managed Pressure Operations PTE Ltd
Non Stop Driller	BR	PI0920039-8	22-Oct-2009		PI0920039-8	Managed Pressure Operations PTE Ltd.
Non Stop Driller	CA	2741487	22-Oct-2009		2741487	Managed Pressure Operations PTE Ltd.
Non Stop Driller	CN	200980147365.4	22-Oct-2009	CN 102272411 A	CN102272411B	Managed Pressure Operations PTE Ltd.
Non Stop Driller DIV	CN	201410645837.1	22-Oct-2009	104533307A	CN104533307B	Managed Pressure Operations PTE Ltd.

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Non Stop Driller	MX	MX/a/2011/004182	22-Oct-2009	MX/a/2011/004182	316645	Managed Pressure Operations PTE Ltd.
Non Stop Driller	MY	PI 2011001807	22-Oct-2009		MY-159693-A	Managed Pressure Operations PTE Ltd.
Non Stop Driller	SG	201102848-7	22-Oct-2009		170940	Managed Pressure Operations PTE Ltd.
Total Control Driller	AU	2010233847	31-Mar-2010		2010233847	Managed Pressure Operations PTE Ltd
Total Control Driller	CA	2757403	31-Mar-2010		2757403	Managed Pressure Operations PTE Ltd
Total Control Driller	CN	201080014561.7	31-Mar-2010	CN102405328A	CN102405328B	Managed Pressure Operations PTE Ltd
Total Control Driller	MX	MX/a/2011/010181	31-Mar-2010		333187	Managed Pressure Operations PTE Ltd
Total Control Driller	MY	PI2011004667	31-Mar-2010		MY-155890-A	Managed Pressure Operations PTE Ltd
Total Control Driller	SG	201107046-3	31-Mar-2010		174604	Managed Pressure Operations PTE Ltd
Total Control Driller	US	13/262595	31-Mar-2010	2012-0090893	9051803	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	AU	2010231117	31-Mar-2010		2010231117	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	AU	2014202789	31-Mar-2010		2014202789	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	CA	2757565	31-Mar-2010		2757565	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	CA	2988230	31-Mar-2010		2988230	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	CN	201080015338.4	31-Mar-2010	102378847A	201080015338.4	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Non-Stop Driller Connector	MX	MX/a/2011/010195	31-Mar-2010	MX/a/2011/010195	343355	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	MY	PI2011004695	31-Mar-2010		MY-164417-A	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	SG	201107047-1	31-Mar-2010		174953	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	SG	10201401154P	31-Mar-2010		10201401154P	Managed Pressure Operations PTE Ltd
Non-Stop Driller Connector	US	13/262655	31-Mar-2010	2012-0090853	9284800	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	AU	2010297339	15-Sep-2010		2010297339	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	CN	201080037355.8	15-Sep-2010	CN102575502A	ZL201080037355	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	MX	MX/a/2012/001983	15-Sep-2010	MX/a/2012001983	325822	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	MY	PI2012001163	15-Sep-2010		MY-168844-A	Managed Pressure Operations PTE Ltd
Fracture Gradient & Pore Pressure Determination	SG	201200577-3	15-Sep-2010		178120	Managed Pressure Operations PTE Ltd
TCD Manifold	AU	AU2011303956	13-Sep-2011		2011303956	Managed Pressure Operations PTE Ltd
TCD Manifold	SG	201301813-0	13-Sep-2011		188961	Managed Pressure Operations PTE Ltd
TCD Manifold	US	13/822914	13-Sep-2011	2013-0299240	9388650	Managed Pressure Operations PTE Ltd
Floating Installation	AU	2011219792	23-Feb-2011		2011219792	Managed Pressure Operations PTE Ltd
Floating Installation	MY	PI2012003732	23-Feb-2011		MY-164030-A	Managed Pressure Operations PTE Ltd
Floating Installation	SG	201206249-3	23-Feb-2011		183456	Managed Pressure Operations PTE Ltd
Floating Installation	US	13/580844	23-Feb-2011	2013-0014991	8973674	Managed Pressure Operations PTE Ltd
Non-Stop Drill Pipe	MX	MX/a/2013/000722	13-Jul-2011	MX/a/2013/000722	336527	Managed Pressure Operations PTE Ltd
Non-Stop Drill Pipe	MY	PI2013700101	13-Jul-2011		MY-166420-A	Managed Pressure Operations PTE Ltd
Non-Stop Drill Pipe	SG	201300449-4	13-Jul-2011		187149	Managed Pressure Operations PTE Ltd
Top Drive & Mud Pump Control Interaction	CN	201180055363.X	16-Nov-2011	CN103270242A	201180055363.X	Managed Pressure Operations PTE Ltd
Top Drive & Mud Pump Control Interaction	MY	PI2013700799	16-Nov-2011		MY-166114-A	Managed Pressure Operations PTE Ltd
Top Drive & Mud Pump Control Interaction	SG	201303682-7	16-Nov-2011		190799	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Top Drive & Mud Pump Control Interaction	US	13/885974	16-Nov-2011	2014-0202766	9506336	Managed Pressure Operations PTE Ltd
Mini DST Tool - Index Ball	GB	1310776.8	23-Dec-2011	2503115	2503115	Managed Pressure Operations PTE Ltd
Mini DSTTool - Index Ball	US	14/178509	23-Dec-2011	2014-0158433	9458696	Managed Pressure Operations PTE Ltd.
High Pressure Slip Joint	MX	MX/a/2013/012268	20-Apr-2012	MX/a/2013/012268	341604	Managed Pressure Operations PTE Ltd
High Pressure Slip Joint	SG	201307836-5	20-Apr-2012		194573	Managed Pressure Operations PTE Ltd
High Pressure Slip Joint	US	14/112868	20-Apr-2012	2014-0138096	9506300	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	AU	2012232857	21-Mar-2012		2012232857	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	CN	201280014906.8	21-Mar-2012	103459764A	201280014906.8	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	MX	MX/a/2013/010868	21-Mar-2012	5351535	347819	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	SG	201306765-7	21-Mar-2012		193371	Managed Pressure Operations PTE Ltd
46.5 Annular BOP	SG	10201601970R	21-Mar-2012	10201601970R		Managed Pressure Operations PTE Ltd
46.5 Annular BOP	US	14/006533	21-Mar-2012	2014-0048731	9488031	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	AU	2011241973	13-Apr-2011		2011241973	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	BR	BR1120120263129	13-Apr-2011			Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	CA	2795212	13-Apr-2011		2795212	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Annular Stripping Sleeve	MX	MX/a/2012/011762	13-Apr-2011		343183	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	SG	201207554-5	13-Apr-2011		184552	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve DIV	SG	10201502905Y	13-Apr-2011	10201502905Y	10201502905Y	Managed Pressure Operations PTE Ltd
Annular Stripping Sleeve	US	13/640933	13-Apr-2011	2013-0168578	9212532	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	MX	MX/a/2014/013334	03-May-2013		349305	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	MY	PI2014703222	03-May-2013		MY-175727-A	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	SG	11201407064X	03-May-2013		11201407064X	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	US	14/398617	03-May-2013	2015-0107898	10138693	Managed Pressure Operations PTE Ltd
Influx Management & Choke Control	US	16/166174	03-May-2013	2019-0120003	11035184	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
RDD Sealing Elements	CA	2830856	12-Oct-2011		2830856	Managed Pressure Operations PTE Ltd
RDD Sealing Elements	MX	MX/a/2013/010863	12-Oct-2011	5351532	351690	Managed Pressure Operations PTE Ltd
RDD Sealing Elements	MY	PI2013701699	12-Oct-2011		MY-170754-A	Managed Pressure Operations PTE Ltd
RDD Sealing Elements	SG	201306848-1	12-Oct-2011		193417	Managed Pressure Operations PTE Ltd
RDD Sealing Elements	US	14/006827	12-Oct-2011	2015-0369000	9605504	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Fast Closing Annular Bop	AU	2013231276	12-Mar-2013		2013231276	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	CA	2867064	12-Mar-2013		2867064	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	MX	MX/a/2014/010870	12-Mar-2013	5619553	344028	Managed Pressure Operations PTE Ltd
Fast Closing Annular Bop	MY	P/2014002603	12-Mar-2013		MY-175573-A	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Fast Closing Annular Bop	SG	11201405670Y	12-Mar-2013		11201405670Y	Managed Pressure Operations PTE Ltd
Riser Gas Handling	AU	AU2013246915	10-Apr-2013		2013246915	Managed Pressure Operations PTE Ltd
Riser Gas Handling	CA	2870163	10-Apr-2013		2870163	Managed Pressure Operations PTE Ltd
Riser Gas Handling	CN	201380019289.5	10-Apr-2013	CN104246114A	CN104246114	Managed Pressure Operations PTE Ltd
Riser Gas Handling	MX	MX/a/2014/012264	10-Apr-2013	5619689	346219	Managed Pressure Operations PTE Ltd
Riser Gas Handling	US	14/394038	10-Apr-2013	2015-0068758	9605502	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	MX	MX/a/2015/004003	27-Sep-2013			Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	MY	PI2015700981	27-Sep-2013		MY-179810-A	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	SG	11201502458W	27-Sep-2013		11201502458W	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method	US	14/431917	27-Sep-2013	2015-0252637	9506305	Managed Pressure Operations PTE Ltd
Zero Equivalent Circulating Density Drilling Method (continuation)	US	15/294798	27-Sep-2013	2017-0044856	9759024	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Influx Volume Reduction System	GB	1416032.9	12-Mar-2013	2515419	2515419	Managed Pressure Operations PTE Ltd
Influx Volume Reduction System	US	14/384619	12-Mar-2013	2015-0034384	10309191	Managed Pressure Operations PTE Ltd
Seal Integrity Circuit	NO	20161826	15-Apr-2015			Managed Pressure Operations PTE Ltd
Seal Integrity Circuit	SG	11201608858Y	15-Apr-2015		11201608858Y	Managed Pressure Operations PTE Ltd
2-Part NSD	MX	MX/a/2015/011622	05-Mar-2014		366579	Managed Pressure Operations PTE Ltd
2-Part NSD - Div	MX	MX/a/2019/008315	05-Mar-2014			Managed Pressure Operations PTE Ltd
2-Part NSD	MY	PI2015702928	05-Mar-2014		MY-181937	Managed Pressure Operations PTE Ltd
2-Part NSD	MY	PI2021000102	05-Mar-2014			Managed Pressure Operations PTE Ltd
2-Part NSD	SG	11201507161V	05-Mar-2014		11201507161V	Managed Pressure Operations PTE Ltd
2-Part NSD	US	14/772267	05-Mar-2014	2016-0002993	10246958	Managed Pressure Operations PTE Ltd
Gooseneck details	NO	20161185	17-Dec-2014			Managed Pressure Operations PTE Ltd
Gooseneck details	SG	11201605007V	17-Dec-2014		11201605007V	Managed Pressure Operations PTE Ltd
Gooseneck details - Div	SG	10201902762T	17-Dec-2014			Managed Pressure Operations PTE Ltd
Gooseneck details	US	15/105571	17-Dec-2014	2016-0348449	9719310	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
OCD Hydraulic Clamp	CA	2886308	17-Oct-2013		2886308	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	MX	MX/a/2015/004889	17-Oct-2013		360088	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	MY	PI2015701213	17-Oct-2013		MY-177351	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	SG	11201502690V	17-Oct-2013		11201502690V	Managed Pressure Operations PTE Ltd
OCD Hydraulic Clamp	US	14/436783	17-Oct-2013	2015-0285015	10344547	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	AU	2014294814	19-May-2014		2014294814	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	CA	2916904	19-May-2014		2916904	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	MX	MX/a/2016/000817	19-May-2014			Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	MY	PI2016700209	19-May-2014		MY-178503	Managed Pressure Operations PTE Ltd
Differential Pressure - Proof OCD Actuator	SG	11201600514P	19-May-2014		11201600514P	Managed Pressure Operations PTE Ltd
Leak rate across single seal sleeve	NO	20161032	12-Nov-2014			Managed Pressure Operations PTE Ltd
Leak rate across single seal sleeve	SG	11201604072X	12-Nov-2014		11201604072X	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method	GB	1608724.9	16-Dec-2014	2539790	2539790	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method - Div 1	GB	2013438.3	16-Dec-2014	2586541	2586541	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method - Div 2	GB	2013441.7	16-Dec-2014	2584262	2584262	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method	SG	11201604932Y	16-Dec-2014		11201604932Y	Managed Pressure Operations PTE Ltd
Quick closing drilling diverter system and method - Div	SG	10201900236Q	16-Dec-2014			Managed Pressure Operations PTE Ltd
Sealing element wear indicator system	GB	1612896.9	21-Jan-2015	2537304	2537304	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Sealing element wear indicator system	NO	20161284	21-Jan-2015			Managed Pressure Operations PTE Ltd
Sealing element wear indicator system	SG	11201606055V	21-Jan-2015		11201606055V	Managed Pressure Operations PTE Ltd, Leuchtenberg, Christian
Sealing element wear indicator system	US	15/113438	21-Jan-2015	2017-0009550	10174577	Managed Pressure Operations PTE Ltd
Sealing element wear indicator system	US	16/207209	21-Jan-2015	2019-0162042	11053768	Managed Pressure Operations PTE Ltd
Ultra-mud gas separator	GB	1610291.5	16-Dec-2014	2537535	2537535	Managed Pressure Operations PTE Ltd
Ultra-mud gas separator DIV	GB	1705972.6	16-Dec-2014	2550283	2550283	Managed Pressure Operations PTE Ltd
Ultra-mud gas separator	NO	20161082	16-Dec-2014			Managed Pressure Operations PTE Ltd
Ultra-mud gas separator	SG	11201604938V	16-Dec-2014		11201604938V	Managed Pressure Operations PTE Ltd
DKD automated well control	NO	20161742	14-Apr-2015			Managed Pressure Operations PTE Ltd
DKD automated well control	SG	11201608612X	14-Apr-2015		11201608612X	Managed Pressure Operations PTE Ltd
DKD automated well control	US	15/304068	14-Apr-2015	2017-0037691	10443329	Managed Pressure Operations PTE Ltd
Annular BOP sealing element	AE	P6000723/2017	17-Nov-2015			Managed Pressure Operations PTE Ltd
Annular BOP sealing element	BR	BR1120170127873	17-Nov-2015			Managed Pressure Operations PTE Ltd
Annular BOP sealing element	CA	2971085	17-Nov-2015		2971085	Managed Pressure Operations PTE Ltd
Annular BOP sealing element	GB	1709520.9	17-Nov-2015	2547871	2547871	Managed Pressure Operations PTE Ltd
Annular BOP sealing element	MX	MX/a/2017/007849	17-Nov-2015			Managed Pressure Operations PTE Ltd
Annular BOP sealing element	MY	PI2017000906	17-Nov-2015		MY-184690-A	Managed Pressure Operations PTE Ltd
Annular BOP sealing element	NO	20171098	17-Nov-2015			Managed Pressure Operations PTE Ltd
Annular BOP sealing element	SG	11201704921R	17-Nov-2015		11201704921R	Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Annular BOP sealing element	US	15/536658	17-Nov-2015	2017-0370171	10316607	Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	AE	P6001303/2017	13-Apr-2016			Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	BR	BR112017021940-9	13-Apr-2016			Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	CA	2982694	13-Apr-2016			Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	GB	1716635.6	13-Apr-2016	2555239	2555239	Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	ID	PID201707772	13-Apr-2016	2018/09209		Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	MX	MX/a/2017/013076	13-Apr-2016		379557	Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	NO	20171771	13-Apr-2016			Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	SG	11201708377V	13-Apr-2016		11201708377V	Managed Pressure Operations PTE Ltd
Riser Pressure Relief System	US	15/565905	13-Apr-2016	2018-0051536	10605048	Managed Pressure Operations PTE Ltd
Modified Riser Pumping	AE	P6001065/2017	24-Feb-2016			Managed Pressure Operations PTE Ltd
Modified Riser Pumping	BR	BR1120170180367	24-Feb-2016			Managed Pressure Operations PTE Ltd

TITLE	COUNTRY CODE	APPLICATION NUMBER	APPLICATION FILING DATE	PUBLICATION NUMBER	PATENT NUMBER	OWNER
Modified Riser Pumping	CA	2977304	24-Feb-2016			Managed Pressure Operations PTE Ltd
Modified Riser Pumping	ID	P00201705651	24-Feb-2016	2018/04357	IDP000071823	Managed Pressure Operations PTE Ltd
Modified Riser Pumping	MX	MX/a/2017/010831	24-Feb-2016			Managed Pressure Operations PTE Ltd
Modified Riser Pumping	MY	P12017001258	24-Feb-2016			Managed Pressure Operations PTE Ltd
Modified Riser Pumping	SG	11201706919P	24-Feb-2016		11201706919P	Managed Pressure Operations PTE Ltd
Modified Riser Pumping	US	15/552806	24-Feb-2016	2018-0038177	10724315	Managed Pressure Operations PTE Ltd

EXHIBIT C

MEMORANDUM OF TRADEMARK ASSIGNMENT

This Trademark Assignment from:

- (a) **Ameriforge Group Inc. d/b/a AFGlobal Corporation**, a Texas corporation ("US Assignor"); and
- (b) **Managed Pressure Operations Pte. Ltd.**, a company organized in Singapore ("Singapore Assignor," and together with "US Assignor," "Assignors"),

to:

- (c) **Grant Prideco, Inc.**, a Delaware corporation (the "Assignee"),

is effective November 16, 2021 ("Effective Date").

RECITALS

- A. Assignors own the trademark applications and registrations set forth in the attached Appendix A (the "Marks"); and
- B. Assignee desires to acquire Assignors' right, title, and interest in and to the Marks.

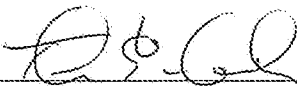
ASSIGNMENT

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors' entire right, title, and interest in and to the Marks, together with the good will of Assignors' businesses in which the Marks are used, or with that part of the good will of such businesses connected with the use of and symbolized by the Marks, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect, including all rights of priority associated with the foregoing, and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors if this Agreement had not been executed, together with all income, royalties, or payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity), with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.

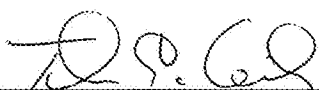
[Signature pages follow.]

ASSIGNORS:

MANAGED PRESSURE OPERATIONS PTE. LTD.

By: 
Name: THOMAS E. GILES
Title: DIRECTOR

AMERIFORGE GROUP INC. D/B/A AFGLOBAL
CORPORATION

By: 
Name: THOMAS E. GILES
Title: ED + GENERAL COUNSEL

ASSIGNEE:

GRANT PRIDECO, INC.

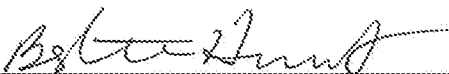
By: 
Name: Brigitte Hunt
Title: Vice President and Assistant Secretary

EXHIBIT D

MEMORANDUM OF PATENT ASSIGNMENT

This Patent Assignment from:

- (a) **Ameriforge Group Inc. d/b/a AFGlobal Corporation**, a Texas corporation (“US Assignor”); and
- (b) **Managed Pressure Operations Pte. Ltd.**, a company organized in Singapore (“Singapore Assignor,” and together with US Assignor, “Assignors”);

to:

- (c) **Grant Prideco, Inc.**, a Delaware corporation (the “Assignee”),

is effective November 16, 2021 (“Effective Date”).

RECITALS

- A. Assignors own the patent applications and patents set forth in the attached **Appendix A** (the “Patents”); and
- B. Assignee desires to acquire Assignors’ right, title, and interest in and to the Patents.


ASSIGNMENT

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors’ entire right, title, and interest in and to the Patents, including any and all continuations, divisionals, continuations in part applications, renewals, reexaminations, and extensions of each such Assigned Patent, together with all rights of registration, maintenance, and protection thereof in any form, all rights to income, royalties, damages, and payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity), involving such Patents.

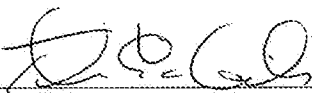
[Signature pages follow.]

ASSIGNORS:

MANAGED PRESSURE OPERATIONS PTE. LTD.


By: 
Name: THOMAS E. GILES
Title: DIRECTOR

AMERIFORGE GROUP INC. D/B/A AFGLOBAL
CORPORATION

By: 
Name: THOMAS E. GILES
Title: EVP & GENERAL COUNSEL

ASSIGNEE:

GRANT PRIDECO, INC.

By: 
Name: Brigitte Hunt
Title: Vice President and Assistant Secretary

INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this “Agreement”) is made and entered effective as of November 16, 2021 (the “Effective Date”) by and among:

- (a) **Ameriforge Group Inc. d/b/a AFGlobal Corporation**, a Texas corporation (“US Assignor”);
- (b) **Managed Pressure Operations Pte. Ltd.**, a company organized in Singapore (“Singapore Assignor”); each of US Assignor and Singapore Assignor, an “Assignor”, and together, “Assignors”); and
- (c) **Grant Prideco, Inc.**, a Delaware corporation (“Assignee”).

Each Assignor and Assignee is a “Party” and are together, the “Parties.”

RECITALS

WHEREAS, Affiliates of Assignors and Assignee entered into that certain Master Purchase Agreement, dated November 16, 2021, pursuant to which Assignors and Affiliates of Assignors will sell certain assets from its global Offshore Oil & Gas business to Assignee and Affiliates of Assignee (the “Purchase Agreement”);

WHEREAS, capitalized terms used but not defined in this Agreement have the meanings ascribed to them in the Purchase Agreement;

WHEREAS, under the Purchase Agreement, Sellers have agreed to assign the Owned Intellectual Property to Buyers.

WHEREAS, to give effect to the terms of the terms of the Purchase Agreement, Sellers have agreed to cause Assignors to assign certain trademarks, service marks, design marks, and logos, as well as applications, registrations, and common law rights related to the foregoing as set forth in **Exhibit A** (the “Assigned Marks”), together with the goodwill associated therewith, and certain patents and patent applications as set forth in **Exhibit B** (the “Assigned Patents”, and together with the Assigned Marks, the “Assigned IP”), to Assignee, pursuant to the terms and subject to the conditions of this Agreement; and

NOW, THEREFORE, in consideration of mutual promises in this Agreement and the Purchase Agreement, the receipt and sufficiency of which is hereby acknowledged by the Parties, the Parties agree as follows:

AGREEMENT

1. **Assigned Marks**. Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors’ entire right, title, and interest in and to the Assigned Marks, together with the good will of Assignors’ businesses in which the Assigned Marks are used, or with that part of the good will of such businesses connected with the use of and symbolized by the Assigned Marks, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect, including all rights of priority associated with the foregoing, and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors if this Agreement had not been executed, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and remedies recoverable thereby, whether at law or in equity), with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.

- 1.1. Assignee may record the Memorandum of Trademark Assignment attached as **Exhibit C** as it deems necessary and at its sole expense. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to perfect this assignment (at Assignee's sole cost and expense).
 - 1.2. On and after the Effective Date, Assignors acknowledge that Assignee is the owner of all right, title, and interest in and to the Assigned Marks, and Assignors further acknowledge that they have no ownership interest in, and will not use in any way, the Assigned Marks and will not acquire any ownership interest in the Assigned Marks by reason of this Agreement. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to secure trademark registration or other intellectual-property protection for the Assigned Marks (at Assignee's sole cost and expense).
 - 1.3. Assignors will not at any time do, will not assist another person or entity to do, any act or thing that would, would seek to, or would reasonably be likely to, impair or interfere with the rights of Assignee in and to the Assigned Marks or adversely affect the validity of the Assigned Marks, including opposition, cancellation, or concurrent use proceedings.
2. Assigned Patents. Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors' entire right, title, and interest in and to the Assigned Patents, including any and all continuations, divisionals, continuations in part applications, renewals, reexaminations, and extensions of each such Assigned Patent, together with all rights of registration, maintenance, and protection thereof in any form, all rights to income, royalties, damages, and payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity) involving such Assigned Patents.
 - 2.1. Assignee will record the Memorandum of Patent Assignment attached as **Exhibit D** as it deems necessary and at its sole expense. Assignors will take additional steps and sign additional documents as reasonably requested by Assignors to perfect this assignment (at Assignee's sole cost and expense).
 - 2.2. On and after the Effective Date, Assignors acknowledge that Assignee is the owner of all right, title, and interest in and to the Assigned Patents, and Assignors further acknowledge that they have no ownership interest in, and will not make, use, sell, offer to sell, or import any product, system, process, or method to the extent infringing any valid and unexpired claim of, the Assigned Patents and will not acquire any ownership interest in the Assigned Patents by reason of this Agreement. Assignors will take additional steps and sign additional documents as reasonably requested by Assignee to secure patent registration or other intellectual-property protection for the Assigned Patents (at Assignee's sole cost and expense).
 - 2.3. Assignors will not at any time do, will not assist another person or entity to do, any act or thing that would, would seek to, or would reasonably be likely to, impair or interfere with the rights of Assignee in and to the Assigned Patents or adversely affect the validity of the Assigned Patents, including any re-examination, *inter partes* review, post-grant review, or derivation proceeding.
3. Delivery of Documentation. Assignors undertake to hand over to Assignee, promptly after the Effective Date (and in no event later than thirty (30) days after the Effective Date), all books, records, inventors' notebooks, laboratory notebooks and other similar documentation, relating to the Assigned Patents that are in Assignors' possession and control (the "Documentation").
4. Additional Intellectual Property Rights. If it is discovered after the Effective Date that an Affiliate of the Assignors that is not party to this Agreement owns any Intellectual Property Rights that constitute

Owned Intellectual Property, Assignors agree to promptly procure the assignment by such Affiliate to Assignee at Assignors' sole cost and expense

5. Further Assurances. In addition to the foregoing:
 - 5.1. Assignors further agree to (at Assignee's sole cost and expense): (a) for a period of one (1) year after the Effective Date, cooperate with Assignee in the prosecution and maintenance of the rights associated with the Assigned IP, including foreign counterparts; (b) execute, verify, acknowledge, and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully and reasonably may request to maintain the Assigned IP in any and all countries; and
 - 5.2. If certain Assigned Marks or Assigned Patents are still registered under a former company's name of Assignors or any Affiliate of AFG Holdings, Inc., or if the chain of title at the United States Patent and Trademark Office (USPTO) does not properly reflect ownership of the Assigned IP in the assignment records of the USPTO in the name of one or more of Assignors, Assignors shall promptly carry out, at Assignors' sole cost and expense, the necessary steps and formalities, including filing the chain of title documents, to bring the chain of title in the assignment records of the USPTO current to Assignors. As soon as title has been officially registered, Assignors shall inform Assignee thereof.
6. Assignment. The rights and obligations of Assignors, on the one hand, and Assignee, on the other hand, shall not be assignable or otherwise transferable without the prior written consent of the other, except that all rights hereunder shall inure to the benefit of any successor-in-interest.
7. Notices. All notices or other communications must be in writing and may be given by registered mail, email, or personal delivery. Notices shall be effective upon receipt by the Party notified. All notices shall be sent to the addresses set forth below:

For Notice to Assignors:

AFG Holdings, Inc.
19450 State Hwy 249, Suite 500
Houston, TX 77070
Attn: Tom Giles
Email: tgiles@afglobalcorp.com

For Notice to Assignee:

Grant Prideco, Inc.
c/o National Oilwell Varco, L.P.
7909 Parkwood Circle Drive
Houston, Texas 77036
Email: blake.mccarthy@nov.com; pete.vranderic@nov.com; carol.smith@nov.com
Attention: Corporate Development

8. Governing Law. The validity, interpretation and enforcement of this Agreement will be governed by the laws of the State of Texas without regard to conflicts of law principles that would require application of any other law. Any action or proceeding arising out of or relating to this Agreement must be brought in a state or federal court sitting in Montgomery County, Texas and each of the Parties irrevocably submits to the exclusive jurisdiction of each such court in any such action or proceeding and waives any objection it may now or hereafter have to venue or convenience of forum.

9. Modification of Agreement and Waiver. This Agreement may not be amended except by a writing executed by the Parties. Failure of a Party to enforce one or more of the provisions of this Agreement or to exercise any option or other rights hereunder or to require at any time performance or any of the obligations hereof will not be construed to be a waiver of such provisions by such Party nor to, in any way, affect the validity of this Agreement or such Party's right thereafter to enforce each and every provision of this Agreement, nor to preclude such Party from taking any other action at any time which it would legally be entitled to take.
10. Entire Agreement. The Parties acknowledge and agree that this Agreement is entered into pursuant to the Purchase Agreement, to which reference is made for a further statement of the rights and obligations of Assignors and Assignee with respect to the Assigned IP. The representations, warranties, covenants, agreements, and indemnities contained in the Purchase Agreement shall not be superseded hereby but shall remain in full force and effect to the full extent provided therein. In the event of any conflict or inconsistency between the terms of the Purchase Agreement and the terms hereof, the terms of the Purchase Agreement shall govern.
11. Transaction Document. This Assignment constitutes a Transaction Document for the purposes of the Purchase Agreement and the other Transaction Documents.

[Signature pages follow.]

IN WITNESS WHEREOF, this Agreement is executed as of the Effective Date.

ASSIGNORS:

MANAGED PRESSURE OPERATIONS PTE. LTD.

By: 

Name: Thomas E. Giles

Title: Authorized Representative

**AMERIFORGE GROUP INC. D/B/A AFGLOBAL
CORPORATION**

By: 

Name: Thomas E. Giles

Title: Authorized Representative

ASSIGNEE:

GRANT PRIDECO, INC.

By: Brigitte Hunt

Name: Brigitte Hunt

Title: Vice President

EXHIBIT A
ASSIGNED MARKS AND APPLICATIONS
[See attached.]

Common Law Trademark	Goods
Ncontrol	NControl™ MPD platform fully integrates monitoring and live data analytics with MPD system control and rig automation. This platform serves as a communication hub between subsea and surface MPD equipment, the rig's drilling control system, and third-party equipment and software. NControl™ interfaces with other AFGlobal and third-party MPD equipment to safely and effectively operate in applied surface back pressure (ASBP), pressure mud cap drilling (PMCD), riser gas handling (RGH), and conventional drilling modes.
AutoACD	AutoACD™ software package program quickly integrates into the NControl™ MPD platform for safer, more efficient drilling. This program works with all existing active control devices (ACD) and operates on a feedback loop, constantly monitoring and adjusting for faster, better decisions on the well. When easily accessible information is needed outside basic traditional parameters—beyond setpoint control—the AutoACD™ program optimizes data in the same way 'autocorrect' simplifies word processing. This program is predictive in nature, commands and minimizes downtime, reduces the crew workload, and promotes safety.
SafeStab	

EXHIBIT B
ASSIGNED PATENTS AND APPLICATIONS
[See attached.]

Title	Assignor	Country/Jurisdiction	Patent Appl. No.	Patent Appl. Pub. No.	Patent No.
Rotating Control Device for Jackup Rigs	Ameriforge Group, Inc.	US	16/984,831	20200362659	11008825
Rotating Control Device for Jackup Rigs	Ameriforge Group, Inc.	US	17/241,711		
Annular Sealing System & Integrated Managed Pressure Drilling Riser	Ameriforge Group, Inc.	Brazil	BR11 2021 007169-5		
Joint Annular Sealing System & Integrated Managed Pressure Drilling Riser	Ameriforge Group, Inc.	Canada	3116658		
Joint Annular Sealing System & Integrated Managed Pressure Drilling Riser	Ameriforge Group, Inc.	Europe	19873685.2		
Joint Annular Sealing System & Integrated Managed Pressure Drilling Riser	Ameriforge Group, Inc.	US	17/233,082		
Joint Static Annular Sealing Systems and Integrated Managed Pressure Drilling Riser Joints for Harsh Environments	Ameriforge Group, Inc.	Brazil	BR 11 2021 007976-9		
Static Annular Sealing Systems and Integrated Managed Pressure Drilling Riser Joints for Harsh Environments	Ameriforge Group, Inc.	Canada	3118413		
Static Annular Sealing Systems and Integrated Managed Pressure Drilling Riser Joints for Harsh Environments	Ameriforge Group, Inc.	Europe	19880231.6		

Static Annular Sealing Systems and Integrated Managed Pressure Drilling Riser Joints for Harsh Environments	Ameriforge Group, Inc.	US	17/244,078		
Hands-Free Gooseneck and Hands-Free Gooseneck Flow Spool TCD Manifold	Ameriforge Group, Inc.	US	63/176,677		
	Managed Pressure Operations PTE Ltd	Australia	AU2011303956		2011303956
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	Australia	2010297339		2010297339
Non Stop Driller	Managed Pressure Operations PTE Ltd	Australia	2009306122		2009306122
Non Stop Driller	Managed Pressure Operations PTE Ltd	Australia	2015238787		2015238787
Non Stop Driller DIV	Managed Pressure Operations PTE Ltd	Australia	2015238781		2015238781
Non Stop Driller DIV	Managed Pressure Operations PTE Ltd	Australia	2015238782		2015238782
Floating Installation	Managed Pressure Operations PTE Ltd	Australia	2011219792		2011219792
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Australia	2013231276		2013231276
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	Australia	2012232857		2012232857
Non Stop Driller	Managed Pressure Operations PTE Ltd	Australia	2010231117		2010231117
Connector	Managed Pressure Operations PTE Ltd	Australia	2014202789		2014202789
Non-Stop Driller Connector DIV	Managed Pressure Operations PTE Ltd	Australia	2010233847		2010233847
Total Control Driller	Managed Pressure Operations PTE Ltd	Australia	AU2013246915		2013246915
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Australia	2011241973		2011241973
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Australia	2014294814		2014294814
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Australia	PI0920039-8		PI0920039-8
Non Stop Driller	Managed Pressure Operations PTE Ltd	Brazil			

Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Canada	2867064		2867064
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Canada	2757565		2757565
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Canada	2988230		2988230
Total Control Driller	Managed Pressure Operations PTE Ltd	Canada	2757403		2757403
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Canada	2795212		2795212
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Canada	2870163		2870163
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Canada	2916904		2916904
Non Stop Driller	Managed Pressure Operations PTE Ltd	Canada	2741487		2741487
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	Canada	2886308		2886308
RDD Sealing Elements	Managed Pressure Operations PTE Ltd	Canada	2830856		2830856
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	China	201080037355.8		ZL201080037355.8
Non Stop Driller	Managed Pressure Operations PTE Ltd	China	200980147365.4		CN102272411B
Non Stop Driller DIV	Managed Pressure Operations PTE Ltd	China	201410645837.1		CN104533307B
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	China	201180055363.X		201180055363.x
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	China	201280014906.8		201280014906.8
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	China	201080015338.4		201080015338.4
Total Control Driller	Managed Pressure Operations PTE Ltd	China	201080014561.7		CN102405328B
Riser Gas Handling	Managed Pressure Operations PTE Ltd	China	201380019289.5		CN104246114
Floating Installation	Managed Pressure Operations PTE Ltd	Cyprus	11705213.4		2539536
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Cyprus	13714960.5		2836666

Total Control Driller	Managed Pressure Operations PTE Ltd	Denmark	10712082.6		2414619
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Denmark	13714960.5		2836666
TCD Manifold	Managed Pressure Operations PTE Ltd	France	11778537.8		2616629
Non Stop Driller	Managed Pressure Operations PTE Ltd	France	09753169.3		2350432
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	France	13708504.9		2825721
Non-Stop Driller	Managed Pressure Operations PTE Ltd	France	10712476.0		2414620
Connector	Managed Pressure Operations PTE Ltd	Germany	09753169.3		2350432
Non Stop Driller	Managed Pressure Operations PTE Ltd	Germany	13708504.9		2825721
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Germany	10712476.0		2414620
Non-Stop Driller	Managed Pressure Operations PTE Ltd	Germany	13714960.5		2836666
Connector	Managed Pressure Operations PTE Ltd	Germany	09753169.3		2350432
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Germany	13714960.5		2836666
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Indonesia	P00201705651		71823
TCD Manifold	Managed Pressure Operations PTE Ltd	Italy	11778537.8		2616629
Floating Installation	Managed Pressure Operations PTE Ltd	Italy	11705213.4		2539536
Total Control Driller	Managed Pressure Operations PTE Ltd	Italy	10712082.6		2414619
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Italy	13714960.5		2836666
Non-Stop Drill Pipe	Managed Pressure Operations PTE Ltd	Malaysia	PI2013700101		INV-166420-A
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Malaysia	PI2014002603		INV-175573-A
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	Malaysia	PI2014703222		INV-175727-A
RDD Sealing Elements	Managed Pressure Operations PTE Ltd	Malaysia	PI2013701699		INV-170754-A
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	Malaysia	PI2015701213		INV-177351
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Malaysia	PI2016700209		INV-178503

Floating Installation	Managed Pressure Operations PTE Ltd	Malaysia	PI2012003732		MY-164030-A
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	Malaysia	PI2015700981		MY-179810-A
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	Malaysia	PI2012001163		MY-168844-A
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Malaysia	PI2011004695		MY-164417-A
Total Control Driller	Managed Pressure Operations PTE Ltd	Malaysia	PI2011004667		MY-155890-A
Non-Stop Driller	Managed Pressure Operations PTE Ltd	Malaysia	PI 2011001807		MY-159693-A
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	Malaysia	PI2013700799		MY-166114-A
Non-Stop Drill Pipe	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2013/000722		336527
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2013/010868		347819
Riser Gas Handling	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2014/012264		346219
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2014/013334		349305
RDD Sealing Elements	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2013/010863		351690
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2015/004889		360088
Non-Stop Driller	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2011/004182		316645
2-Part NSD	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2015/011622		366579
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2012/001983		325822
Total Control Driller	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2011/010181		333187
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2014/010870		344028
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2011/010195		343355

Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2012/011762		343183
High Pressure Slip Joint	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2013/012268		341604
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	Norway	10752599.0		2478179
TCD Manifold	Managed Pressure Operations PTE Ltd	Norway	11778537.8		2616629
Non Stop Driller	Managed Pressure Operations PTE Ltd.	Norway	09753169.3		2350432
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	Norway	13780386.2		2909422
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	Norway	11788210.0		2640931
Visco Driller	Managed Pressure Operations PTE Ltd	Norway	11788211.8		2640927
Floating Installation	Managed Pressure Operations PTE Ltd	Norway	11705213.4		2539536
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Norway	16707521.7		3262272
2-Part NSD	Managed Pressure Operations PTE Ltd	Norway	14710350.1		2964872
2-Part NSD DIV	Managed Pressure Operations PTE Ltd	Norway	17171559.2		3236002
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	Norway	12713270.2		2689097
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Norway	13708504.9		2825721
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Norway	10712476.0		2414620
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Norway	16200505.2		3156583
Total Control Driller	Managed Pressure Operations PTE Ltd	Norway	10712082.6		2414619
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Norway	11716995.3		2558676
High Pressure Slip Joint	Managed Pressure Operations PTE Ltd	Norway	12720942.7		2699757
Non-Stop Drill Pipe	Managed Pressure Operations PTE Ltd	Singapore	201300449-4		187149

TCD Manifold	Managed Pressure Operations PTE Ltd	Singapore	201301813-0	188361
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	Singapore	201200577-3	178120
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	Singapore	11201502458W	11201502458W
R/D Sealing Elements	Managed Pressure Operations PTE Ltd	Singapore	201306848-1	193417
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	Singapore	11201502690V	11201502690V
Non Stop Driller	Managed Pressure Operations PTE Ltd	Singapore	201102848-7	170940
Leak rate across single seal sleeve	Managed Pressure Operations PTE Ltd	Singapore	11201604072X	11201604072X
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	Singapore	201303682-7	190799
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Singapore	11201704921R	11201704921R
Quick closing drilling diverter system and method	Managed Pressure Operations PTE Ltd	Singapore	11201604932Y	11201604932Y
Ultra-mud gas separator	Managed Pressure Operations PTE Ltd	Singapore	11201604938V	11201604938V
Gooseneck details	Managed Pressure Operations PTE Ltd	Singapore	11201605007V	11201605007V
Sealing element wear indicator system	Managed Pressure Operations PTE Ltd	Singapore	11201606055V	11201606055V
Floating Installation	Managed Pressure Operations PTE Ltd	Singapore	201206249-3	183456
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Singapore	11201706919P	11201706919P
2-Part NSD	Managed Pressure Operations PTE Ltd	Singapore	11201507161V	11201507161V
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	Singapore	11201405670Y	11201405670Y
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	Singapore	201306765-7	193371
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	Singapore	201107047-1	174953

Non-Stop Driller Connector DIV	Managed Pressure Operations PTE Ltd	Singapore	10201401154P	10201401154P	
Total Control Driller	Managed Pressure Operations PTE Ltd	Singapore	201107046-3	174604	
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Singapore	201207554-5	184552	
Annular Stripping Sleeve DIV	Managed Pressure Operations PTE Ltd	Singapore	10201502905Y	10201502905Y	
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Singapore	11201708377V	11201708377V	
DKD automated well control	Managed Pressure Operations PTE Ltd	Singapore	11201608612X	11201608612X	
Seal Integrity Circuit	Managed Pressure Operations PTE Ltd	Singapore	11201608858Y	11201608858Y	
High Pressure Slip Joint	Managed Pressure Operations PTE Ltd	Singapore	201307836-5	194573	
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	Singapore	11201407064X	11201407064X	
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Singapore	11201600514P	11201600514P	
TCD Manifold	Managed Pressure Operations PTE Ltd	The Netherlands	11778537.8	2616629	
Floating Installation	Managed Pressure Operations PTE Ltd	The Netherlands	11705213.4	2539536	
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	The Netherlands	13708504.9	2825721	
Non-Stop Driller Connector	Managed Pressure Operations PTE Ltd	The Netherlands	10712476.0	2414620	
Total Control Driller	Managed Pressure Operations PTE Ltd	The Netherlands	10712082.6	2414619	
Riser Gas Handling	Managed Pressure Operations PTE Ltd	The Netherlands	13714960.5	2836666	
Ultra-mud gas separator	Managed Pressure Operations PTE Ltd	United Kingdom	1705972.6	2550283	
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	United Kingdom	1709520.9	2547871	
Leak rate across single seal sleeve	Managed Pressure Operations PTE Ltd	United Kingdom	1320695.8	2520533	
Mini DST Tool - Index Ball	Managed Pressure Operations PTE Ltd	United Kingdom	1310776.8	2503115	
Ultra-mud gas separator	Managed Pressure Operations PTE Ltd	United Kingdom	1610291.5	2537535	

Sealing element wear indicator system	Managed Pressure Operations PTE Ltd	United Kingdom	1612896.9		2537304
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	United Kingdom	1104885.7		2489265
46.5 Annular BOP DIV	Managed Pressure Operations PTE Ltd	United Kingdom	1706699.4		2549210
Fast Closing Annular BOP	Managed Pressure Operations PTE Ltd	United Kingdom	1204310.5		2500188
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	United Kingdom	1716635.6		2555239
Non-Stop Driller	Managed Pressure Operations PTE Ltd	United Kingdom	0905802.5		2469119
Connector	Managed Pressure Operations PTE Ltd	United Kingdom	1608724.9		2539790
Quick closing drilling diverter system and method	Managed Pressure Operations PTE Ltd	United Kingdom	1407072.6		2525396
Seal Integrity Circuit	Managed Pressure Operations PTE Ltd	United Kingdom	1207769.9		2501741
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	United Kingdom	2013441.7		2584262
Quick closing drilling diverter system and method - Div 2	Managed Pressure Operations PTE Ltd	United Kingdom	1322434.0		2521404
Gooseneck Details	Managed Pressure Operations PTE Ltd	United Kingdom	1406792.0		2526255
DKD automated well control	Managed Pressure Operations PTE Ltd	United Kingdom	2013449.0		2585541
Gooseneck Details	Managed Pressure Operations PTE Ltd	United Kingdom	2013438.3		2586541
Quick closing drilling diverter system and method - Div 1	Managed Pressure Operations PTE Ltd	United Kingdom	10752599.0		2478179
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	United Kingdom	1015408.6		2483671
TCD Manifold	Managed Pressure Operations PTE Ltd	United Kingdom	1217362.1		2506400
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	United Kingdom	09753169.3		2350432
Non Stop Driller	Managed Pressure Operations PTE Ltd	United Kingdom			

OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	United Kingdom	13780386.2		2909422
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	United Kingdom	11788210.0		2640931
Visco Driller	Managed Pressure Operations PTE Ltd	United Kingdom	11788211.8		2640927
Floating Installation	Managed Pressure Operations PTE Ltd	United Kingdom	11705213.4		2539536
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	United Kingdom	16707521.7		3262272
2-Part NSD	Managed Pressure Operations PTE Ltd	United Kingdom	14710350.1		2964872
2-Part NSD DIV	Managed Pressure Operations PTE Ltd	United Kingdom	17171559.2		3236002
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	United Kingdom	12713270.2		2689097
Fast Closing Annular Bop	Managed Pressure Operations PTE Ltd	United Kingdom	13708504.9		2825721
Influx Volume Reduction System	Managed Pressure Operations PTE Ltd	United Kingdom	1416032.9		2515419
Non-Stop Driller	Managed Pressure Operations PTE Ltd	United Kingdom	16200505.2		3156583
Connector	Managed Pressure Operations PTE Ltd	United Kingdom	10712082.6		2414619
Total Control Driller	Managed Pressure Operations PTE Ltd	United Kingdom	11716995.3		2558676
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	United Kingdom	12720942.7		2699757
High Pressure Slip Joint	Managed Pressure Operations PTE Ltd	United Kingdom	13714960.5		2836666
Riser Gas Handling	Managed Pressure Operations PTE Ltd	United Kingdom	1313139.6		2516468
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	United Kingdom	1315123.8		2517498
Grease Seal for Fluid Contamination Control	Managed Pressure Operations PTE Ltd	USA	13/640933		9212532
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	USA	13/262655		9284800
Non-Stop Driller	Managed Pressure Operations PTE Ltd	USA	13/822914		9388650
TCD Manifold	Managed Pressure Operations PTE Ltd	USA	14/178509		9458696
Mini DSTTool - Index Ball	Managed Pressure Operations PTE Ltd	USA			

46.5 Annular BOP	Managed Pressure Operations PTE Ltd	USA	14/006533		9488031
Quick closing drilling diverter system and method	Managed Pressure Operations PTE Ltd	USA	14/572448		9500053
High Pressure Slip Joint	Managed Pressure Operations PTE Ltd	USA	14/112868		9506300
Top Drive & Mud Pump Control Interaction	Managed Pressure Operations PTE Ltd	USA	13/885974		9506336
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	USA	14/431917		9506305
RDD Sealing Elements	Managed Pressure Operations PTE Ltd	USA	14/006827		9605504
Riser Gas Handling	Managed Pressure Operations PTE Ltd	USA	14/394038		9605502
Gooseneck details	Managed Pressure Operations PTE Ltd	USA	15/105571		9719310
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	USA	15/294798		9759024
(continuation) Quick closing drilling diverter system and method	Managed Pressure Operations PTE Ltd	USA	15/297141		9845649
Fracture Gradient & Pore Pressure Determination - Continuation	Managed Pressure Operations PTE Ltd	USA	13/667813		8657034
Viscodriller	Managed Pressure Operations PTE Ltd	USA	13/223676		8684109
Leak rate across single seal sleeve	Managed Pressure Operations PTE Ltd	USA	14/542776		10036227
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	USA	14/398617		10138693
Sealing element wear indicator system	Managed Pressure Operations PTE Ltd	USA	15/113438		10174577
Floating Installation	Managed Pressure Operations PTE Ltd	USA	13/580844		8973674
2-Part NSD	Managed Pressure Operations PTE Ltd	USA	14/772267		10246958

Fast Closing Annular BOP	Managed Pressure Operations PTE Ltd	USA	13/443332		9004178
Influx Volume Reduction System	Managed Pressure Operations PTE Ltd	USA	14/384619		10309191
Total Control Driller	Managed Pressure Operations PTE Ltd	USA	13/262595		9051803
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	USA	15/536658		10316607
OCD Hydraulic Clamp	Managed Pressure Operations PTE Ltd	USA	14/436783		10344547
Ultra-mud gas separator	Managed Pressure Operations PTE Ltd	USA	14/572492		10435966
DKD automated well control	Managed Pressure Operations PTE Ltd	USA	15/304068		10443329
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	USA	15/565905		10605048
Non Stop Driller #2	Managed Pressure Operations PTE Ltd	USA	12/425173		8210266
Leak rate across single seal sleeve - DIV	Managed Pressure Operations PTE Ltd	USA	16/021021		10711558
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	USA	15/552806		10724315
Fracture Gradient & Pore Pressure Determination	Managed Pressure Operations PTE Ltd	USA	12/882344		8360170
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Brazil	BR1120170127873		
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Brazil	BR1120170180367		
Annular Stripping Sleeve	Managed Pressure Operations PTE Ltd	Brazil	BR1120120263129		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Brazil	BR112017021940-9		
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Canada	2971085		
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Canada	2977304		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Canada	2982694		
Zero Equivalent Circulating Density Drilling Method - Div	Managed Pressure Operations PTE Ltd	Europe			

RDD Sealing Elements	Managed Pressure Operations PTE Ltd	Europe	11779478.4		
46.5 Annular BOP DIV A	Managed Pressure Operations PTE Ltd	Europe	19154566.4		
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Europe	14725534.3		
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	Europe	13771200.6		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Indonesia	PI201707772		
2-Part NSD	Managed Pressure Operations PTE Ltd	Malaysia	PI2015702928		
2-Part NSD	Managed Pressure Operations PTE Ltd	Malaysia	PI2021000102		
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Malaysia	PI2017000906		
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Malaysia	PI2017001258		
2-Part NSD - Div	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2019/008315		
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2017/007849		
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2016/000817		
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2017/010831		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2017/013076		
Zero Equivalent Circulating Density Drilling Method	Managed Pressure Operations PTE Ltd	Mexico	MX/a/2015/004003		
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	Norway	20171098		
Leak rate across single seal sleeve	Managed Pressure Operations PTE Ltd	Norway	20161032		
Gooseneck details	Managed Pressure Operations PTE Ltd	Norway	20161185		
Ultra-mud gas separator	Managed Pressure Operations PTE Ltd	Norway	20161082		
Sealing element wear indicator system	Managed Pressure Operations PTE Ltd	Norway	20161284		

D/D automated well control	Managed Pressure Operations PTE Ltd	Norway	20161742		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	Norway	20171771		
Seal Integrity Circuit	Managed Pressure Operations PTE Ltd	Norway	20161826		
2-Part NSD DIV	Managed Pressure Operations PTE Ltd	Singapore	10201704474U		
46.5 Annular BOP	Managed Pressure Operations PTE Ltd	Singapore	10201601970R		
Gooseneck details - Div	Managed Pressure Operations PTE Ltd	Singapore	10201902762T		
Quick closing drilling diverter system and method - Div	Managed Pressure Operations PTE Ltd	Singapore	10201900236Q		
Annular BOP sealing element	Managed Pressure Operations PTE Ltd	UAE	P6000723/2017		
Modified Riser Pumping	Managed Pressure Operations PTE Ltd	UAE	P6001065/2017		
Riser Pressure Relief System	Managed Pressure Operations PTE Ltd	UAE	P6001303/2017		
Differential Pressure - Proof OCD Actuator	Managed Pressure Operations PTE Ltd	USA	14/902137		
Seal Integrity Circuit	Managed Pressure Operations PTE Ltd	USA	15/305349		
Sealing element wear indicator system	Managed Pressure Operations PTE Ltd	USA	16/207209		
Influx Management & Choke Control	Managed Pressure Operations PTE Ltd	USA	16/166174		11035184
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Australia	2014235631		2014235631
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Brazil	BR1120150236154		
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	United Kingdom	14769570.4	2971442	2971442
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Norway	14769570.4	2971442	2971442
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Europe	14769570.4	2971442	2971442
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Malaysia	PI 2015703219		MY-173238-A

DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	Singapore	11201507543R		11201507543R
DRILLING RISER ASSEMBLIES	Ameriforge Group, Inc.	USA	14/776674	US 2016-0032662 A1	10301886
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Brazil	1120150276342		
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Canada	2911285		2911285
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Germany	14791083.0	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	France	14791083	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	United Kingdom	14791083.0	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Netherlands	14791083	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Norway	14791083.0	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Europe	14791083	2992161	2992161
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Europe	19197582.0	EP 3 604 731	
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	Singapore	10201709056W	10201709056W	10201709056W
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	USA	14/888884	US 2016-0076323 A1	9970247
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	USA	15/910902	US 2018-0320466 A1	10689929
MPD-CAPABLE FLOW SPOOLS	Ameriforge Group, Inc.	USA	16/906725	US 2020-0347685 A1	
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	Brazil	1120150276458		
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	Canada	2911287		2911287

LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	Canada	3092241		
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	Europe	14791006.1	2992166	
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	Singapore	10201709063P	10201709063P	10201709063P
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	USA	14/888894	US 2016-0076312 A1	10012031
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	USA	15/596781	US 2017-0247970 A1	9909379
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	USA	15/910770	US 2018-0245416 A1	10392890
LARGE-WIDTH/DIAMETER RISER SEGMENT LOWERABLE THROUGH A ROTARY OF A DRILLING RIG	Ameriforge Group, Inc.	USA	16/512761	US 2020-0182002 A1	

DRILLING RISER FLANGES AND ASSEMBLIES WITH CONTOURED BEARING SURFACES TO REDUCE SHEAR IN CONNECTORS	Ameriforge Group, Inc.	USA	15/128770	US 2017-0175937 A1	10520120
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	Ameriforge Group, Inc.	Brazil	BR1120170014157	1120170014157	
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	Ameriforge Group, Inc.	Canada	2970481		
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	Ameriforge Group, Inc.	Singapore	11201700511Y		11201700511Y
MULTIPLE FAILURE MODE CLAMPS AND RELATED METHODS	Ameriforge Group, Inc.	USA	15/327949	US 2017-0204997 A1	10174869
CONNECTION APPARATUS FOR TELESCOPIC JOINT	Ameriforge Group, Inc.	USA	15/947264	US 2018-0292037 A1	10781956
SPLITTABLE RISER COMPONENT	Ameriforge Group, Inc.	Brazil	1120190208569	1120190208569	
SPLITTABLE RISER COMPONENT	Ameriforge Group, Inc.	Canada	3058656		
SPLITTABLE RISER COMPONENT	Ameriforge Group, Inc.	Europe	18720880.6	3607166	
SPLITTABLE RISER COMPONENT	Ameriforge Group, Inc.	USA	15/947244	US 2018-0320458 A1	10655403
SPLITTABLE RISER COMPONENT	Ameriforge Group, Inc.	USA	16/863672	US 2020-0284102 A1	
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	Brazil	1120190209425	112019029425	
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	Canada	3058658		
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	Europe	18720883.0	3607170	
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	USA	15/947266	US 2018-0320453 A1	10612317
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	USA	16/841282	US 2020-0232286 A1	10837239
INTEGRAL DSIT & FLOW SPOOL	Ameriforge Group, Inc.	USA	17/088921	US 2021-0115738 A1	

EXHIBIT C

MEMORANDUM OF TRADEMARK ASSIGNMENT

This Trademark Assignment from:

- (a) **Ameriforge Group Inc. d/b/a AFGlobal Corporation**, a Texas corporation ("US Assignor"); and
- (b) **Managed Pressure Operations Pte. Ltd.**, a company organized in Singapore ("Singapore Assignor," and together with "US Assignor," "Assignors"),

to:

- (c) **Grant Prideco, Inc.**, a Delaware corporation (the "Assignee"),

is effective November 16, 2021 ("Effective Date").

RECITALS

- A. Assignors own the trademark applications and registrations set forth in the attached Appendix A (the "Marks"); and
- B. Assignee desires to acquire Assignors' right, title, and interest in and to the Marks.

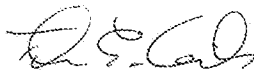
ASSIGNMENT

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors' entire right, title, and interest in and to the Marks, together with the good will of Assignors' businesses in which the Marks are used, or with that part of the good will of such businesses connected with the use of and symbolized by the Marks, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect, including all rights of priority associated with the foregoing, and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignors if this Agreement had not been executed, together with all income, royalties, or payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity), with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.


[Signature pages follow.]

ASSIGNORS:

MANAGED PRESSURE OPERATIONS PTE. LTD.

By: 
Name: Thomas E. Giles
Title: Authorized Person

AMERIFORGE GROUP INC. D/B/A AFGLOBAL CORPORATION

By: 
Name: Thomas E. Giles
Title: Authorized Person

ASSIGNEE:

GRANT PRIDECO, INC.

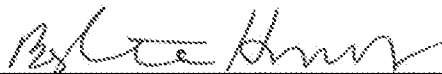
By: 
Name: Brigitte Hunt
Title: Vice President

EXHIBIT D

MEMORANDUM OF PATENT ASSIGNMENT

This Patent Assignment from:

- (a) **Ameriforge Group Inc. d/b/a AFGlobal Corporation**, a Texas corporation (“US Assignor”); and
- (b) **Managed Pressure Operations Pte. Ltd.**, a company organized in Singapore (“Singapore Assignor,” and together with US Assignor, “Assignors”);

to:

- (c) **Grant Prideco, Inc.**, a Delaware corporation (the “Assignee”),

is effective November 16, 2021 (“Effective Date”).

RECITALS

- A. Assignors own the patent applications and patents set forth in the attached **Appendix A** (the “Patents”); and
- B. Assignee desires to acquire Assignors’ right, title, and interest in and to the Patents.

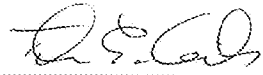
ASSIGNMENT

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignors hereby sell, assign, transfer, and set over to Assignee, Assignors’ entire right, title, and interest in and to the Patents, including any and all continuations, divisionals, continuations in part applications, renewals, reexaminations, and extensions of each such Assigned Patent, together with all rights of registration, maintenance, and protection thereof in any form, all rights to income, royalties, damages, and payments due or payable on and after the Effective Date, and all claims and causes of action against third parties arising out of the past, present, and/or future infringement or other unauthorized use (including all damages and other remedies recoverable thereby, whether at law or in equity), involving such Patents.

[Signature pages follow.]

ASSIGNORS:


MANAGED PRESSURE OPERATIONS PTE. LTD.

By: 

Name: Thomas E. Giles

Title: Authorized Person

AMERIFORGE GROUP INC. D/B/A AFGLOBAL CORPORATION


By: 

Name: Thomas E. Giles

Title: Authorized Person

ASSIGNEE:

GRANT PRIDECO, INC.

By: 

Name: Brigitte Hunt

Title: Vice President