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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5310199

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|---|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the CONVEYING PARTY DATA, RECEIVING PARTY DATA & PROPERTY NUMBERS previously recorded on Reel 046992 Frame 0360. Assignor(s) hereby confirms the ASSIGNMENT. |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| VALLOUREC OIL AND GAS FRANCE | 04/25/2018 |
| RECEIVING PARTY DATA | |
| Name: | TUBOSCOPE VETCO (FRANCE) SAS |
| Street Address: | COMBLE DU PRE PIEMARD - B.P 36 |
| City: | BERLAIMONT |
| State/Country: | FRANCE |
| Postal Code: | 59145 |
| PROPERTY NUMBERS Total: 4 | |
| Property Type | Number |
| Application Number: | 14366398 |
| Application Number: | 15524655 |
| Application Number: | 13121963 |
| Application Number: | 14364516 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)238-8008 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 713-238-8000 |
| Email: | cjoss@conleyrose.com, pathou@conleyrose.com |
| Correspondent Name: | CONLEY ROSE, P.C. |
| Address Line 1: | 575 N. DAIRY ASHFORD ROAD |
| Address Line 2: | SUITE 1102 |
| Address Line 4: | HOUSTON, TEXAS 77079 |
| ATTORNEY DOCKET NUMBER: | 3314-VALLOUREC |
| NAME OF SUBMITTER: | CORINNA L. JOSS |
| SIGNATURE: | /Corinna L. Joss/ |
| DATE SIGNED: | 01/04/2019 |

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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5122091

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--|-----------------------|
| VALLOUREC OIL AND GAS FRANCE | 04/25/2018 |
| VALLOUREC DEUTSCHLAND GMBH | 04/25/2018 |
| VALLOUREC DRILLING PRODUCTS FRANCE | 04/25/2018 |
| VALLOUREC DRILLING PRODUCTS USA, INC. | 04/25/2018 |

RECEIVING PARTY DATA

| | |
|------------------------|---------------------------------------|
| Name: | TUBOSCOPE VETCO (FRANCE) SAS |
| Street Address: | COMBLE DU PRE PIEMARD - B.P 36 |
| City: | BERLAIMONT |
| State/Country: | FRANCE |
| Postal Code: | 59145 |
| Name: | GRANT PRIDECO L.P. |
| Street Address: | 7909 PARKWOOD CIRCLE DRIVE |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77036 |

PROPERTY NUMBERS Total: 10

| Property Type | Number |
|---------------------|---------------------|
| Application Number: | 14366398 |
| Application Number: | 14346220 |
| Application Number: | 13689239 |
| Application Number: | 15106477 |
| Application Number: | 15524655 |
| Application Number: | 13121963 |
| Application Number: | 14364516 |
| Application Number: | 13060965 |
| Application Number: | 13384708 |
| Application Number: | 13751866 |

CORRESPONDENCE DATA

Fax Number: (713)238-8008

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: 7132388000

Email: pathou@conleyrose.com, lmcbyrde@conleyrose.com

Correspondent Name: CONLEY ROSE PC

Address Line 1: 575 N. DAIRY ASHFORD RD.

Address Line 2: SUITE 1102

Address Line 4: HOUSTON, TEXAS 77079

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| ATTORNEY DOCKET NUMBER: | 3314-VALLOUREC |
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|---------------------------|-----------------|
| NAME OF SUBMITTER: | GREGORY L. MAAG |
|---------------------------|-----------------|

| | |
|-------------------|-------------------|
| SIGNATURE: | /GREGORY L. MAAG/ |
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|---------------------|------------|
| DATE SIGNED: | 09/02/2018 |
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Total Attachments: 44

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**AGREEMENT FOR THE ASSIGNMENT OF TRADE MARKS AND
PATENTS TO NOV**

This Agreement is made on 25 April, 2018 (hereinafter the "Effective Date").

BETWEEN THE UNDERSIGNED:

VALLOUREC OIL AND GAS FRANCE, a *société par actions simplifiée*, duly organized and existing under the laws of France, having its registered office at 54 rue Anatole France, 59620 Aulnoye-Aymeries, France, represented by Frederic Arnou duly empowered (hereinafter "VOGF"), formerly known as Vallourec Mannesmann Oil & Gas France;

VALLOUREC DEUTSCHLAND GmbH, duly organized and existing under the laws of Germany, having its registered office at Theodorstraße 109, 40472 Düsseldorf, represented by Frederic Arnou duly empowered (hereinafter "VAD"), formerly known as V&M Deutschland GmbH and successor-in-interest to Vallourec Mannesman Oil & Gas Germany GmbH,

VALLOUREC DRILLING PRODUCTS FRANCE, duly organized and existing under the laws of France, having its registered office at 5 rue des Guérins - B.P. 45, 58200 Cosne-Cours-sur-Loire, France, represented by Frederic Arnou duly empowered (hereinafter "VDPF"), formerly known as VAM Drilling France and successor-in-interest to Société de Matériel de Forage Industriel (hereinafter "SMFI"),

VALLOUREC DRILLING PRODUCTS USA, INC., duly organized and existing under the laws of Delaware, having its registered office at 6300 Navigation Blvd., Houston, TX 77011, USA, represented by Frederic Arnou duly empowered (hereinafter "VDP USA"), formerly known as VAM Drilling USA, Inc. VDP USA is also the assignee of certain intellectual property assets from OMSCO Inc., a Delaware corporation,

Each of VOGF, VAD, VDPF and VDP USA hereinafter referred to as an "Assignor" and together the "Assignors"

on the one hand

AND:

TUBOSCOPE VETCO (FRANCE) SAS, a French *société par actions simplifiée*, duly organized and existing under the laws of France, having its registered office at comble du Pré Piémard - B.P 36 - 59145 Berlaimont, France, represented by Trevor Brian Martin in his capacity as Managing Director ("Tubo France"), and

GRANT PRIDECO, L.P., a Delaware limited partnership having its principal place of business at 7909 Parkwood Circle Drive, Houston, Texas 77036 USA, represented by Trevor Brian Martin in his capacity as Manager of Grant Prideco Holding LLC, the general partner of Grant Prideco, L.P. ("GP").

Each of Tubo France and GP hereinafter referred to as an "Assignee" and together the "Assignees"

on the other hand

hereinafter individually or collectively referred to as "Party" or "Parties."

WHEREAS:

National Oilwell Varco, L.P. and Vallourec Tubes SAS entered into a master sale agreement for the global sale and purchase of the global business division referred to as Vallourec Drilling Products (VDP) (the "VDP Business"), which consists of developing, manufacturing and selling (a) drill pipe, (b) drill collars, (c) heavy weight drill pipe, and drilling accessories and tools such as (d) drilling pup joints, (e) landing strings based on drill pipe designs, (f) risers based on drill pipe designs, and (g) rotary kellys or rotary substitutes worldwide, on 29 March, 2018 (the "Master Sale Agreement").

In this context, the Assignors have agreed to assign to the Assignees the full and absolute title in certain trademarks, patents, patent applications and domain names.

The Parties have come together and have agreed to the following.

IT IS AGREED AS FOLLOWS:

ARTICLE 1 - DEFINITIONS

For the purposes of this Agreement, each of the expressions referred to below shall have the meaning ascribed to it in its definition, namely:

Affiliate means any business entity more than 50% owned by a Party, any business entity which owns more than 50% of a Party, or any business entity that is more than 50% owned by a business entity that owns more than 50% of a Party. An entity remains an Affiliate only so long as such ownership interests remains greater than 50%.

Agreement means this agreement for the assignment of the Domain Names, Trade Marks and Patents and, as the case may be, its amendments.

Appendices mean the appendices attached to this Agreement.

Assigned Patents means the patents listed in Appendix B1 to this Agreement.

Assignee and **Assignees** have the meanings set forth in the preamble to this Agreement.

Assignor and **Assignors** have the meanings set forth in the preamble to this Agreement.

Baker Hughes means Baker Hughes, a GE company or an Affiliate thereof.

Competing Business means the business of manufacturing and selling (a) drill pipe, except for forged non-welded drill pipe for non-oil and gas markets, (b) drill collars, (c) heavy weight drill pipe, except for forged non-welded heavy weight drill pipe, (d) drilling pup joints, (e) landing strings based on drill pipe designs, (f) risers based on drill pipe designs, and (g) rotary kellys or rotary substitutes;

Documentation has the meaning set forth in the Article 2.6 of this Agreement.

Domain Names means the domain names that are described in Appendix C to this Agreement.

Effective Date means the date upon which this Agreement takes effect, i.e. the date set out on the first page of this Agreement provided all Parties have executed the Agreement.

GP has the meaning set forth in the preamble to this Agreement.

Licensed-back Items means the Patents that are licensed-back by the Assignee to the Assignor listed in Appendix D to this Agreement.

Lump Sum shall have the meaning ascribed to it under Article 5 of this Agreement.

Master Sale Agreement has the meaning set forth in the recitals to this Agreement.

OCTG means Oil Country Tubular Goods.

Party and **Parties** have the meanings set forth in the preamble to this Agreement.

Patents means the patent applications and the registered patents, including all reissues or extensions as well as any patents, reissues or extensions that may issue from foreign applications, divisions, continuations in whole or in part or substitute applications claiming the benefit thereof, as described in Appendix B1 to this Agreement. This term includes the Assigned Patents and the Potentially Assigned Patents.

Perpetual means for the whole remaining duration of protection of the Patents and Trade Marks.

Potentially Assigned Patents means the patent applications and the registered patents as described in Appendix B2 to this Agreement. The assignment of these Patents is subject to the condition precedent set out under Article 2.2 of this Agreement.

Practice(ing) means:

- manufacture the Products, cause the Products to be manufactured, have the Products manufactured;
- offer the Products for sale, cause the Products to be offered for sale, have the Products offered for sale;
- sell the Products, cause the Products to be sold, have the Products sold;

- lease the Products, cause the Products to be leased, have the Products leased;
- loan the Products, cause the Products to be loaned, have the Products loaned;
- distribute the Products, cause the Products to be distributed, have the Products distributed;
- use the Products, cause the Products to be used, have the Products used;
- import/export the Products, cause the Products to be imported/exported, have the Products be imported/exported; and
- dispose of the Products, cause the Products to be disposed, have the Products disposed.

Products mean any and all apparatuses, machines, and systems, in particular forging machines, implementing, supplied or used under the Licensed-back Items.

SMFI has the meaning set forth in the preamble to this Agreement.

Territory means all the territories in which the Trade Marks, the Patents, the Licensed-back Items are in force as they are identified respectively in the tables provided under Appendix A, Appendix B1, Appendix B2, and Appendix D to this Agreement.

Trade Marks means the registered Trade Marks (or applications thereof) listed in Appendix A to this Agreement.

Tubo France has the meaning set forth in the preamble to this Agreement.

VAD has the meaning set forth in the preamble to this Agreement.

VDP Business has the meaning set forth in the recitals to this Agreement.

VDPF has the meaning set forth in the preamble to this Agreement.

VDP USA has the meaning set forth in the preamble to this Agreement.

VMD has the meaning set forth in the preamble to this Agreement.

VOGF has the meaning set forth in the preamble to this Agreement.

ARTICLE 2 – SUBJECT MATTER OF THE ASSIGNMENT

2.1 In consideration of the Assignees' undertaking to pay the Lump Sum:

- (i) Each of VAD, VDPF, and VOGF hereby assigns, transfers, and sets over to Tubo France, which accepts, (A) full and absolute title and interest to the Trade Marks, Domain Names and the Patents owned by such Assignor; (B) the unionist priority right attached to such Patents and Trade Marks; and (C) the right to file any proceedings for any act of infringement, unfair

competition, passing off or parasitism of goodwill occurring prior to or following the Effective Date in relation to such Trade Marks, Domain Names and/or Patents;

(ii) VDP USA hereby assigns, transfers, and sets over to GP, which accepts, (i) full and absolute title and interest to the Trade Marks and the Patents owned by such Assignor; (ii) the unionist priority right attached to such Patents and Trade Marks; and (iii) the right to file any proceedings for any act of infringement, unfair competition, passing off or parasitism of goodwill occurring prior to or following the Effective Date in relation to such Trade Marks and/or Patents;

(iii) If it is discovered after the Effective Date that an Affiliate of the Assignors that is not party to this Agreement owns any of the Patents or Trade Marks or Domain Names, the Assignors agree to promptly procure the assignment by such Affiliate to the relevant Assignee at the Assignors' cost and expense; and

(iv) The relevant Assignee shall, as of the Effective Date, be solely subrogated in all and any rights, claims and privileges to which relevant Assignor is entitled over such Trade Marks and the Patents and shall acquire absolute title to, and be entitled to undisturbed enjoyment of, such Trade Marks and the Patents which it may use unconditionally in the future.

2.2 Subject to the condition precedent of clearing the right of first refusal of Baker Hughes, the provisions of Article 2.1 above will apply *mutatis mutandis* to the Potentially Assigned Patents upon the earlier to occur of (i) forty-five (45) days after receipt of notice by Baker Hughes of the relevant Assignor's intent to transfer the Potentially Assigned Patents to the relevant Assignee, if Baker Hughes has not responded within such timeframe that it wishes to exercise its right of first refusal with respect to the Potentially Assigned Patents and (ii) receipt by the Assignors of confirmation from Baker Hughes that it does not intend to exercise any right of first refusal with respect to the Potentially Assigned Patents. The Assignors shall promptly notify Assignees of any confirmation received from Baker Hughes in relation to the foregoing clause (ii).

2.3 The Assignors authorize the United States Patent and Trademark Office and any other applicable jurisdiction outside the United States to record the transfer of the Patents to the relevant Assignee as recipient of the relevant Assignor's right, title and interest therein.

2.4 The Assignors further agree to: (a) for a period of six (6) months after the Effective Date, cooperate with the Assignees in the prosecution and maintenance of the rights associated with the Patents 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 Assignees lawfully may request to obtain or maintain the Patents in any and all countries.

If certain Trade Marks or Patents are still registered under a former company's name of the Assignors or of the Vallourec Group, the Assignors shall promptly carry out, at the Assignors' reasonable cost, the necessary steps and formalities to regularize the situation. As soon as the change in name has been officially registered, the Assignors shall inform the Assignees thereof.

2.6 The Assignors undertake to hand over to the Assignees, promptly after the Effective Date (and in no event later than sixty (60) days after the Effective Date), all documents, technical studies, plans, diagrams, gauges, know-how as well as all prototypes, relating to the Patents, the products and/or processes protected by the Patents allowing the Assignees full use of the Patents (the "**Documentation**"). The Assignors hereby grant to the Assignees any and all rights of reproduction, representation and adaptation that they hold with respect to the Documentation, on any medium of expression, whether existing or to be discovered. Such rights comprise, in particular:

- the right to reproduce, without limitation in number, all or part of the Documentation, by all currently known or unknown processes in all media whatsoever currently known or unknown;
- the right to transmit the originals, duplicates or copies of the Documentation;
- the right to digitalise the Documentation, to store in all media, compress, decompress or use all other similar technical processes with respect to any of the Documentation for its storage, transfer and/or exploitation;
- the right to communicate, publish and to make the Documentation available to the public in any form whatsoever, by all means, modes and processes currently known or unknown;
- the right at its own risk and peril to modify, adapt, translate, integrate, improve and rectify the Documentation.

ARTICLE 3 – LICENSE BACK TO ASSIGNOR

The relevant Assignees hereby grant the relevant Assignors in return a non-exclusive, royalty-free, irrevocable, Perpetual license to use and Practice in the Territory the Licensed-back Items with the right to grant sub-licenses for any purposes outside the VDP Business, including in the field of use of the OCTG business of the Assignors or their Affiliates, so long as such use is outside of the Competing Business.

ARTICLE 4 – UNREGISTERED TRADE NAMES

4.1 The Assignors will not file any claims in particular claims for infringement, unfair competition, passing off, and parasitism on goodwill against the Assignees if the latter use the following words in connection with the VDP Business:

- Express;

- EIS;
- CDS
- Express-M2M;
- DPR SR;
- DPR HP;
- EasyLanding

The Assignors further accept that the Assignees may take steps to secure the registration of trademarks with respect to these words (either alone or in combination with other marks) for products and services related to the VDP Business, as long as it is not in association with a mark likely to cause confusion with the trademark VAM®.

Furthermore, the Assignors undertake not to use in the course of trade the registered trademark VAM® with the above-mentioned words in connection with products and services similar or identical to those sold by the Assignee as for example:

- VAM® Express
- VAMEIS®
- VAM® CDS

4.2 The corresponding logos, designed after the VAM® graphic charter, are the work product of VOGF. VOGF remains the owner of the copyright in these logos. No rights of use are provided to the Assignees with respect to the following logos:

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4.3 Trade names of the Assignors or any of their Affiliates in their proprietary steel grades shall remain proprietary to the Assignors and their Affiliates, including but not limited to the following trade names: VM-95 DP; VM-105 DP.

ARTICLE 5 – PRICE

The price of the Master Sale Agreement includes the lump sum remuneration to be paid by the Assignees or their Affiliates in consideration of the assignment of the Trade Marks and the Patents contemplated under this Agreement (hereinafter the “Lump Sum”).

ARTICLE 6 -- WARRANTIES AND INDEMNITIES

6.1 The Assignors warrant the following:

6.1.1 one of the relevant Assignors is the owner of the entire right, title, and interest, as of the Effective Date, the Trade Marks and the Patents, other than patents co-owned with the Association pour la Recherche et le Développement de Méthodes et Processus Industriels;

6.1.2 no Assignor has granted over the Trade Marks and the Patents any pledge, mortgage or security in favour of a third party;

6.1.3 the Trade Marks and the Patents are currently valid and all appropriate duties and fees due until the Effective Date, including, in particular, those relating to filing and/or renewal, have been paid, it being understood that the Assignees shall be responsible for paying all future fees as from the Effective Date;

6.1.4 one of the relevant Assignors has the sole right and authority to enter into this Agreement and grant the rights hereunder,

6.1.5 there is no action or proceeding pending or threatened, or any basis for any of the foregoing Articles 6.1.1 through 6.1.4 known to the Assignors;

6.1.6 the performance of the Assignors' duties under this Agreement and the Assignors' duties with the Assignees will not breach, or constitute default under, any agreement to which an Assignor is bound, including any agreement limiting the use or disclosure of proprietary or confidential information of another company, except for the right of the Association pour la Recherche et le Développement de Méthodes et Processus Industriels under that certain patent co-ownership agreement, pursuant to which such party has a right to purchase VDPF's ownership interest in Patents BR9326-AE-PCT, BR9326-BR-PCT, BR9326-CN-PCT, BR9326-FR-BN, BR9326-NO-PCT and BR9326-US-PCT, until the expiration date of these Patents.

6.2 All the above-mentioned warranties are accurate and genuine, and that the Assignors have not voluntarily omitted to inform the Assignees of relevant information which might affect the Trade Marks or the Patents.

6.3 Other than as set forth in the Master Sale Agreement, no warranties other than those mentioned under the Article 6 above are given by the Assignors to the Assignee.

In particular, the Assignees hereby expressly acknowledge and agree that the Assignors make no representation or warranty, whether expressed or implied, regarding:

- total or partial refund of the Lump Sum and any of other complementary costs or fees paid by the Assignees under this Agreement or in connection with the Trade Marks, the Patents or the Domain names,

in the event any Trade Marks or Patents or Domain Names are annulled or expire after the Effective Date; or

- the fitness of Trade Marks, the Patents, the Domain Names or the Documentation for a particular purpose.

ARTICLE 7 – INFRINGEMENT

7.1 The Assignees shall defend themselves, at their own costs and expense, against all claims and proceedings initiated by any third parties in connection with the use of the Trade Marks, the Domain Names and the Patents occurring on or after the Effective Date, including claims and proceedings for infringement, unfair competition, passing off or parasitism on goodwill. The foregoing shall not limit the Parties rights or obligations under the terms of the Master Sale Agreement.

7.2 The Assignees may bring as they deem fit, at their own cost and expense, any claims and proceeding against any third parties for any act of infringement, unfair competition, passing off or parasitism on goodwill in connection with the use of the Trade Marks and the Patent prior or after the Effective Date.

7.3 The Assignors will provide the Assignees with all reasonable assistance required for the purpose of defending the Assignees' rights. The Assignees shall bear all the costs and expenses in connection with such assistance.

ARTICLE 8 – MISCELLANEOUS OBLIGATIONS AND FORMALITIES

The Assignees shall carry out all formalities required for the purpose of making this Agreement enforceable against third parties in all countries within the Territory and shall alone bear the cost thereof.

ARTICLE 9 – REGISTRATION TAX

The Assignees are responsible for and must pay all tax registration duties and any other taxes, as the case may be, arising as a result of this Agreement.

ARTICLE 10 - CONTRACTUAL DOCUMENTS

10.1 The Agreement shall comprise the following contractual documents, set out in their order of priority:

10.1.1 the Master Sale Agreement;

10.1.2 this Agreement; and

10.1.3 the Appendices.

10.2 In the event of any discrepancy, the document highest in order of priority shall prevail.

ARTICLE 11 - SEVERABILITY

- 11.1 In the event that any provision whatsoever of this Agreement is annulled, such nullity shall not render invalid any other provisions of the Agreement which shall continue to apply among the Parties.
- 11.2 If, for any reason whatsoever, the assignment of one of the Trade Marks or Patents under the terms of this Agreement is annulled, the assignments relating to the other Trade Marks and the Patents shall remain in force.

ARTICLE 12 - AMENDMENT OF THE AGREEMENT

Any amendment under this Agreement shall only be valid after the Parties have given their written and signed consent thereto.

ARTICLE 13 - ASSIGNMENT

No Assignor may assign this Agreement without the prior written consent of the Assignees, and no Assignee may assign this Agreement without the prior written consent of the Assignors, in each case, not to be unreasonably withheld or delayed. A corporate reorganization or merger among Affiliates of such Parties shall not constitute an assignment of this Agreement.

ARTICLE 14 - PREVIOUS AGREEMENTS

This Agreement cancels and replaces all the previous agreements signed among the Parties in relation to the Trade Marks or the Patents.

ARTICLE 15 - NOTICES

All notices to be given in connection with this Agreement shall be deemed to have been given if they have been sent by registered post with acknowledgement of receipt, DHL, or email to the following addresses:

To the Assignors

Attn: Directeur Juridique Groupe et Secrétaire Général
Vallourec Tubes SAS
27 avenue du Général Leclerc
92660 Boulogne-Billancourt-Cedex (France)
Email: Stephanie.fougou@vallourec.com

Copy:
Attn: Group Senior Legal Manager
Legal Department
And
General Manager IP
Department of Industrial
27, avenue du Général Leclerc
92660 Boulogne-Billancourt-Cedex (France)

Email: anais.eiden@vallourec.com;
richard.marsolais@vallourec.com

To the Assignee

National Oilwell Varco, L.P.
Attn: General Counsel
7909 Parkwood Circle Drive
Houston, Texas 77036 USA
Email: craig.weinstock@nov.com; pete.vranderic@nov.com;
jeremy.tillman@nov.com

Or to any other person or address that may be specified from time to time by the Parties.

ARTICLE 16 – GOVERNING LAW

This Agreement shall be governed by the laws of France.

ARTICLE 17 – JURISDICTION

The courts of Paris shall have exclusive jurisdiction to settle any dispute arising in connection with the creation, interpretation or performance of this Agreement, notwithstanding cases of multiple defendants or third-party proceedings.

ARTICLE 17 - APPENDICES

This Agreement includes following appendices:

- Appendix A: List of Trade Marks
- Appendix B1: List of Patents
- Appendix B2: List of Potentially Assigned Patents
- Appendix C: Domain Names
- Appendix D: Licensed-back Items

[Signature Pages Follow.]

IN WITNESS WHEREOF, duly authorized representatives of the Parties have executed this Agreement as of the Effective Date in eight (8) originals.

ASSIGNORS

VALLOUREC OIL AND GAS FRANCE

By: _____ *f. Arnou*

Name: Frédéric Arnou

Title: MAA and Strategic Projects director

VALLOUREC DEUTSCHLAND GMBH

By: _____ *f. Arnou*

Name: Frédéric Arnou

Title: MAA and Strategic Projects director

VALLOUREC DRILLING PRODUCTS FRANCE

By: _____ *f. Arnou*

Name: Frédéric Arnou

Title: MAA and Strategic Projects director

VALLOUREC DRILLING PRODUCTS USA, INC.

By: _____ *f. Arnou*

Name: Frédéric Arnou

Title: MAA and Strategic Projects director

IN WITNESS WHEREOF, duly authorized representatives of the Parties have executed this Agreement as of the Effective Date in eight (8) originals.

ASSIGNEES

TUBOSCOPE VETCO (FRANCE) SAS

By: *Trevor Brian Martin*

Name: Trevor Brian Martin

Title: Managing Director

GRANT PRIDECO, L.P.

By: Grant Prideco Holding, LLC, its general partner

By: *Trevor Brian Martin*

Name: Trevor Brian Martin

Title: Manager

[SIGNATURE PAGE TO AGREEMENT FOR THE ASSIGNMENT OF TRADE MARKS AND PATENTS
To Nov]

APPENDIX A - TRADE MARKS

[See attached.]

Appendix A - Trademarks

| Mark Name | Status | Country | International Classes | Filed Date | Application Number | Registration Date | Registration Number | Owner | Owner registered name* |
|------------|--------------|--------------------------|-----------------------|------------|--------------------|-------------------|---------------------|-------|------------------------|
| CRUSHFREE | Allowed | Angola | 6 | 2014-05-19 | 40166 | | | VDPUS | VDPUS |
| CRUSHFREE | Allowed | Angola | 7 | 2014-05-19 | 40167 | | | VDPUS | VDPUS |
| CRUSHFREE | Registered | Brazil | 6 | 2014-05-23 | 907733670 | 2017-01-10 | 907733670 | VDPUS | VDPUS |
| CRUSHFREE | Registered | Brazil | 7 | 2014-05-23 | 907733697 | 2016-12-13 | 907733697 | VDPUS | VDPUS |
| CRUSHFREE | Application | Ghana | 6 | 2014-05-20 | 001220/2014 | | | VDPUS | VDPUS |
| CRUSHFREE | Application | Ghana | 7 | 2014-05-20 | 001221/2014 | | | VDPUS | VDPUS |
| CRUSHFREE | Application | Nigeria | 6 | 2014-05-21 | 2014/17917 | | | VDPUS | VDPUS |
| CRUSHFREE | Application | Nigeria | 7 | 2014-05-21 | 2014/17918 | | | VDPUS | VDPUS |
| CRUSHFREE | Registered | O.A.P.I. | 6,7 | 2014-05-18 | 3201401814 | 2014-10-31 | 79837 | VDPUS | VDPUS |
| CRUSHFREE | Registered | United States of America | 6,7 | 2013-11-26 | 88/129168 | 2015-08-25 | 4800389 | VDPUS | VDPUS |
| ERS 425 | Registered | Brazil | 6 | 1999-06-16 | 821724886 | 2003-09-09 | 800130180996 | VDPFR | VDF |
| ERS 425 | Registered | European Union IPO | 6 | 1999-06-09 | 001200641 | 2000-07-18 | 001200641 | VDPFR | VDF |
| ERS 425 | Registered | France | 6 | 1999-02-23 | 99/777693 | 1999-08-06 | 99/777693 | VDPFR | VDF |
| ERS 425 | Registered | Mexico | 6 | 1999-06-14 | 375322 | 1999-06-17 | 613970 | VDPFR | VDF |
| HYDROCLEAN | Registered | Brazil | 7 | 2001-05-29 | 823944417 | 2007-04-17 | 823944417 | VDPFR | VDPFR |
| HYDROCLEAN | Registered | Canada | 7 | 2001-03-18 | 1096443 | 2004-03-31 | TMA806766 | VDPFR | VDPFR |
| HYDROCLEAN | Registered | European Union IPO | 7 | 1999-03-23 | 001114313 | 2000-10-03 | 001114313 | VDPFR | VDF |
| HYDROCLEAN | Registered | France | 7 | 1999-02-12 | 99/774949 | 1999-07-23 | 99/774949 | VDPFR | VDF |
| HYDROCLEAN | Registered | United States of America | 7 | 1999-08-03 | 75/766371 | 2001-02-20 | 3429421 | VDPFR | VDF |
| X-FORCE | Acknowledged | Algeria | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Azerbaijan | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | China | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Registered | European Union IPO | 6,7,9,42 | 2017-05-26 | 016768236 | 2017-10-23 | 016768236 | VOGF | VOGF |
| X-FORCE | Registered | France | 6,7,9,42 | 2017-05-24 | 4363990 | 2017-09-15 | 4363990 | VOGF | VOGF |
| X-FORCE | Acknowledged | International | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Japan | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Kazakhstan | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Mexico | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Norway | 6,7,9,42 | | | | | VOGF | VOGF |
| X-FORCE | Acknowledged | Russian Federation | 6,7,9,42 | | | | | VOGF | VOGF |

Appendix A - Trademarks

| | | | | | | | | | |
|---------|--------------|--------------------------|----------|------------|--------|--|--|------|------|
| X-FORCE | Application | United Arab Emirates | 42 | 2017-11-15 | 282958 | | | VOGF | VOGF |
| X-FORCE | Application | United Arab Emirates | 6 | 2017-11-15 | 282955 | | | VOGF | VOGF |
| X-FORCE | Application | United Arab Emirates | 7 | 2017-11-15 | 282956 | | | VOGF | VOGF |
| X-FORCE | Application | United Arab Emirates | 9 | 2017-11-15 | 282957 | | | VOGF | VOGF |
| X-FORCE | Acknowledged | United States of America | 6,7,8,42 | | | | | VOGF | VOGF |

**to the best of our knowledge*

APPENDIX B1 - PATENTS

[See attached.]

Appendix B1 - Patents

| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---------------------------------|-------------------------------|-----------|--------------------|------------|--------------------|------------------|--------------|------------|-------|--------------------------|
| BR7433-AE-PCT | Composant radieur radiateur/axe | United Arab Emirates | Allowed | 356/2011 | 2009-10-05 | | | | | VOGF | VMOGF |
| BR7433-AR-BN | Composant radieur radiateur/axe | Argentina | Granted | P0990103843 | 2009-10-05 | 073776 | 2010-12-01 | 73776 | 2015-05-21 | VOGF | VOGF |
| BR7433-AT-ECT | Composant radieur radiateur/axe | Austria | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-BR-PCT | Composant radieur radiateur/axe | Brazil | Published | P109202245-5 | 2009-10-05 | P109202245 | 2015-12-28 | | | VOGF | VOGF |
| BR7433-CA-PCT | Composant radieur radiateur/axe | Canada | Granted | 2738094 | 2009-10-05 | 2738094 | 2010-04-22 | 2738094 | 2016-10-04 | VOGF | VOGF |
| BR7433-CN-PCT | Composant radieur radiateur/axe | China | Granted | 2009/8013906 4.7 | 2009-10-05 | 102171502 | 2011-08-31 | 102171502 | 2013-08-07 | VOGF | VOGF |
| BR7433-CZ-ECT | Composant radieur radiateur/axe | Czech Republic | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-DE-ECT | Composant radieur radiateur/axe | Germany (Federal Republic of) | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-EP-ECT | Composant radieur radiateur/axe | European Patent | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-FR-BN | Composant radieur radiateur/axe | France | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-FR-ECT | Composant radieur radiateur/axe | France | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-GB-ECT | Composant radieur radiateur/axe | United Kingdom | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VMOGF |
| BR7433-ID-PCT | Composant radieur radiateur/axe | Indonesia | Granted | WO/2011/01331 | 2009-10-05 | WO/2011/01331 | 2011-07-21 | P030094573 2 | 2017-05-09 | VOGF | VMOGF |
| BR7433-IN-PCT | Composant radieur radiateur/axe | India | Published | 2517/DHENV/2011 | 2009-10-05 | 2517/DHENV/2011 | 2012-08-17 | | | VOGF | VMOGF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|--------------------------|-------------|--------------------|------------|--------------------|------------------|---------------------|------------|-------|--------------------------|
| BR7433-JT-ECT | Component radiateur radiateur/ radiateur/ axe/axe | Italy | Granted | 08783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 502613802 196974 | 2013-07-31 | VOGF | VOGF |
| BR7433-JP-PCT | Component radiateur radiateur/ radiateur/ axe/axe | Japan | Granted | 2011-531438 | 2009-10-05 | 2012-505981 | 2012-03-08 | 5613675 | 2014-09-12 | VOGF | VOGF |
| BR7433-MX-PCT | Component radiateur radiateur/ radiateur/ axe/axe | Mexico | Granted | 2011/003431 | 2009-10-05 | 2011/003431 | 2011-04-21 | 315775 | 2013-11-27 | VOGF | VOGF |
| BR7433-PL-ECT | Component radiateur radiateur/ radiateur/ axe/axe | Poland | Granted | 08783715.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-RO-ECT | Component radiateur radiateur/ radiateur/ axe/axe | Romania | Granted | 08783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-RU-PCT | Component radiateur radiateur/ radiateur/ axe/axe | Russian Federation | Granted | 2011/119480 | 2009-10-05 | | | 2473001 | 2013-01-20 | VOGF | VMOGF |
| BR7433-US-PCT | Component radiateur radiateur/ radiateur/ axe/axe | United States of America | Granted | 12/121963 | 2009-10-05 | 2011/017448 2 | 2011-07-21 | 9,470,344 | 2016-10-18 | VOGF | VOGF |
| BR7441-CN-MU | Protective over-coating in slip area | China | Granted | 20122075731 9.5 | 2012-11-15 | | | 203452861 | 2014-02-25 | VDPER | VDF |
| BR7441-FR-SN | Internal shoulder coating in slip area | France | Granted | 1103484 | 2011-11-15 | 2982833 | 2013-05-17 | 2982833 | 2013-11-15 | VDPER | VDF |
| BR7442-AE-PCT | Internal shoulder shape | United Arab Emirates | Application | 643/2014 | 2012-12-14 | | | | | VOGF | VOGF |
| BR7442-AR-SN | Internal shoulder shape | Argentina | Published | P-120104796 | 2012-12-18 | 088903 | 2014-06-13 | | | VOGF | VMOGF |
| BR7442-BR-PCT | Internal shoulder shape | Brazil | Published | 11201401401 A-6 | 2012-12-14 | 11201401401 4 | 2014-08-19 | | | VOGF | VOGF |
| BR7442-CA-PCT | Internal shoulder shape | Canada | Published | 2855931 | 2012-12-14 | 2855931 | 2013-06-27 | | | VOGF | VOGF |
| BR7442-CN-PCT | Internal shoulder shape | China | Granted | 20128008277 0.8 | 2012-12-14 | 104204398 | 2014-12-10 | 104204398 | 2016-11-19 | VOGF | VOGF |
| BR7442-EP-ECT | Internal shoulder shape | European Patent | Published | 12821284.4 | 2012-12-14 | 2795035 | 2014-10-29 | | | VOGF | VOGF |
| BR7442-FR-BN | Internal shoulder shape | France | Granted | 11103530 | 2011-12-19 | 2994395 | 2013-06-21 | 2994395 | 2013-12-27 | VOGF | VOGF |
| BR7442-ID-PCT | Internal shoulder shape | Indonesia | Application | PH020140353 9 | 2012-12-14 | | | | | VOGF | VOGF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|----------------------------|-------------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR7442-IN-PCT | Internal shoulder shape | India | Published | 4092/DEL/NP/2014 | 2012-12-14 | 4092/DEL/NP/2014 | 2015-02-20 | | | VOGF | VOGF |
| BR7442-JF-PCT | Internal shoulder shape | Japan | Granted | 2014-546597 | 2012-12-14 | 2015-507723 | 2015-03-12 | 6113262 | 2017-10-17 | VOGF | VOGF |
| BR7442-MX-PCT | Internal shoulder shape | Mexico | Granted | 2014/007399 | 2012-12-14 | 2014/007393 | 2014-08-22 | 546969 | 2017-04-07 | VOGF | VOGF |
| BR7442-RU-PCT | Internal shoulder shape | Russian Federation | Granted | 2014124011 | 2012-12-14 | 2014124011 | 2015-12-27 | 2613212 | 2017-03-18 | VOGF | VOGF |
| BR7442-US-PCT | Internal shoulder shape | United States of America | Published | 14956699 | 2012-12-14 | 2014/027242 | 2014-11-06 | | | VOGF | VOGF |
| BR7445-AE-PCT | Low torque double shoulder | United Arab Emirates | Application | 699/2014 | 2012-12-20 | | | | | VOGF | VOGF |
| BR7445-AR-3N | Low torque double shoulder | Argentina | Published | P-120105078 | 2012-12-28 | 089911 | 2014-09-03 | | | VOGF | VMOGF |
| BR7445-AT-ECT | Low torque double shoulder | Austria | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-BR-PCT | Low torque double shoulder | Brazil | Published | 11201401594-5-9 | 2012-12-20 | 11201401594-5 | 2014-08-19 | | | VOGF | VOGF |
| BR7445-CA-PCT | Low torque double shoulder | Canada | Published | 2857272 | 2012-12-20 | 2857272 | 2013-07-04 | | | VOGF | VOGF |
| BR7445-CN-PCT | Low torque double shoulder | China | Granted | 20128006661-7.2 | 2012-12-20 | 104053852 | 2014-09-17 | 104053852 | 2016-11-23 | VOGF | VMOGF |
| BR7445-CZ-ECT | Low torque double shoulder | Czech Republic | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-DE-ECT | Low torque double shoulder | Germany (Federal Republic of) | Granted | 60201201328-5.8 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-EP-ECT | Low torque double shoulder | European Patent | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-FR-3N | Low torque double shoulder | France | Granted | 11304147 | 2011-12-29 | 2985282 | 2013-07-05 | 2985282 | 2016-07-29 | VOGF | VOGF |
| BR7445-FR-ECT | Low torque double shoulder | France | Granted | 12521278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-GB-ECT | Low torque double shoulder | United Kingdom | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-ID-PCT | Low torque double shoulder | Indonesia | Application | P0020140366-2 | 2012-12-20 | | | | | VOGF | VOGF |
| BR7445-IN-PCT | Low torque double shoulder | India | Published | 4520/DEL/NP/2014 | 2012-12-20 | 4520/DEL/NP/2014 | 2015-02-06 | | | VOGF | VOGF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|----------------|----------------------------|-------------------------------|-----------|--------------------|------------|--------------------|------------------|---------------------|------------|-------|--------------------------|
| BR7445-IT-ECT | Low torque double shoulder | Italy | Granted | 12821278.4 | 2012-12-28 | 2798141 | 2014-11-05 | 502016000 015299 | 2015-12-16 | VOGF | VOGF |
| BR7445-JP- PCT | Low torque double shoulder | Japan | Granted | 2014-548512 | 2012-12-20 | 2015-507729 | 2015-03-12 | 6082405 | 2017-01-27 | VOGF | VOGF |
| BR7445-MX- PCT | Low torque double shoulder | Mexico | Granted | 2014/008038 | 2012-12-20 | 3014/038038 | 2014-08-21 | 348845 | 2017-05-25 | VOGF | VOGF |
| BR7445-PL- ECT | Low torque double shoulder | Poland | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-RO- ECT | Low torque double shoulder | Romania | Granted | 12821278.4 | 2012-12-20 | 2798141 | 2014-11-05 | 2798141 | 2015-12-16 | VOGF | VOGF |
| BR7445-RU- PCT | Low torque double shoulder | Russian Federation | Granted | 2014125711 | 2012-12-20 | 2014125711 | 2015-12-27 | 2606008 | 2017-01-19 | VOGF | VOGF |
| BR7445-US- PCT | Low torque double shoulder | United States of America | Granted | 142564518 | 2012-12-20 | 2014267119 | 2014-12-18 | 5,500,043 | 2015-11-22 | VOGF | VOGF |
| BR7446-CN- PCT | Hydroclean Max | China | Published | 20138003304 0.5 | 2013-08-12 | 103791208 | 2014-05-14 | | | VOEFR | VOEFR |
| BR7446-FR-BN | Hydroclean Max | France | Granted | 1285967 | 2012-08-22 | 2992345 | 2013-12-27 | 2992046 | 2014-07-25 | VOEFR | VOF |
| BR7446-QCC- BN | Hydroclean Max | Gulf Cooperation Council | Allowed | 201324710 | 2013-06-18 | | | | | VOEFR | VOF |
| BR7446-RU- PCT | Hydroclean Max | Russian Federation | Granted | 2014151400 | 2013-06-12 | 2014151400 | 2016-07-10 | 2631059 | 2017-09-18 | VOEFR | VOF |
| BR7446-US- PCT | Hydroclean Max | United States of America | Published | 14234542 | 2013-06-12 | 20150361729 | 2015-12-17 | | | VOEFR | VOEFR |
| BR0404-R-BN | VAM TAURUS | Argentina | Granted | P980102797 | 1999-05-11 | 98.0102797 | 2000-12-11 | 0198567 | 2005-01-23 | VAD | VMD |
| BR040-BR- PCT | VAM TAURUS | Brazil | Granted | P19811225-6 | 1998-05-21 | P19811225 | 2001-02-20 | P19911225 | 2007-10-09 | VAD | VMD |
| BR0404-CA- PCT | VAM TAURUS | Canada | Granted | 2,334,926 | 1998-05-21 | 2324926 | 1999-12-23 | 2334926 | 2005-07-09 | VAD | VMD |
| BR0404-CN- PCT | VAM TAURUS | China | Granted | 99807414.4 | 1999-05-21 | 1395561 | 2001-07-25 | 1115466 | 2003-07-23 | VAD | VMD |
| BR040-DE- ECT | VAM TAURUS | Germany (Federal Republic of) | Granted | 59913178.0 | 1999-05-21 | 1088150 | 1999-12-23 | 59913178 | 2005-03-01 | VAD | VMD |
| BR040-DK- ECT | VAM TAURUS | Denmark | Granted | 9886536.9 | 1999-05-21 | 1088150 | 1999-12-23 | 1088150 | 2005-03-01 | VAD | VMD |
| BR040-EA- EAT | VAM TAURUS | Eurasian Patent Convention | Granted | 2001/00048 | 1999-05-21 | | | 002252 | 2002-02-28 | VAD | VMD |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No | Grant Date | Owner | Registered name of owner |
|---------------|-----------------------|-------------------------------|---------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9304-EP-ECT | VAM TAURUS | European Patent | Granted | 98200336 B | 1998-05-21 | 1998153 | 1998-12-23 | 1088193 | 2000-03-09 | VAD | VADCSG |
| BR9304-FR-ECT | VAM TAURUS | France | Granted | 98232222 B | 1998-05-21 | 1088150 | 1998-12-23 | 1088150 | 2000-03-09 | VAD | VAD |
| BR9304-GB-ECT | VAM TAURUS | United Kingdom | Granted | 98032322 B | 1998-05-21 | 1088150 | 1998-12-23 | 1088150 | 2000-03-09 | VAD | VAD |
| BR9304-ID-PCT | VAM TAURUS | Indonesia | Granted | 98200322 B | 1998-05-21 | 26712 | 2001-02-01 | 0000355 | 2002-11-21 | VAD | VADCSG |
| BR9304-IT-ECT | VAM TAURUS | Italy | Granted | 99030332 B | 1999-05-21 | 1088150 | 1999-12-23 | 405482 | 2000-05-01 | VAD | VADCSG |
| BR9304-JP-PCT | VAM TAURUS | Japan | Granted | 2000-554882 | 1999-05-21 | 2002-518517 | 2002-08-25 | 3780888 | 2005-01-13 | VAD | VAD |
| BR9304-MX-PCT | VAM TAURUS | Mexico | Granted | P442000091 2080 | 1998-05-21 | | | 221021 | 2004-06-18 | VAD | VAD |
| BR9304-NO-PCT | VAM TAURUS | Norway | Granted | 20000324 | 1998-05-21 | 20000324 | 2000-12-12 | 324382 | 2002-02-01 | VAD | VAD |
| BR9304-RU-EAT | VAM TAURUS | Russian Federation | Granted | 2001020048 | 1999-05-21 | | | 002282 | 2002-10-01 | VAD | VAD |
| BR9304-SA-BN | VAM TAURUS | Saudi Arabia | Granted | 98200321 | 1998-05-21 | | | 644 | 2000-03-28 | VAD | VADCSG |
| BR9304-US-PCT | VAM TAURUS | United States of America | Granted | 08719980 | 1998-05-21 | 0513840 | 2003-02-04 | 61913840 | 2003-05-24 | VAD | VAD |
| BR9304-AR-BN | WORKOVER RISER HP | Argentina | Granted | PR00182348 | 2000-10-11 | | | 028819 | 2004-08-28 | VAD | VAD |
| BR9304-AT-ECT | WORKOVER RISER HP | Austria | Granted | 01884430 B | 2000-10-10 | 1232322 | 2001-05-17 | 0249807 | 2003-08-25 | VAD | VAD |
| BR9304-BB-PCT | WORKOVER RISER HP | Brazil | Granted | PI00164447 | 2000-10-10 | PI0016444 | 2002-07-08 | PI00164447 | 2003-08-03 | VAD | VAD |
| BR9304-CA-PCT | WORKOVER RISER HP | Canada | Granted | 2388218 | 2000-10-10 | 2388218 | 2003-01-01 | 2388218 | 2003-01-31 | VAD | VAD |
| BR9304-DE-ECT | WORKOVER RISER HP | Germany (Federal Republic of) | Granted | 52003878 B | 2000-10-10 | 1232322 | 2001-05-17 | 1232322 | 2003-08-25 | VAD | VAD |
| BR9304-EP-ECT | WORKOVER RISER HP | European Patent | Granted | 00384432 B | 2000-10-10 | 1232322 | 2001-05-17 | 1232322 | 2003-08-25 | VAD | VADCSG |
| BR9304-FR-ECT | WORKOVER RISER HP | France | Granted | 00384432 B | 2000-10-10 | 1232322 | 2001-05-17 | 1232322 | 2003-08-25 | VAD | VAD |
| BR9304-GB-ECT | WORKOVER RISER HP | United Kingdom | Granted | 00384432 B | 2000-10-10 | 1232322 | 2001-05-17 | 1232322 | 2003-08-25 | VAD | VAD |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|----------------|--|--------------------------|-------------|--------------------|------------|--------------------|------------------|---------------------|------------|-------|--------------------------|
| BR8041-0-PCT | WORKOVER RISER HP | Indonesia | Granted | WO85-2002-01699 | 2008-10-10 | | | 0014963 | 2004-12-27 | VAD | VMCOG |
| BR8041-FT-ECT | WORKOVER RISER HP | Italy | Granted | 00964830.0 | 2008-10-10 | 1232322 | 2001-05-17 | 502003901 144080 | 2003-06-25 | VAD | VMD |
| BR8041-JP-PCT | WORKOVER RISER HP | Japan | Granted | 2001-536845 | 2008-10-10 | 2003-514291 | 2003-04-15 | 5088316 | 2012-08-17 | VAD | VMD |
| BR8041-MX-PCT | WORKOVER RISER HP | Mexico | Granted | PA/A/2002/002848 | 2008-10-10 | 2002002848 | 2004-12-13 | 234670 | 2006-03-08 | VAD | VMD |
| BR8041-NG-BN | WORKOVER RISER HP | Nigeria | Granted | 402/2000/22 | 2008-10-11 | RP14362 | 2002-05-03 | RP14362 | 2002-05-03 | VAD | VMD |
| BR8041-NO-PCT | WORKOVER RISER HP | Norway | Granted | 20021862 | 2008-10-10 | | | 328307 | 2008-11-03 | VAD | VMD |
| BR8041-US-PCT | WORKOVER RISER HP | United States of America | Granted | 09/902545 | 2008-10-10 | 2002/017788 | 2002-02-14 | 6511102 | 2003-01-28 | VAD | VMD |
| BR8227-AE-PCT | DRILL STEM CONNECTION - Vam Express VX patent coverage | United Arab Emirates | Application | P786/2007 | 2005-03-02 | | | | | VOGF | VMOGF |
| BR8227-AZ-EAT | DRILL STEM CONNECTION - Vam Express VX patent coverage | Azerbaijan | Granted | 2007/01985 | 2005-03-02 | | | 010138 | 2008-06-30 | VOGF | VMOGF |
| BR8227-BR-PCT | DRILL STEM CONNECTION - Vam Express VX patent coverage | Brazil | Granted | PI0520038.3 | 2005-03-02 | PI0520038 | 2009-04-14 | PI0520038 | 2016-05-17 | VOGF | VMOGF |
| BR8227-CA-DIV | DRILL STEM CONNECTION - Vam Express VX patent coverage | Canada | Granted | 2725126 | 2005-03-02 | | | | 2012-12-11 | VOGF | VOGF |
| BR8227-CA-DIV2 | DRILL STEM CONNECTION - Vam Express VX patent coverage | Canada | Granted | 2739756 | 2005-03-02 | 2739755 | 2008-09-08 | 2739755 | 2014-11-04 | VOGF | VOGF |
| BR8227-CA-PCT | DRILL STEM CONNECTION - Vam Express VX patent coverage | Canada | Granted | 2602473 | 2005-03-02 | 2602473 | 2008-09-08 | 2602473 | 2012-05-15 | VOGF | VOGF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|----------------|--|----------------------------|-----------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9227-CN-DIV | DRILL STEM CONNECTION - Van Express VX patent coverage | China | Granted | 20111027417 6.2 | 2005-03-02 | 102423581 | 2012-04-25 | 102423581 | 2015-11-25 | VOGF | VMOGSF |
| BR9227-CN-DIV2 | DRILL STEM CONNECTION - Van Express VX patent coverage | China | Published | 20141003480 8.9 | 2005-03-02 | 104273956 | 2015-02-25 | | | VOGF | VMOGSF |
| BR9227-CN-PCT | DRILL STEM CONNECTION - Van Express VX patent coverage | China | Published | 20059004886 1.5 | 2005-03-02 | 101184903 | 2008-05-21 | | | VOGF | VMOGSF |
| BR9227-DE-PCT | DRILL STEM CONNECTION - Van Express VX patent coverage | Algeria | Granted | 0718618 | 2005-03-02 | | | 5897 | 2010-08-29 | VOGF | VMOGSF |
| BR9227-EA-EAT | DRILL STEM CONNECTION - Van Express VX patent coverage | Eurasian Patent Convention | Granted | 200701686 | 2005-03-02 | | | 010198 | 2008-08-30 | VOGF | VMOGSF |
| BR9227-EQ-PCT | DRILL STEM CONNECTION - Van Express VX patent coverage | Egypt | Allowed | 8202007 | 2005-03-02 | | | | | VOGF | VMOGSF |
| BR9227-EP-ECT | DRILL STEM CONNECTION - Van Express VX patent coverage | European Patent | Published | 067088890.2 | 2005-03-02 | 1891578 | 2007-12-05 | | | VOGF | VOGF |
| BR9227-ID-PCT | DRILL STEM CONNECTION - Van Express VX patent coverage | Indonesia | Granted | W002200702 8.13 | 2006-03-02 | W002200702 8.13 | 2010-02-11 | P0627898 | 2011-03-09 | VOGF | VMOGSF |
| BR9227-IN-PCT | DRILL STEM CONNECTION - Van Express VX patent coverage | India | Granted | 9428KOLMB 2007 | 2005-03-02 | | | 283251 | 2017-05-09 | VOGF | VOGF |
| BR9227-JP-DIV | DRILL STEM CONNECTION - Van Express VX patent coverage | Japan | Granted | 2010-284182 | 2005-03-02 | 2011-054404 | 2011-05-12 | 5403626 | 2013-11-08 | VOGF | VMOGSF |
| BR9227-JP-PCT | DRILL STEM CONNECTION - | Japan | Granted | 2007-557601 | 2005-03-02 | | | 4840164 | 2012-03-02 | VOGF | VMOGSF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|--------------------------|-----------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| | Vann Express VX patent coverage | | | | | | | | | | |
| BR9227-KZ-EAT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Kazakhstan | Granted | 2007/01865 | 2005-03-02 | | | 010138 | 2008-06-30 | VOGF | VMOGF |
| BR9227-MX-DN | DRILL STEM CONNECTION - Vann Express VX patent coverage | Mexico | Granted | MX/a/2010/08 0247 | 2005-03-02 | | | 268817 | 2012-05-07 | VOGF | VOGF |
| BR9227-MX-PCT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Mexico | Granted | MX/a/2007/01 0630 | 2005-03-02 | 2006/082649 | 2006-04-30 | 277961 | 2010-08-09 | VOGF | VOGF |
| BR9227-NO-PCT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Norway | Published | 3E-07 | 2005-03-02 | 2007/4967 | 2007-10-02 | | | VOGF | VOGF |
| BR9227-RU-EAT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Russian Federation | Granted | 2007/01865 | 2005-03-02 | | | 010138 | 2008-06-30 | VOGF | VMOGF |
| BR9227-SG-PCT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Singapore | Granted | 2007/063878 | 2005-03-02 | | | 136211 | 2010-08-30 | VOGF | VMOGF |
| BR9227-TM-EAT | DRILL STEM CONNECTION - Vann Express VX patent coverage | Turkmenistan | Granted | 2007/01865 | 2005-03-02 | | | 010138 | 2008-06-30 | VOGF | VMOGF |
| BR9227-US-BN | DRILL STEM CONNECTION - Vann Express VX patent coverage | United States of America | Granted | 10/790800 | 2004-03-01 | 2005/189147 | 2005-09-01 | 7,210,710 | 2007-05-01 | VOGF | VOGF |
| BR9241-EP-OEB | Elément d'un train de luges de forage rotatif | European Patent | Granted | 98405338.9 | 1998-03-05 | 0666208 | 1998-09-23 | 666209 | 2002-06-04 | VDPER | SMFI |
| BR9241-FR-OEB | Elément d'un train de luges de forage rotatif | France | Granted | 98405338.9 | 1998-03-05 | 0666209 | 1998-09-23 | 0856309 | 2003-06-04 | VDPER | VOF |
| BR9241-GB-OEB | Elément d'un train de luges de forage rotatif | United Kingdom | Granted | 98405338.9 | 1998-03-06 | 0866209 | 1998-09-23 | 0866209 | 2003-06-04 | VDPER | SMFI |

Appendix B1 - Patents

| Patent Ref | Invention Short Title | Country | Status | Application Number | Filing Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|--------------------------|---------|--------------------|-------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9341-NO-BN | Équipement d'un bras de presse de forage rotatif | Norway | Granted | 9803140 | 1998-03-19 | | | 319226 | 2005-07-04 | VDPER | VDP |
| BR9341-US-BN | Élément d'un bras de riges de forage rotatif | United States of America | Granted | 08403338 | 1998-03-16 | | | 6,558,073 | 2003-05-02 | VDPER | VDP |
| BR9342-EP-OEB | Équipement de forage rotatif et lige de forage comportant au moins un tronçon profilé | European Patent | Granted | 08400197.5 | 2002-01-25 | 1026364 | 2003-09-08 | 1026364 | 2005-06-08 | VDPER | SARFI |
| BR9342-FR-BN | Élément profilé pour un équipement de forage rotatif et lige de forage comportant au moins un tronçon profilé | France | Granted | 9901391 | 1999-02-05 | 2784428 | 2000-08-11 | 2784428 | 2001-05-04 | VDPER | VDP |
| BR9342-FR-OEB | Élément profilé pour un équipement de forage rotatif et lige de forage comportant au moins un tronçon profilé | France | Granted | 08400190.5 | 2002-01-25 | 1026364 | 2003-08-08 | 1026364 | 2005-06-08 | VDPER | VDP |
| BR9342-GB-OEB | Équipement de forage rotatif et lige de forage comportant au moins un tronçon profilé | United Kingdom | Granted | 08400190.5 | 2002-01-25 | 1026364 | 2003-08-08 | 1026364 | 2005-06-08 | VDPER | SARFI |
| BR9342-NO-BN | Équipement de forage rotatif et lige de forage comportant au moins un tronçon profilé | Norway | Granted | 20000556 | 2000-02-03 | 20000555 | 2000-08-07 | 372967 | 2005-12-16 | VDPER | VDP |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|--------------------------|---------|--------------------|------------|--------------------|------------------|------------|------------|-------------|--------------------------|
| | projet un pompier profile | | | | | | | | | | |
| BR9242-ND-DIV | Element profile pour un équipement de forage rotatif et type de forage comportant au moins un tronçon profilé | Norway | Granted | 2006/04023 | 2006-02-03 | 2006/04023 | | 328794 | 2010-06-18 | VDPER | VDP |
| BR9242-US-8N | Element profile pour un équipement de forage rotatif et type de forage comportant au moins un tronçon profilé | United States of America | Granted | 09/487187 | 2000-02-03 | | | 6348779 | 2002-02-28 | VDPER | VPF |
| BR9243-US-8N | Element profile pour un équipement de forage rotatif et applications à des composants d'un train de types de forage | United States of America | Granted | 10/160042 | 2002-06-28 | 2003/271872 | 2003-12-04 | 6,792,821 | 2004-05-11 | VDPER | VPF |
| BR9246-FR-8N | Element of un train de types de forage comportant au moins une zone d'appui, type de forage et joint d'outil | France | Granted | 03/02096 | 2003-02-20 | 20031608 | 2004-08-27 | 2851808 | 2006-01-27 | VDPER | VPF |
| BR9246-US-8N | Element of un train de types de forage comportant au moins une zone d'appui, type de forage et joint d'outil | United States of America | Granted | 10/77788 | 2004-02-13 | 2004/15008 | 2004-10-07 | 7182180 | 2007-02-27 | VDPER | VPF |
| BR9246-AE-PCI | Typ de forage instrumente | United Arab Emirates | Allowed | 61/2013 | 2010-07-20 | | | | | VDPER-ADMIN | VPF-ADMIN |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|--|--------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|--------------|--------------------------|
| BR9326-BR-PCT | Type de forage instrumentee | Brazil | Published | PI1015019-1 | 2010-07-20 | PI1015019 | 2010-04-26 | | | VDFPR-ARMINE | VDF-ARMINE |
| BR9326-CN-PCT | Type de forage instrumentee | China | Granted | 20108003256 6.2 | 2010-07-20 | 102482921 | 2012-05-30 | 102482921 | 2015-06-24 | VDFPR-ARMINE | VDF-ARMINE |
| BR9326-FR-BN | Type de forage instrumentee | France | Granted | 09/035560 | 2009-07-20 | 2948145 | 2011-01-21 | 2948145 | 2011-08-26 | VDFPR-ARMINE | VDF-ARMINE |
| BR9326-NO-PCT | Type de forage instrumentee | Norway | Published | 2E1-07 | 2010-07-20 | 20120155 | 2012-04-19 | | | VDFPR-ARMINE | VDF-ARMINE |
| BR9326-US-PCT | Type de forage instrumentee | United States of America | Granted | 13/034708 | 2010-07-20 | 2012199400 | 2012-08-09 | 8,915,315 | 2014-12-23 | VDFPR-ARMINE | VDF-ARMINE |
| BR9402-FR-BN | Coupler with damper support | France | Granted | 11/02349 | 2011-07-27 | 2978487 | 2013-02-01 | 2978487 | 2015-07-03 | VDFPR | VDF |
| BR9403-BR-PCT | Low torque sub with backreaming function | Brazil | Published | 11201400793 2-3 | 2012-10-01 | 11201400793 2 | 2017-04-18 | | | VDFPR | VDFPR |
| BR9403-CN-PCT | Low torque sub with backreaming function | China | Granted | 20128004899 9.6 | 2012-10-01 | 103874822 | 2014-05-18 | 103874822 | 2016-02-03 | VDFPR | VDF |
| BR9403-FR-BN | Low torque sub with backreaming function | France | Granted | 11/03009 | 2011-10-04 | 2980815 | 2013-04-05 | 2980815 | 2013-09-27 | VDFPR | VDF |
| BR9403-GCC-BN | Low torque sub with backreaming function | Gulf Cooperation Council | Approved | 2013/22424 | 2012-10-02 | | | | | VDFPR | VDF |
| BR9403-US-PCT | Low torque sub with backreaming function | United States of America | Published | 14/346220 | 2012-10-01 | 20144724546 | 2014-08-14 | | | VDFPR | VDFPR |
| BR9418-BR-PCT | Improved landing pipe | Brazil | Published | 11201301235 8-9 | 2013-11-27 | 11201301235 8 | 2017-07-11 | | | VDFPR | VDFPR |
| BR9418-CN-PCT | Improved landing pipe | China | Published | 20133005973 8.9 | 2013-11-27 | 104919128 | 2015-08-16 | | | VDFPR | VDFPR |
| BR9418-EP-OEB | Improved landing pipe | European Patent | Published | 13151249.3 | 2013-01-15 | 2734851 | 2014-07-16 | | | VDFPR | VDFPR |
| BR9418-IN-PCT | Improved landing pipe | India | Published | 3607CHE/NF/2015 | 2013-11-27 | 3607CHE/NF/2015 | 2016-07-01 | | | VDFPR | VDFPR |
| BR9418-US-BN | Improved landing pipe | United States of America | Published | 13/688238 | 2012-11-29 | 2014014543 2 | 2014-05-29 | | | VDFPR | VDFPR |
| BR942+AR-BN | Shank drill pipe 4 14 | Argentina | Application | PI140100244 | 2014-01-27 | | | | | VDFPR | VDFPR |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|-------------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|--------|--------------------------|
| BR3444-A1-ECT | Shake and pipe 4 | Austria | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-A1-PCT | Shake and pipe 4 | Australia | Granted | 2014/308889 | 2014-01-27 | 2014298899 | 2015-07-02 | 2014298899 | 2017-08-08 | VDPRUS | VDPRUS |
| BR3444-CA-PCT | Shake and pipe 4 | Canada | Granted | 2,888,284 | 2014-01-27 | 2,888,284 | 2014-07-31 | 2,888,284 | 2017-05-09 | VDPRUS | VDPRUS |
| BR3444-ON-PCT | Shake and pipe 4 | China | Allowed | 20148000841 | 2014-01-27 | 105247159 | 2016-01-13 | | | VDPRUS | VDPRUS |
| BR3444-DE-ECT | Shake and pipe 4 | Germany (Federal Republic of) | Granted | 80201400928 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-DK-ECT | Shake and pipe 4 | Denmark | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-DZ-PCT | Shake and pipe 4 | Algeria | Application | 150344 | 2014-01-27 | | | | | VDPRUS | VDPRUS |
| BR3444-EP-ECT | Shake and pipe 4 | European Patent | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-FR-ECT | Shake and pipe 4 | France | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-GB-ECT | Shake and pipe 4 | United Kingdom | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-GR-BN | Shake and pipe 4 | Cooperation Council | Application | 2014/20294 | 2014-01-23 | | | | | VDPRUS | VDPRUS |
| BR3444-ID-PCT | Shake and pipe 4 | Indonesia | Published | P1620180384 | 2014-01-27 | 201703279 | 2017-03-31 | | | VDPRUS | VDPRUS |
| BR3444-IT-ECT | Shake and pipe 4 | Italy | Granted | 80201703808 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-NL-ECT | Shake and pipe 4 | Netherlands | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-NZ-ECT | Shake and pipe 4 | Norway | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-TR-ECT | Shake and pipe 4 | Turkey | Granted | 14703417.7 | 2014-01-27 | 2948613 | 2015-12-02 | 2948613 | 2017-04-05 | VDPRUS | VDPRUS |
| BR3444-US-BN | Shake and pipe 4 | United States of America | Granted | 13/751686 | 2013-01-28 | 2014209354 | 2014-07-31 | 8,222,394 | 2015-12-28 | VDPRUS | VDPRUS |
| BR3444-ZA-PCT | Shake and pipe 4 | South Africa | Granted | 2015/04481 | 2014-01-27 | | | 20150448 | 2016-11-30 | VDPRUS | VDPRUS |
| BR3444-GR-PCT | Handing - CAT Cold Metal Bending technology | Brazil | Application | 11301501089 | 2014-12-22 | | | | | VDPRR | VDPRR |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---|--------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR3440-CA-PCT | Handbanding - CMT Cold Metal Banding technology | Canada | Application | 2928808 | 2014-12-22 | | | | | VOGPF | VOGPF |
| BR3440-CN-PCT | Handbanding - CMT Cold Metal Banding technology | China | Published | 20143007580 1.1 | 2014-12-22 | 105629904 | 2016-08-03 | | | VOGPF | VOGPF |
| BR3440-EP-ECT | Handbanding - CMT Cold Metal Banding technology | European Patent | Published | 14831004.8 | 2014-12-22 | 3084112 | 2016-10-26 | | | VOGPF | VOGPF |
| BR3440-FR-BN | Handbanding - CMT Cold Metal Banding technology | France | Granted | 13653310 | 2013-12-20 | 3015546 | 2015-06-26 | 3015546 | 2016-12-29 | VOGPF | VOGPF |
| BR3440-MX-PCT | Handbanding - CMT Cold Metal Banding technology | Mexico | Application | 2016030640 | 2014-12-22 | | | | | VOGPF | VOGPF |
| BR3440-RU-PCT | Handbanding - CMT Cold Metal Banding technology | Russian Federation | Application | 2016129487 | 2014-12-22 | | | | | VOGPF | VOGPF |
| BR3440-US-PCT | Handbanding - CMT Cold Metal Banding technology | United States of America | Published | 15198477 | 2014-12-22 | 2015040885 | 2016-11-24 | | | VOGPF | VOGPF |
| BR3440-AR-BN | VX with metal seal | Argentina | Published | 3425 | 2015-10-14 | | | | | VOGPF | VOGPF |
| BR3440-AU-PCT | VX with metal seal | Australia | Published | 2015332788 | 2015-10-14 | 102282 | 2017-02-15 | | | VOGPF | VOGPF |
| BR3440-BR-PCT | VX with metal seal | Brazil | Application | BR102017085 51 | 2015-10-14 | | | | | VOGPF | VOGPF |
| BR3440-JP-PCT | VX with metal seal | Japan | Published | 11201702719 8.2 | 2015-10-14 | 11261200719 5 | 2017-04-18 | | | VOGPF | VOGPF |
| BR3440-CA-PCT | VX with metal seal | Canada | Published | 2,982,938 | 2015-10-14 | 2,982,938 | 2016-04-27 | | | VOGPF | VOGPF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|-----------------------|----------------------------|-------------|----------------------|------------|-----------------------|------------------|------------|------------|-------|--------------------------|
| BR9438-CN-PCT | VX with metal seal | China | Published | 20136003318 4.3 | 2015-10-14 | 107973525 | 2017-09-18 | | | VOGF | VOGF |
| BR9438-DZ-PCT | VX with metal seal | Algeria | Application | 1701866 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-EA-EAT | VX with metal seal | Eurasian Patent Convention | Published | 201780885 | 2015-10-14 | 201780885 | 2017-07-31 | | | VOGF | VOGF |
| BR9438-EG-PCT | VX with metal seal | Egypt | Application | 20170538 | 2016-10-14 | | | | | VOGF | VOGF |
| BR9438-EP-ECT | VX with metal seal | European Patent | Published | 15718986.B | 2015-10-14 | 3297205 | 2017-08-23 | | | VOGF | VOGF |
| BR9438-FR-GN | VX with metal seal | France | Granted | 14599934 | 2014-10-19 | 3027338 | 2016-04-22 | 3027338 | 2016-12-02 | VOGF | VOGF |
| BR9438-GC-BN | VX with metal seal | Gulf Cooperation Council | Application | 2016/00201 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-ID-PCT | VX with metal seal | Indonesia | Application | PI020170237 3 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-IN-PCT | VX with metal seal | India | Published | 2011708907 7 | 2015-10-14 | 2017108907 7 | 2017-08-11 | | | VOGF | VOGF |
| BR9438-JP-PCT | VX with metal seal | Japan | Granted | 3282015 | 2015-10-08 | | | 4657 | 2019-08-10 | VOGF | VOGF |
| BR9438-MX-PCT | VX with metal seal | Mexico | Published | 3632/2017/00 4917 | 2015-10-14 | 3632/2017/00 54917 | 2017-11-02 | | | VOGF | VOGF |
| BR9438-MY-PCT | VX with metal seal | Malaysia | Application | PI201779085 7 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-NG-PCT | VX with metal seal | Nigeria | Allowed | PP/2017/74 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-OA-PCT | VX with metal seal | O.A.P.I. | Application | | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-TH-PCT | VX with metal seal | Thailand | Application | 1701003028 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-UA-PCT | VX with metal seal | Ukraine | Application | 2017103848 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9438-US-PCT | VX with metal seal | United States of America | Published | 150162709 | 2015-10-14 | 20170229855 8 | 2017-10-19 | | | VOGF | VOGF |
| BR9438-VN-PCT | VX with metal seal | Vietnam | Published | 1-2017-01341 | 2015-10-14 | 62942 | 2017-08-28 | | | VOGF | VOGF |
| BR9438-RJ-BN | pelical shoulder | Argentina | Published | P150104005 | 2016-12-04 | 103586 | 2017-09-21 | | | VOGF | VOGF |

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| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|-----------------------|--------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9466-BR-PCT | Medical shoulder | Brazil | Published | 11331700999 | 2015-12-08 | 11201700999 | 2017-08-01 | | | VOGF | VOGF |
| BR9466-CA-PCT | Medical shoulder | Canada | Published | 2,988,887 | 2015-12-08 | 2,988,887 | 2015-08-18 | | | VOGF | VOGF |
| BR9466-CN-PCT | Medical shoulder | China | Published | 30138028851 | 2015-12-08 | 107602472 | 2017-08-01 | | | VOGF | VOGF |
| BR9466-EP-PCT | Medical shoulder | European Patent | Published | 18802508.7 | 2015-12-08 | 2230551 | 2017-10-18 | | | VOGF | VOGF |
| BR9466-FR-BN | Medical shoulder | France | Granted | 1483103 | 2015-12-08 | 3029293 | 2015-09-10 | 3029293 | 2017-04-26 | VOGF | VOGF |
| BR9466-ID-PCT | Medical shoulder | Indonesia | Application | PI0201703680 | 2015-12-08 | | | | | VOGF | VOGF |
| BR9466-IN-PCT | Medical shoulder | India | Published | 2017101482 | 2015-12-08 | 2017101482 | 2017-09-15 | | | VOGF | VOGF |
| BR9466-JP-PCT | Medical shoulder | Japan | Application | 2017-830738 | 2015-12-08 | | | | | VOGF | VOGF |
| BR9466-MX-PCT | Medical shoulder | Mexico | Application | MP/M/2017/007528 | 2015-12-08 | | | | | VOGF | VOGF |
| BR9466-RL-PCT | Medical shoulder | Russian Federation | Application | 2017118815 | 2015-12-08 | | | | | VOGF | VOGF |
| BR9466-SA-PCT | Medical shoulder | Saudi Arabia | Application | 517381877 | 2015-12-08 | | | | | VOGF | VOGF |
| BR9466-US-PCT | Medical shoulder | United States of America | Application | 15/624,893 | 2016-12-08 | | | | | VOGF | VOGF |
| DEM001-US | Shoulder fix | United States of America | Granted | 3944423 | 2013-01-28 | | | 0728389 | 2015-04-07 | VOFUS | VOUG |

8% reference to field inventors. Suggestions not to make registrations of strength

[See attached]

APPENDIX B2 - POTENTIALLY-ASSIGNED PATENTS

Appendix B2 - Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|---------------|---|-------------|--------------------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9384-EP-ECT | WOP/TBead entry | Allowed | European Patent | 09141028.0 | 2009-09-22 | 2301736 | 2011-05-16 | | | VDPRR | VDPR |
| BR9384-EP-EN | WOP/TBead entry | Granted | France | 08089378 | 2008-09-30 | 2626554 | 2010-04-02 | 2836654 | 2010-10-29 | VDPRR | VDPR |
| BR9384-US-PCT | WOP/TBead entry | Granted | United States of America | 14360395 | 2009-09-30 | 2011155470 | 2011-05-30 | 8,844,654 | 2014-09-30 | VDPRR | VDPRR |
| BR9318-EP-PCT | WOP/ Guide tube cylindrical holder | Published | Brazil | PI1012640-6 | 2010-03-04 | PI1012640 | 2012-11-27 | | | VDPRR | VDPR |
| BR9318-EP-DEB | WOP/ Guide tube cylindrical holder | Granted | European Patent | 09280230.3 | 2009-03-30 | 2236736 | 2010-10-06 | 3230736 | 2012-13-12 | VDPRR | VDPRR |
| BR9318-US-PCT | WOP/ Guide tube cylindrical holder | Granted | United States of America | 13265726 | 2010-03-04 | 2012111655 | 2012-05-10 | 5,206,486 | 2015-12-01 | VDPRR | VDPRR |
| BR9304-EP-PCT | Direct contact coupler with balanced pressure | Application | Brazil | 11201302193-9 | 2012-02-28 | | | | | VDPRR | VDPR |
| BR9304-EP-ECT | Direct contact coupler with balanced pressure | Published | European Patent | 12705587.8 | 2012-02-28 | 2981405 | 2014-01-08 | | | VDPRR | VDPR |
| BR9304-EP-EN | Direct contact coupler with balanced pressure | Granted | France | 1100810 | 2011-09-01 | 2872215 | 2012-05-07 | 2872215 | 2015-03-22 | VDPRR | VDPR |
| BR9304-EP-EN | Direct contact coupler with balanced pressure | Application | EUR Co-processor | 2012020546 | 2012-02-28 | | | | | VDPRR | VDPR |
| BR9304-US-PCT | Direct contact coupler with balanced pressure | Granted | United States of America | 143002228 | 2012-02-28 | 2014-0304393 | 2014-05-06 | 5,441,435 | 2015-09-15 | VDPRR | VDPRR |
| BR9304-EP-PCT | Direct contact coupler with balanced pressure | Application | Brazil | 11201302193-9 | 2012-02-28 | | | | | VDPRR | VDPR |
| BR9304-EP-ECT | Direct contact coupler with balanced pressure | Published | European Patent | 12705587.8 | 2012-02-28 | 2981401 | 2014-01-08 | | | VDPRR | VDPR |
| BR9304-EP-EN | Direct contact coupler with balanced pressure | Granted | France | 11008088 | 2011-03-01 | 2872217 | 2012-05-07 | 2872217 | 2014-02-14 | VDPRR | VDPR |

Appendix B2 - Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|-----------------|--|-------------|--------------------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR03082-COCC-BN | Rivet sleeve with cable storage | Application | Gulf Cooperation Council | 20112020948 | 2012-02-08 | | | | | VOPFR | VOP |
| BR03082-US-PCT | Rivet sleeve with cable storage | Granted | United States of America | 141602289 | 2012-02-28 | 2014-0162289 | 2014-09-17 | 8,447,844 | 2018-08-28 | VOPFR | VOPFR |
| BR03080-BN-PCT | High Frequency antenna coupler | Published | Brazil | 11201300883-8-8 | 2011-09-21 | 11201300883-11 | 2018-08-14 | | | VOPFR | VOP |
| BR03080-CA-PCT | High Frequency antenna coupler | Published | Canada | 2811365 | 2011-09-21 | 2811365 | 2012-03-28 | | | VOPFR | VOP |
| BR03080-EP-ECT | High Frequency antenna coupler | Published | European Patent | 11797899.7 | 2011-09-21 | 2019414 | 2013-07-31 | | | VOPFR | VOP |
| BR03080-FR-BN | High Frequency antenna coupler | Granted | France | 1057724 | 2010-09-24 | 2865418 | 2012-08-30 | 2865418 | 2012-08-07 | VOPFR | VOP |
| BR03080-GOCC-BN | High Frequency antenna coupler | Allowed | Gulf Cooperation Council | 2011119347 | 2011-09-21 | | | | | VOPFR | VOP |
| BR03080-US-PCT | High Frequency antenna coupler | Granted | United States of America | 130821462 | 2011-09-21 | 2013189385 | 2013-07-04 | 9,522,224 | 2016-04-28 | VOPFR | VOPFR |
| BR03080-BN-PCT | Security element for surface interface - antenna selection | Application | Brazil | 11201300389-9-2 | 2012-09-22 | | | | | VOPFR | VOP |
| BR03080-EP-ECT | Security element for surface interface - antenna selection | Published | European Patent | 142729588.8 | 2012-09-22 | 2729970 | 2014-04-30 | | | VOPFR | VOP |
| BR03080-FR-BN | Security element for surface interface - antenna selection | Granted | France | 11018206 | 2011-06-02 | 2875968 | 2012-12-28 | 2875968 | 2013-07-05 | VOPFR | VOP |
| BR03080-COCC-BN | Security element for surface interface - antenna selection | Application | Gulf Cooperation Council | 2012021888 | 2012-06-23 | | | | | VOPFR | VOP |
| BR03080-US-PCT | Security element for surface interface - antenna selection | Published | United States of America | 141727584 | 2012-09-22 | 2014-0164073 | 2014-04-17 | | | VOPFR | VOPFR |
| BR03200-BN-PCT | WDP1 Backbone spring Sleeve | Published | Brazil | P10924988-5 | 2009-09-07 | P10924988 | 2018-02-02 | | | VOPFR | VOP |

Appendix B2 -- Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|---------------|--|-------------|-------------------------------|--------------------|------------|--------------------|------------------|------------------|------------|-------|--------------------------|
| BR9920-DE-ECT | WDP: Backbone spring sleeve | Granted | Germany (Federal Republic of) | 09786028.6 | 2008-08-07 | 2430281 | 2012-03-21 | 2430281 | 2013-09-25 | VDPFR | VDPFR |
| BR9923-DE-ECT | WDP: Backbone spring sleeve | Granted | Eurasian Patent | 09786028.6 | 2008-08-07 | 2430281 | 2012-03-21 | 2430281 | 2013-09-25 | VDPFR | VDP |
| BR9923-DE-ECT | WDP: Backbone spring sleeve | Granted | France | 09786028.6 | 2008-08-07 | 2430281 | 2012-03-21 | 2430281 | 2013-09-25 | VDPFR | VDP |
| BR9921-DE-ECT | WDP: Backbone spring sleeve | Granted | United Kingdom | 09786028.6 | 2008-08-07 | 2430281 | 2012-03-21 | 2430281 | 2013-09-25 | VDPFR | VDP |
| BR9921-NO-ECT | WDP: Backbone spring sleeve | Granted | Norway | 09786028.6 | 2008-08-07 | 2430281 | 2012-03-21 | 2430281 | 2013-09-25 | VDPFR | VDP |
| BR9923-US-ECT | WDP: Backbone spring sleeve | Granted | United States of America | 137318630.6-3 | 2008-08-07 | 30127030862.3 | 2012-04-01 | 9,217,298 | 2013-12-22 | VDPFR | VDPFR |
| BR9948-GR-ECT | Inner sleeve WITHOUT Anchoring and SCREWED cable | Application | United States of America | 11201480848.6-3 | 2012-03-04 | | | | | VDPFR | VDPFR |
| BR9948-GR-ECT | Inner sleeve WITHOUT Anchoring and SCREWED cable | Publisher | European Patent | 12793018.6 | 2012-03-04 | 2766555 | 2014-08-28 | | | VDPFR | VDPFR |
| BR9948-GR-ECT | Inner sleeve WITHOUT Anchoring and SCREWED cable | Granted | France | 1103153 | 2011-09-14 | 2581354 | 2013-04-10 | 2581354 | 2013-11-03 | VDPFR | VDP |
| BR9948-GR-ECT | Inner sleeve WITHOUT Anchoring and SCREWED cable | Granted | China | 2012022807 | 2012-03-10 | | | 4225 | 2015-12-31 | VDPFR | VDP |
| BR9948-US-ECT | Inner sleeve WITHOUT Anchoring and SCREWED cable | Granted | United States of America | 144200284 | 2012-03-04 | 20140284065 | 2014-09-25 | 9,517,798 | 2017-04-11 | VDPFR | VDPFR |
| BR9918-FR-EN | WDP: High flexibility guide sleeve | Granted | France | 0800019 | 2008-01-06 | 2940816 | 2010-07-29 | 2940816 | 2011-02-08 | VDPFR | VDP |
| BR9913-US-ECT | WDP: High flexibility guide sleeve | Granted | United States of America | 13114319 | 2010-07-04 | 2011030475 | 2013-12-01 | 9,291,004 | 2016-03-22 | VDPFR | VDPFR |
| BR9914-CH-NU | Sealing direct connect | Granted | China | ZL201120579961.3 | 2011-11-16 | 2026999395 | 2013-07-23 | ZL201120579961.3 | 2013-01-23 | VDPFR | VDP |

Appendix B2 -- Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|---------------|---|-------------|-------------------------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR0374-FR-BM | Seeking direct connect | Granted | France | 1603448 | 2010-11-18 | 267482 | 2014-05-18 | 267482 | 2012-11-18 | VDPFR | VDP |
| BR0374-US-BM | Seeking direct connect | Granted | United States of America | 13297646 | 2011-11-18 | 2012012283 | 2012-05-17 | 8,888,610 | 2014-03-11 | VDPFR | VDPFR |
| BR0374-DE-ECT | Electromagnetic coupler | Granted | Germany (Federal Republic of) | 80201203073 | 2012-02-02 | 2678515 | 2014-01-01 | 2678515 | 2012-04-05 | VDPFR | VDP |
| BR0374-EP-ECT | Electromagnetic coupler | Granted | European Patent | 12706808.2 | 2012-02-02 | 2678515 | 2014-01-01 | 2678515 | 2012-08-08 | VDPFR | VDP |
| BR0374-FR-BM | Electromagnetic coupler | Published | France | 11600523 | 2011-02-22 | 267882 | 2012-08-24 | | | VDPFR | VDP |
| BR0374-FR-ECT | Electromagnetic coupler | Granted | France | 13706808.3 | 2012-02-22 | 2678515 | 2014-01-01 | 2678515 | 2012-04-08 | VDPFR | VDP |
| BR0374-GB-ECT | Electromagnetic coupler | Granted | United Kingdom | 12706808.2 | 2012-02-22 | 2678515 | 2014-01-01 | 2678515 | 2012-04-05 | VDPFR | VDP |
| BR0374-CFC-BM | Electromagnetic coupler | Application | Gulf Cooperation Council | 2012020589 | 2012-02-22 | | | 267882 | 2012 | VDPFR | VDP |
| BR0374-NO-ECT | Electromagnetic coupler | Granted | Norway | 12706808.2 | 2012-02-22 | 2678515 | 2014-01-01 | 2678515 | 2012-08-05 | VDPFR | VDP |
| BR0374-US-EI | Electromagnetic coupler | Published | United States of America | 14600006 | 2012-02-22 | 2014-0041945 | 2014-02-13 | | | VDPFR | VDPFR |
| BR0380-FR-PCT | Direct contact coupler with electric shield | Published | Brazil | 11201302286 | 2012-02-08 | 112013E+11 | 2016-11-29 | | | VDPFR | VDP |
| BR0380-DE-ECT | Direct contact coupler with electric shield | Granted | Germany (Federal Republic of) | 80201220714 | 2012-02-28 | 2681402 | 2014-01-08 | 2681402 | 2012-05-08 | VDPFR | VDPFR |
| BR0380-EP-ECT | Direct contact coupler with electric shield | Granted | European Patent | 80201220714 | 2012-02-28 | 2681402 | 2014-01-08 | 2681402 | 2012-05-08 | VDPFR | VDPFR |
| BR0380-FR-BM | Direct contact coupler with electric shield | Granted | France | 11600611 | 2011-03-01 | 2682311 | 2012-08-07 | 2682311 | 2012-11-01 | VDPFR | VDP |
| BR0380-FR-ECT | Direct contact coupler with electric shield | Granted | France | 12705946.5 | 2012-02-28 | 2681402 | 2014-01-08 | 2681402 | 2012-05-08 | VDPFR | VDPFR |

Appendix D2 - Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|----------------|---|-------------|--------------------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR93887-DB-ECT | Direct contact coupler with electric shield | Granted | United Kingdom | 12706046.5 | 2012-02-28 | 2681402 | 2014-01-08 | 2681402 | 2015-05-05 | VDPFR | VDPFR |
| BR93888-CCC-SM | Direct contact coupler with electric shield | Application | Gulf Cooperation Council | 2012/202846 | 2012-02-28 | | | | | VDPFR | VDF |
| BR93889-ND-ECT | Direct contact coupler with electric shield | Granted | Norway | 12706046.5 | 2012-02-29 | 2681402 | 2014-01-08 | 2681402 | 2015-05-08 | VDPFR | VDPFR |
| BR93890-US-ECT | Direct contact coupler with electric shield | Granted | United States of America | 144803372 | 2012-02-28 | 2014/0090338 | 2014-03-20 | 9,329,984 | 2016-04-26 | VDPFR | VDPFR |
| BR93897-EB-ECT | Coaxial tubular pipe | Published | Brazil | 11201420791-18 | 2011-10-03 | 112012E-11 | 2016-08-14 | | | VDPFR | VDF |
| BR93897-CA-ECT | Coaxial tubular pipe | Published | Canada | 2813019 | 2011-10-03 | 2813019 | 2012-04-12 | | | VDPFR | VDF |
| BR93897-EP-ECT | Coaxial tubular pipe | Granted | European Patent | 117994181.1 | 2011-10-03 | 2626369 | 2013-08-14 | 2626366 | 2017-11-29 | VDPFR | VDF |
| BR93897-FR-EN | Coaxial tubular pipe | Granted | France | 10388278 | 2010-10-04 | 2695602 | 2012-04-05 | 2985802 | 2013-08-16 | VDPFR | VDF |
| BR93897-GCC-SM | Coaxial tubular pipe | Granted | Gulf Cooperation Council | 2011/19403 | 2011-10-02 | | | 8094241 | 2016-12-31 | VDPFR | VDF |
| BR93897-US-ECT | Coaxial tubular pipe | Granted | United States of America | 131822138 | 2011-10-03 | 2013/088668 | 2013-07-23 | 8,840,787 | 2015-02-10 | VDPFR | VDPFR |
| BR93901-EB-ECT | Coupler with armature | Published | Brazil | 11201440130-7-1 | 2012-07-26 | 112014E-11 | 2017-02-21 | | | VDPFR | VDF |
| BR93901-EP-ECT | Coupler with armature | Published | European Patent | 12744441.3 | 2012-07-26 | 2737197 | 2014-05-04 | | | VDPFR | VDF |
| BR93901-FR-EN | Coupler with armature | Granted | France | 11923348 | 2011-07-27 | 2679619 | 2013-03-01 | 2679619 | 2014-02-26 | VDPFR | VDF |
| BR93901-GCC-SM | Coupler with armature | Application | Gulf Cooperation Council | 2012/21879 | 2012-07-28 | | | | | VDPFR | VDF |
| BR93901-US-ECT | Coupler with armature | Granted | United States of America | 14234785 | 2012-07-25 | 2014-0174715 | 2014-05-26 | 9,723,984 | 2017-08-08 | VDPFR | VDPFR |

Appendix B2 - Potentially Assigned Patents

| Patent Ref | Invention Short Title | Status | Country | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | owner | registered name of owner |
|-------------------|---|-------------|---|--------------------|----------------|--------------------|------------------|------------|----------------|-------|--------------------------|
| BR9404-BR- PCT | Rotational clamping | Application | Brazil | 11201400898 0-7 | 2012- 10-04 | | | | | VDPFR | VDPFR |
| BR9404-DE- ECT | Rotational clamping | Granted | Germany (Federal Republic of) European Patent | 60201291370 2-9 | 2012- 10-04 | 2769048 | 2014-08-27 | 2769048 | 2016- 01-06 | VDPFR | VDPFR |
| BR9404-EP-ECT | Rotational clamping | Granted | France | 127690168 | 2012- 10-04 | 2769048 | 2014-08-27 | 2769048 | 2016- 01-06 | VDPFR | VDPFR |
| BR9404-FR-BN | Rotational clamping | Granted | France | 11027198 | 2011- 10-17 | 2981353 | 2013-04-19 | 2981353 | 2013- 11-01 | VDPFR | VDF |
| BR9404-FR-ECT | Rotational clamping | Granted | France | 127690168 | 2012- 10-04 | 2769048 | 2014-08-27 | 2769048 | 2016- 01-06 | VDPFR | VDPFR |
| BR9404-GB- ECT | Rotational clamping | Granted | United Kingdom | 127690168 | 2012- 10-04 | 2769048 | 2014-08-27 | 2769048 | 2016- 01-06 | VDPFR | VDPFR |
| BR9404-GC- BN | Rotational clamping | Granted | Gulf Cooperation Council | 2012/22546 | 2012- 10-14 | | | 0004243 | 2016- 12-31 | VDPFR | VDF |
| BR9404-NO- ECT | Rotational clamping | Granted | Norway | 127690168 | 2012- 10-04 | 2769048 | 2014-08-27 | 2769048 | 2016- 01-06 | VDPFR | VDPFR |
| BR9404-US- PCT | Rotational clamping | Granted | United States of America | 14/850250 | 2012- 10-04 | 2014/238750 | 2014-08-28 | 9,617,798 | 2017- 04-11 | VDPFR | VDPFR |
| BR9396-FR-BN | Security element for surface interface mechanical | France | France | 11015925 | 2011- 08-22 | 2976965 | 2012-12-28 | 2976965 | 2013- 07-08 | VDPFR | VDF |
| BR9397-FR-BN | Security element for surface interface - electronics | France | France | 11/61824 | 2011- 08-22 | 2976964 | 2012-12-28 | 2976964 | 2013- 07-08 | VDPFR | VDF |
| BR9383-FR-BN | Inner sleeve with lock | France | France | 11/00609 | 2011- 05-01 | 2872218 | 2012-09-07 | 2972218 | 2013- 03-22 | VDPFR | VDF |

APPENDIX C- DOMAIN NAMES

| Mark Name | Registration Date | Owners |
|------------------------|--------------------------|--|
| arctic-drill-pipe.com | 2012-11-07 | VALLOUREC DRILLING PRODUCTS FRANCE |
| protools-service.com | 2011-04-08 | VALLOUREC DRILLING PRODUCTS FRANCE |
| protools-services.com | 2011-04-08 | VALLOUREC DRILLING PRODUCTS FRANCE |
| protools-solution.com | 2011-04-08 | VALLOUREC DRILLING PRODUCTS FRANCE |
| protools-solutions.com | 2011-04-08 | VALLOUREC DRILLING PRODUCTS FRANCE |
| shaledrillpipe.com | 2012-10-08 | VALLOUREC DRILLING PRODUCTS FRANCE |

[See attached]

APPENDIX D - LICENSED-BACK ITEMS

Appendix D - Licensed Back Items

| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|---------------------------------|-------------------------------|-----------|--------------------|------------|--------------------|------------------|-------------|------------|-------|--------------------------|
| BR7433-AE-PCT | Composant radieur radiateur/axe | United Arab Emirates | Allowed | 355/2011 | 2009-10-05 | | | | | VOGF | VMOCGF |
| BR7433-AR-SN | Composant radieur radiateur/axe | Argentina | Granted | PG90103843 | 2008-10-05 | 073776 | 2010-12-01 | 73776 | 2015-05-21 | VOGF | VOGF |
| BR7433-AT-ECT | Composant radieur radiateur/axe | Austria | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-AR-PCT | Composant radieur radiateur/axe | Brazil | Published | PI0920245-6 | 2009-10-05 | PI0920245 | 2015-12-29 | | | VOGF | VOGF |
| BR7433-CA-PCT | Composant radieur radiateur/axe | Canada | Granted | 2738094 | 2009-10-05 | 2738094 | 2010-04-23 | 2738094 | 2016-10-04 | VOGF | VOGF |
| BR7433-CN-PCT | Composant radieur radiateur/axe | China | Granted | 2009/013905 4.7 | 2009-10-05 | 102171502 | 2011-08-31 | 102171502 | 2013-08-07 | VOGF | VOGF |
| BR7433-CZ-ECT | Composant radieur radiateur/axe | Czech Republic | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-DE-ECT | Composant radieur radiateur/axe | Germany (Federal Republic of) | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-EP-ECT | Composant radieur radiateur/axe | European Patent | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-FR-SN | Composant radieur radiateur/axe | France | Granted | 08105663 | 2008-10-15 | 2937077 | 2010-04-16 | 2937077 | 2016-10-22 | VOGF | VOGF |
| BR7433-FR-ECT | Composant radieur radiateur/axe | France | Granted | 09782719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-GB-ECT | Composant radieur radiateur/axe | United Kingdom | Granted | 09783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VMOCGF |
| BR7433-ID-PCT | Composant radieur radiateur/axe | Indonesia | Granted | W00-2011-01331 | 2009-10-05 | W00-2011-01331 | 2011-07-21 | P00004573 2 | 2017-05-09 | VOGF | VMOCGF |
| BR7433-IN-PCT | Composant radieur radiateur/axe | India | Published | 2617/CHEMP/2011 | 2009-10-05 | 2617/CHEMP/2013 | 2013-08-17 | | | VOGF | VMOCGF |

Appendix D - Licensed Back Items

| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|---------------|--|----------------------------|-------------|--------------------|------------|--------------------|------------------|---------------------|------------|-------|--------------------------|
| BR7433-IT-ECT | Composant radieur radiale/radieur axiale | Italy | Granted | 08783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 502013902 199074 | 2013-07-31 | VOGF | VOGF |
| BR7433-JP-PCT | Composant radieur radiale/radieur axiale | Japan | Granted | 2011-531438 | 2009-10-05 | 2012-505981 | 2013-03-08 | 5613875 | 2014-09-12 | VOGF | VOGF |
| BR7433-MX-PCT | Composant radieur radiale/radieur axiale | Mexico | Granted | 2011/033431 | 2009-10-05 | 2011/033431 | 2011-04-23 | 515775 | 2013-11-27 | VOGF | VOGF |
| BR7433-PL-ECT | Composant radieur radiale/radieur axiale | Poland | Granted | 08783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-RO-ECT | Composant radieur radiale/radieur axiale | Romania | Granted | 08783719.9 | 2009-10-05 | 2344802 | 2011-07-20 | 2344802 | 2013-07-31 | VOGF | VOGF |
| BR7433-RU-PCT | Composant radieur radiale/radieur axiale | Russian Federation | Granted | 2011119480 | 2009-10-05 | | | 2473001 | 2013-01-29 | VOGF | VMOGF |
| BR7433-US-PCT | Composant radieur radiale/radieur axiale | United States of America | Granted | 13/21983 | 2009-10-05 | 2011/017448 2 | 2011-07-21 | 9470344 | 2016-10-18 | VOGF | VOGF |
| BR458-AO-PCT | VX with metal seal | Angola | Application | 3435 | 2015-10-14 | | | | | VOGF | VOGF |
| BR458-AR-BN | VX with metal seal | Argentina | Published | P150103337 | 2015-10-15 | 102282 | 2017-02-15 | | | VOGF | VOGF |
| BR458-AU-PCT | VX with metal seal | Australia | Published | 2015332753 | 2015-10-14 | 2015332753 | 2017-03-30 | | | VOGF | VOGF |
| BR458-BN-PCT | VX with metal seal | Burundi | Application | SNV/2017700 51 | 2015-10-14 | | | | | VOGF | VOGF |
| BR458-BR-PCT | VX with metal seal | Brazil | Published | 11201700719 8-7 | 2015-10-14 | 11201700719 6 | 2017-04-18 | | | VOGF | VOGF |
| BR458-CA-PCT | VX with metal seal | Canada | Published | 2,982,539 | 2015-10-14 | 2,982,539 | 2016-04-21 | | | VOGF | VOGF |
| BR458-CN-PCT | VX with metal seal | China | Published | 20158005678 4.3 | 2015-10-14 | 10797825 | 2017-08-18 | | | VOGF | VOGF |
| BR458-DZ-PCT | VX with metal seal | Algeria | Application | 170196 | 2015-10-14 | | | | | VOGF | VOGF |
| BR458-EA-EAT | VX with metal seal | Eurasian Patent Convention | Published | 201790605 | 2015-10-14 | 201790605 | 2017-07-31 | | | VOGF | VOGF |
| BR458-EG-PCT | VX with metal seal | Egypt | Application | 2017635 | 2015-10-14 | | | | | VOGF | VOGF |

Appendix D -- Licensed Back Items

| Patent Ref | Invention Short Title | Country | Status | Application Number | Filed Date | Publication Number | Publication Date | Patent No. | Grant Date | Owner | Registered name of owner |
|-------------------|-----------------------|--------------------------|-------------|--------------------|------------|--------------------|------------------|------------|------------|-------|--------------------------|
| BR9438-EP- PCT | VX with metal seal | European Patent | Published | 14776698.8 | 2015-10-15 | 3297208 | 2017-02-23 | | | VOGF | VOGF |
| BR9458-FR-3N | VX with metal seal | France | Granted | 14899034 | 2015-10-16 | 3027338 | 2016-04-23 | 3027338 | 2016-12-02 | VOGF | VOGF |
| BR9458-GCC- 3N | VX with metal seal | Gulf Cooperation Council | Application | 2015040301 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-ID- PCT | VX with metal seal | Indonesia | Application | PI0201702037 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-IN- PCT | VX with metal seal | India | Published | 20171798503 | 2015-10-14 | 23171709807 | 2017-09-11 | | | VOGF | VOGF |
| BR9458-IO-8N | VX with metal seal | Iraq | Granted | 3282/2015 | 2015-10-08 | | | 4697 | 2015-08-10 | VOGF | VOGF |
| BR9458-JP- PCT | VX with metal seal | Japan | Published | 2017-530346 | 2015-10-14 | 2017-532512 | 2017-11-02 | | | VOGF | VOGF |
| BR9458-MX- PCT | VX with metal seal | Mexico | Published | MX/A/2017/007817 | 2015-10-14 | MX/A/2017/034917 | 2017-07-19 | | | VOGF | VOGF |
| BR9458-MY- PCT | VX with metal seal | Malaysia | Application | PI201770383 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-MG- PCT | VX with metal seal | Nigeria | Allowed | FR/20171174 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-OM- PCT | VX with metal seal | O.A.P.I. | Application | | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-TH- PCT | VX with metal seal | Thailand | Application | 1701002028 | 2015-10-14 | | | | | VOGF | VOGF |
| BR9458-UA- PCT | VX with metal seal | Ukraine | Application | u201703546 | 2015-10-14 | | | | | VOGF | VOGF |
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