

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5270747

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
VALLOUREC DRILLING PRODUCTS FRANCE	04/25/2018
RECEIVING PARTY DATA	
Name:	TUBOSCOPE VETCO (FRANCE) SAS
Street Address:	COMBLE DU PRE PIEMARD
Internal Address:	B.P. 36
City:	BERLAIMONT
State/Country:	FRANCE
Postal Code:	59145
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14234542
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:	7132388000
Email:	houpatmail@conleyrose.com, lmcbyrde@conleyrose.com
Correspondent Name:	CONLEY ROSE, PC
Address Line 1:	575 N. DAIRY ASHFORD RD., SUITE 1102
Address Line 4:	HOUSTON, TEXAS 77079
ATTORNEY DOCKET NUMBER:	3314-49000
NAME OF SUBMITTER:	GREGORY L. MAAG
SIGNATURE:	/gregory l. maag/
DATE SIGNED:	12/06/2018
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").

1
PATENT

REEL: 047735 FRAME: 0573

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]

13

PATENT
REEL: 047735 FRAME: 0585

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/axiale	United Arab Emirates	Allowed	356/2011	2009-10-05					VOGF	VMOGF
BR7433-AR-BN	Composant radieur radiateur/axiale	Argentina	Granted	P1990103843	2009-10-05	073776	2010-12-01	73776	2015-05-21	VOGF	VOGF
BR7433-AT-ECT	Composant radieur radiateur/axiale	Austria	Granted	09783719.9	2009-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-BR-PCT	Composant radieur radiateur/axiale	Brazil	Published	P109202245-5	2009-10-05	P109202245	2015-12-28			VOGF	VOGF
BR7433-CA-PCT	Composant radieur radiateur/axiale	Canada	Granted	2738094	2009-10-05	2738094	2010-04-22	2738094	2016-10-04	VOGF	VOGF
BR7433-CN-PCT	Composant radieur radiateur/axiale	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/axiale	Czech Republic	Granted	09783719.9	2009-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-DE-ECT	Composant radieur radiateur/axiale	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/axiale	European Patent	Granted	09783719.9	2009-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-FR-BN	Composant radieur radiateur/axiale	France	Granted	0905993	2009-10-15	2997077	2010-04-16	2997077	2010-10-22	VOGF	VOGF
BR7433-FR-ECT	Composant radieur radiateur/axiale	France	Granted	09783719.9	2009-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-GB-ECT	Composant radieur radiateur/axiale	United Kingdom	Granted	09783719.9	2009-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VMOGF
BR7433-ID-PCT	Composant radieur radiateur/axiale	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/axiale	India	Published	2517/DHENV/2011	2009-10-05	2517/DHENV/2011	2012-08-17			VOGF	VMOGF

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-IT-ECT	Component radiateur radiateur/ radiateur/ axe/axe	Italy	Granted	08783719.9	2008-10-05	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	2011003431	2011-04-21	315775	2013-11-27	VOGF	VOGF
BR7433-PL-ECT	Component radiateur radiateur/ radiateur/ axe/axe	Poland	Granted	08783715.9	2008-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-RO-ECT	Component radiateur radiateur/ radiateur/ axe/axe	Romania	Granted	08783719.9	2008-10-05	2344802	2011-07-20	2344802	2013-07-31	VOGF	VOGF
BR7433-RU-PCT	Component radiateur radiateur/ radiateur/ axe/axe	Russian Federation	Granted	2011/119480	2008-10-05			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

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
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	2014/327242	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-BN	Low torque double shoulder	Argentina	Published	P120105078	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-BN	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

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
BR7445-IT-ECT	Low torque double shoulder	Italy	Granted	12821278.4	2012-12-28	2798141	2014-11-05	502016000 015299	2015-12-18	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	2015-12-18	VOGF	VOGF
BR7445-RO- ECT	Low torque double shoulder	Romania	Granted	12821278.4	2012-12-20	2798141	2014-11-05	2798141	2015-12-18	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	2014/151400	2013-06-12	2014/151400	2016-07-10	2631059	2017-09-18	VOEFR	VOF
BR7446-US- PCT	Hydroclean Max	United States of America	Published	14/234542	2013-06-12	20150361729	2015-12-17			VOEFR	VOEFR
BR0404-R-BN	VAM TAURUS	Argentina	Granted	P980102797	1989-05-11	98.0102797	2001-12-11	0198567	2005-01-23	VAD	VMD
BR0404-BR- PCT	VAM TAURUS	Brazil	Granted	P19811225-6	1989-05-21	P19811225	2001-02-20	P19811225	2007-10-09	VAD	VMD
BR0404-CA- PCT	VAM TAURUS	Canada	Granted	2,334,926	1989-05-21	2324926	1989-12-23	2334926	2005-07-09	VAD	VMD
BR0404-CN- PCT	VAM TAURUS	China	Granted	98807414.4	1989-05-21	1395561	2001-07-25	1115466	2003-07-23	VAD	VMD
BR0404-DE- ECT	VAM TAURUS	Germany (Federal Republic of)	Granted	59913178.0	1989-05-21	1088150	1989-12-23	59913178	2005-03-01	VAD	VMD
BR0404-DK- ECT	VAM TAURUS	Denmark	Granted	98863536.9	1989-05-21	1088150	1989-12-23	1088150	2005-03-01	VAD	VMD
BR0404-EA- EAT	VAM TAURUS	Eurasian Patent Convention	Granted	2001/00048	1989-05-21			002252	2002-02-28	VAD	VMD

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
BR9304-EP-ECT	VAM TAURUS	European Patent	Granted	982003336.8	1998-05-21	1998158	1998-12-23	1088196	2000-03-09	VAD	VADCSG
BR9304-FR-ECT	VAM TAURUS	France	Granted	98232222.8	1998-05-21	1088158	1998-12-23	1088158	2000-03-09	VAD	VAD
BR9304-GB-ECT	VAM TAURUS	United Kingdom	Granted	98032322.8	1998-05-21	1088158	1998-12-23	1088158	2000-03-09	VAD	VAD
BR9304-ID-PCT	VAM TAURUS	Indonesia	Granted	98-2000-2024	1998-05-21	26712	2001-02-01	0000355	2002-11-21	VAD	VADCSG
BR9304-IT-ECT	VAM TAURUS	Italy	Granted	990303338.8	1999-05-21	1088158	1999-12-23	405482	2000-05-01	VAD	VADCSG
BR9304-JP-PCT	VAM TAURUS	Japan	Granted	2000-554682	1999-05-21	2002-518517	2002-08-25	3780888	2005-01-13	VAD	VAD
BR9304-MX-PCT	VAM TAURUS	Mexico	Granted	PA4/2000/071 2080	1998-05-21			221021	2004-06-18	VAD	VAD
BR9304-NO-PCT	VAM TAURUS	Norway	Granted	20000824	1998-05-21	20006324	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	982003331	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	61913,840	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	01884430.8	2000-10-10	1232322	2001-05-17	0249807	2003-08-25	VAD	VAD
BR9304-BB-ECT	WORKOVER RISER HP	Brazil	Granted	PI021644.7	2000-10-10	PI0016454	2002-07-08	PI0016454	2003-08-03	VAD	VAD
BR9304-CA-PCT	WORKOVER RISER HP	Canada	Granted	2388216	2000-10-10	2388216	2003-01-01	2388216	2003-01-23	VAD	VAD
BR9304-DE-ECT	WORKOVER RISER HP	Germany (Federal Republic of)	Granted	52003878.3	2000-10-10	1232322	2001-05-17	1232322	2003-08-25	VAD	VAD
BR9304-EP-ECT	WORKOVER RISER HP	European Patent	Granted	02004430.8	2000-10-10	1232322	2001-05-17	1232322	2003-08-25	VAD	VADCSG
BR9304-FR-ECT	WORKOVER RISER HP	France	Granted	02004430.8	2000-10-10	1232322	2001-05-17	1232322	2003-08-25	VAD	VAD
BR9304-GB-ECT	WORKOVER RISER HP	United Kingdom	Granted	02004430.8	2000-10-10	1232322	2001-05-17	1232322	2003-08-25	VAD	VAD

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
BR8041-ID-PCT	WORKOVER RISER HP	Indonesia	Granted	WO85-2002-01699	2008-10-10			0014963	2004-12-27	VAD	VMCOG
BR8041-IT-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/02/032/002848	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 - Yam Express VX patent coverage	United Arab Emirates	Application	P786/2007	2005-03-02					VOGF	VMOGF
BR8227-AZ-EAT	DRILL STEM CONNECTION - Yam Express VX patent coverage	Azerbaijan	Granted	2007/01985	2005-03-02			010138	2008-06-30	VOGF	VMOGF
BR8227-BR-PCT	DRILL STEM CONNECTION - Yam 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 - Yam Express VX patent coverage	Canada	Granted	2725126	2005-03-02				2012-12-11	VOGF	VOGF
BR8227-CA-DIV2	DRILL STEM CONNECTION - Yam 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 - Yam Express VX patent coverage	Canada	Granted	2602473	2005-03-02	2602473	2008-09-08	2602473	2012-05-15	VOGF	VOGF

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
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	20099004886 1.5	2005-03-02	101184903	2009-05-21			VOGF	VMOGSF
BR9227-DE-PCT	DRILL STEM CONNECTION - Van Express VX patent coverage	Algeria	Granted	0718818	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	2008-06-30	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			283221	2017-05-09	VOGF	VOGF
BR9227-JP-DIV	DRILL STEM CONNECTION - Van Express VX patent coverage	Japan	Granted	2010284182	2005-03-02	2011-054404	2011-05-12	5403626	2013-11-08	VOGF	VMOGSF
BR9227-JP-PCT	DRILL STEM CONNECTION -	Japan	Granted	200755701	2005-03-02			4840164	2012-03-02	VOGF	VMOGSF

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
	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	Filed Date	Publication Number	Publication Date	Patent No.	Grant Date	Owner	Registered name of owner
BR9341-NO-BN	Équipement d'un bras de torsion de torsion	Norway	Granted	9803140	1998-03-19			319226	2005-07-04	VDPER	VDP
BR9341-US-BN	Élément d'un bras de torsion de torsion	United States of America	Granted	08403338	1998-03-16			6,588,073	2003-05-02	VDPER	VDP
BR9342-EP-OEB	Équipement de torsion rotatif et de torsion rotatif	European Patent	Granted	08400197.5	2002-01-25	1028384	2003-09-08	1028384	2005-06-08	VDPER	SARFI
BR9342-FR-BN	Élément profilé pour un équipement de torsion rotatif et de torsion rotatif	France	Granted	9901391	1999-02-05	2788498	2000-08-11	2789432	2001-05-04	VDPER	VDP
BR9342-FR-OEB	Élément profilé pour un équipement de torsion rotatif et de torsion rotatif	France	Granted	08488190.5	2000-01-25	1028384	2000-08-08	1028384	2005-06-08	VDPER	VDP
BR9342-GB-OEB	Élément profilé pour un équipement de torsion rotatif et de torsion rotatif	United Kingdom	Granted	08488190.5	2000-01-25	1028384	2000-08-08	1028384	2005-06-08	VDPER	SARFI
BR9342-NO-BN	Équipement de torsion rotatif et de torsion rotatif	Norway	Granted	20000556	2000-02-03	20000555	2000-08-07	372967	2005-12-16	VDPER	VDP

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
	meant un bonjour probe										
BR9242-NO-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	VPF
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	2006-02-03			6348779	2007-02-28	VDPER	VPF
BR9243-US-8N	Element profile pour un équipement de forage rotatif et applications à des composants d'un train de forage de forage	United States of America	Granted	10/160042	2006-06-28	2006/271879	2006-12-04	6,792,821	2006-06-11	VDPER	VPF
BR9246-FR-8N	Element of un train de forage comportant au moins une zone 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 forage comportant au moins une zone 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	6/12013	2010-07-20					VDPER-ADMIN	VPF-ADMIN

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
BR9326-BR-PCT	Tige de forage instrumentee	Brazil	Published	PI1015019-1	2010-07-20	PI1015019	2010-04-26			VDFPR-ARMINE	VDF-ARMINE
BR9326-CN-PCT	Tige 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	Tige 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	Tige de forage instrumentee	Norway	Published	2E1-07	2010-07-20	20120155	2012-04-19			VDFPR-ARMINE	VDF-ARMINE
BR9326-US-PCT	Tige 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 backrearing function	Brazil	Published	11201400793 2-3	2012-10-01	11201400793 2	2017-04-18			VDFPR	VDFPR
BR9403-CN-PCT	Low torque sub with backrearing 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 backrearing 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 backrearing function	Gulf Cooperation Council	Approved	2013222424	2012-10-02					VDFPR	VDF
BR9403-US-PCT	Low torque sub with backrearing 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	Shake drill pipe 4 14	Argentina	Application	PI140100244	2014-01-27					VDFPR	VDFPR

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
BR3444-A1-ECT	Shake and pipe 4 1/4	Austria	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-A1-PCT	Shake and pipe 4 1/4	Australia	Granted	2014/308889	2014-01-27	2014298899	2015-07-02	2014298899	2017-08-08	VDPRUS	VDPRUS
BR3444-CA-PCT	Shake and pipe 4 1/4	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 1/4	China	Allowed	20148000841	2014-01-27	105247159	2016-01-13			VDPRUS	VDPRUS
BR3444-DS-ECT	Shake and pipe 4 1/4	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 1/4	Denmark	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-DZ-PCT	Shake and pipe 4 1/4	Algeria	Application	150344	2014-01-27					VDPRUS	VDPRUS
BR3444-EP-ECT	Shake and pipe 4 1/4	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 1/4	France	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-GB-ECT	Shake and pipe 4 1/4	United Kingdom	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-CLC-BN	Shake and pipe 4 1/4	Cooperacion Cultural	Application	2014/20294	2014-01-23					VDPRUS	VDPRUS
BR3444-ID-PCT	Shake and pipe 4 1/4	Indonesia	Published	P1620180384	2014-01-27	201703279	2017-03-31			VDPRUS	VDPRUS
BR3444-IT-ECT	Shake and pipe 4 1/4	Italy	Granted	80201703808	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-NL-ECT	Shake and pipe 4 1/4	Netherlands	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-NZ-ECT	Shake and pipe 4 1/4	Norway	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-TR-ECT	Shake and pipe 4 1/4	Turkey	Granted	14703417.7	2014-01-27	2948613	2015-12-02	2948613	2017-04-05	VDPRUS	VDPRUS
BR3444-US-BN	Shake and pipe 4 1/4	United States of America	Granted	13/751686	2014-01-28	2014209354	2014-07-31	8,222,394	2015-12-28	VDPRUS	VDPRUS
BR3444-ZA-PCT	Shake and pipe 4 1/4	South Africa	Granted	2015/04481	2014-01-27			20150448	2016-11-30	VDPRUS	VDPRUS
BR3444-SR-PCT	Handing - CAT Cold Metal Bending technology	Brazil	Application	11301507089	2014-12-22					VDPRR	VDPRR

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
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	14031004.8	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	2016129467	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	BRN15017383 S1	2015-10-14					VOGPF	VOGPF
BR3440-JP-PCT	VX with metal seal	Japan	Published	1120170219 A,2	2015-10-14	11261700719 5	2017-04-18			VOGPF	VOGPF
BR3440-CA-PCT	VX with metal seal	Canada	Published	2,982,938	2015-10-14	2,982,938	2016-04-21			VOGPF	VOGPF

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
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	20176538	2016-10-14					VOGF	VOGF
BR9438-EP-ECT	VX with metal seal	European Patent	Published	15718986.B	2015-10-14	3297295	2017-08-23			VOGF	VOGF
BR9438-FR-GN	VX with metal seal	France	Granted	1459934	2014-10-19	3027338	2016-04-22	3027338	2016-12-02	VOGF	VOGF
BR9438-GC-BN	VX with metal seal	Gulf Cooperation Council	Application	2016/00231	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	2011709807 7	2015-10-14	2017109807 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	2017193848	2015-10-14					VOGF	VOGF
BR9438-US-PCT	VX with metal seal	United States of America	Published	150316.709	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	52842	2017-08-28			VOGF	VOGF
BR9438-AR-BN	Medical shoulder	Argentina	Published	P15018405	2016-12-04	103586	2017-09-21			VOGF	VOGF

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
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	2016-08-16			VOGF	VOGF
BR9466-CN-PCT	Medical shoulder	China	Published	30138028851	2015-12-08	1037602472	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	1483703	2015-12-08	3029293	2016-09-10	3029293	2017-04-26	VOGF	VOGF
BR9466-ID-PCT	Medical shoulder	Indonesia	Application	PI020170360	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/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	15/624,853	2016-12-08					VOGF	VOGF
DEM001-US	Shoulder fix	United States of America	Granted	3944423	2013-01-28			0728389	2015-04-07	VOFUS	VOUG

See reference to field markers, designations and to make registrations of priority

[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
BR0384-EP-ECT	WOP/TBead entry	Allowed	European Patent	09141028.0	2009-09-22	2301736	2011-05-16			VDPRR	VDPR
BR0384-EP-EN	WOP/TBead entry	Granted	France	08089378	2008-09-30	2626554	2010-04-02	2836654	2010-10-29	VDPRR	VDPR
BR0384-US-PCT	WOP/TBead entry	Granted	United States of America	14060395	2008-09-30	2011155470	2011-05-30	8,844,654	2014-09-30	VDPRR	VDPRR
BR0318-EP-PCT	WOP/ Guide tube cylindrical holder	Published	Brasil	PI1012640-6	2010-03-04	PI1012640	2012-11-27			VDPRR	VDPR
BR0318-EP-DEB	WOP/ Guide tube cylindrical holder	Granted	European Patent	09280230.3	2009-03-30	2236736	2010-10-06	2230736	2012-13-12	VDPRR	VDPRR
BR0318-US-PCT	WOP/ Guide tube cylindrical holder	Granted	United States of America	130260736	2010-03-04	2012111655	2012-05-10	5,206,496	2015-12-01	VDPRR	VDPRR
BR0303-EP-PCT	Direct contact coupler with balanced pressure	Application	Brasil	11201302193-9-0	2012-02-28					VDPRR	VDPR
BR0303-EP-ECT	Direct contact coupler with balanced pressure	Published	European Patent	12706597.8	2012-02-28	2981405	2014-01-08			VDPRR	VDPR
BR0303-EP-EN	Direct contact coupler with balanced pressure	Granted	France	1100810	2011-09-01	2872215	2012-05-07	2872215	2015-03-22	VDPRR	VDPR
BR0303-EP-EN	Direct contact coupler with balanced pressure	Application	Gulf Cooperation Council	2012020646	2012-02-28					VDPRR	VDPR
BR0303-US-PCT	Direct contact coupler with balanced pressure	Granted	United States of America	140602238	2012-02-28	2014-0304393	2014-05-06	5,441,435	2015-08-13	VDPRR	VDPRR
BR0303-EP-PCT	Direct contact coupler with balanced pressure	Application	Brasil	11201302193-9-0	2012-02-28					VDPRR	VDPR
BR0303-EP-ECT	Direct contact coupler with balanced pressure	Published	European Patent	12706597.8	2012-02-28	2981401	2014-01-08			VDPRR	VDPR
BR0303-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	Inner sleeve with cable storage	Application	Gulf Cooperation Council	20112020948	2012-02-08					VOFFER	VOFF
BR03082-US-PCT	Inner sleeve with cable storage	Granted	United States of America	141602289	2012-02-28	2014-0162289	2014-09-17	8,447,844	2018-08-28	VOFFER	VOFFER
BR03080-BN-PCT	High Frequency antenna coupler	Published	Brazil	11201300883-8-8	2011-09-21	11201300883-8-8	2018-08-14			VOFFER	VOFF
BR03080-CA-PCT	High Frequency antenna coupler	Published	Canada	2811365	2011-09-21	2811365	2012-03-28			VOFFER	VOFF
BR03080-EP-ECT	High Frequency antenna coupler	Published	European Patent	11797899.7	2011-09-21	2019414	2013-07-31			VOFFER	VOFF
BR03080-FR-BN	High Frequency antenna coupler	Granted	France	1057724	2010-09-24	2865418	2012-08-30	2865418	2012-08-07	VOFFER	VOFF
BR03080-GOCC-BN	High Frequency antenna coupler	Allowed	Gulf Cooperation Council	2011119347	2011-09-21					VOFFER	VOFF
BR03080-US-PCT	High Frequency antenna coupler	Granted	United States of America	13827462	2011-09-21	2013189385	2013-07-04	9,522,224	2016-04-28	VOFFER	VOFFER
BR03080-BN-PCT	Security element for surface interface - antenna selection	Application	Brazil	11201300389-9-2	2012-09-22					VOFFER	VOFF
BR03080-EP-ECT	Security element for surface interface - antenna selection	Published	European Patent	142729588.8	2012-09-22	2729970	2014-04-30			VOFFER	VOFF
BR03080-FR-BN	Security element for surface interface - antenna selection	Granted	France	11019206	2011-06-02	2975968	2012-12-28	2975968	2013-07-03	VOFFER	VOFF
BR03080-COCC-BN	Security element for surface interface - antenna selection	Application	Gulf Cooperation Council	2012021888	2012-06-23					VOFFER	VOFF
BR03080-US-PCT	Security element for surface interface - antenna selection	Published	United States of America	141727584	2012-09-22	2014-0164073	2014-04-17			VOFFER	VOFFER
BR03200-BN-PCT	WDP1 Backbone spring Sleeve	Published	Brazil	P10924988-5	2009-09-07	P10924988	2018-02-02			VOFFER	VOFF

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
BR0920-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
BR0923-DE-ECT	WDP: Backbone spring sleeve	Granted	Eurasian Patent	09786028.6	2008-08-07	2430281	2012-03-21	2430281	2013-09-25	VDPFR	VDP
BR0923-DE-ECT	WDP: Backbone spring sleeve	Granted	France	09786028.6	2008-08-07	2430281	2012-03-21	2430281	2013-09-25	VDPFR	VDP
BR0921-DE-ECT	WDP: Backbone spring sleeve	Granted	United Kingdom	09786028.6	2008-08-07	2430281	2012-03-21	2430281	2013-09-25	VDPFR	VDP
BR0921-NO-ECT	WDP: Backbone spring sleeve	Granted	Norway	09786028.6	2008-08-07	2430281	2012-03-21	2430281	2013-09-25	VDPFR	VDP
BR0923-US-ECT	WDP: Backbone spring sleeve	Granted	United States of America	137318630.6-3	2009-05-07	30127034862.3	2012-04-01	9,217,298	2013-12-22	VDPFR	VDPFR
BR0946-GR-ECT	Inner sleeve WITHOUT Anchoring and SCREWED cable	Application	Greece	11201400848	2012-03-04					VDPFR	VDPFR
BR0946-DE-ECT	Inner sleeve WITHOUT Anchoring and SCREWED cable	Publisher	European Patent	12793018.6	2012-03-04	2766555	2014-08-28			VDPFR	VDPFR
BR0948-FR-EN	Inner sleeve WITHOUT Anchoring and SCREWED cable	Granted	France	1103153	2011-09-14	2581354	2013-04-10	2581354	2013-11-03	VDPFR	VDP
BR0949-CC-EN	Inner sleeve WITHOUT Anchoring and SCREWED cable	Granted	Costa Rica	2012022807	2012-03-10			4225	2015-12-31	VDPFR	VDP
BR0949-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
BR0918-FR-EN	WDP: High flexibility guide sleeve	Granted	France	0800019	2008-01-06	23912616	2010-07-29	23912616	2011-02-08	VDPFR	VDP
BR0913-US-ECT	WDP: High flexibility guide sleeve	Granted	United States of America	13114319	2010-07-04	2011030475	2013-12-03	9,291,004	2016-03-22	VDPFR	VDPFR
BR0914-CH-NU	Sealing direct connect	Granted	China	ZL2011202579.9	2011-11-16	202699395	2013-07-23	ZL2011202579.9	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-BN	Seeking direct connect	Granted	France	1603448	2010-11-18	267482	2014-05-18	267482	2012-11-18	VDPFR	VDP
BR0374-US-BN	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	2012-04-05	VDPFR	VDP
BR0374-FR-BN	Electromagnetic coupler	Published	France	11600523	2011-02-02	2671882	2012-08-24			VDPFR	VDP
BR0374-FR-ECT	Electromagnetic coupler	Granted	France	13706808.2	2012-02-02	2678515	2014-01-01	2678515	2012-04-05	VDPFR	VDP
BR0374-GB-ECT	Electromagnetic coupler	Granted	United Kingdom	12706808.2	2012-02-02	2678515	2014-01-01	2678515	2012-04-05	VDPFR	VDP
BR0374-CO-BN	Electromagnetic coupler	Application	Guif Cooperation Council	2012020589	2012-02-02			2671882	2012	VDPFR	VDP
BR0374-NO-ECT	Electromagnetic coupler	Granted	Norway	12706808.2	2012-02-02	2678515	2014-01-01	2678515	2012-04-05	VDPFR	VDP
BR0374-US-ECT	Electromagnetic coupler	Published	United States of America	14600006	2012-02-02	2014-0041945	2014-02-13			VDPFR	VDPFR
BR0380-FR-ECT	Direct contact coupler with electric shield	Published	Brazil	11201302286	2012-02-02	112013E+11	2016-11-29			VDPFR	VDP
BR0380-DE-ECT	Direct contact coupler with electric shield	Granted	Germany (Federal Republic of)	80201220714	2012-02-02	2681402	2014-01-08	2681402	2012-05-08	VDPFR	VDPFR
BR0380-EP-ECT	Direct contact coupler with electric shield	Granted	European Patent	80201220714	2012-02-02	2681402	2014-01-08	2681402	2012-05-08	VDPFR	VDPFR
BR0380-FR-BN	Direct contact coupler with electric shield	Granted	France	11600611	2011-02-01	2687311	2012-08-07	2687311	2012-11-01	VDPFR	VDP
BR0380-FR-ECT	Direct contact coupler with electric shield	Granted	France	12705946.5	2012-02-02	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	144003372	2012-02-28	2014/0090338	2014-03-20	9,329,084	2016-04-26	VDPFR	VDPFR
BR93897-EP-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-SM	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	2011/19400	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-EP-ECT	Coupler with armature	Published	Brazil	11201460130-7-1	2012-07-26	112014E-11	2017-02-21			VDPFR	VDF
BR93901-FR-SM	Coupler with armature	Published	European Patent	12744441.3	2013-07-26	2737197	2014-05-04			VDPFR	VDF
BR93901-FR-SM	Coupler with armature	Granted	France	11923248	2011-07-27	2679619	2013-03-01	2679619	2014-02-26	VDPFR	VDF
BR93901-GCC-SM	Coupler with armature	Application	Gulf Cooperation Council	2012/1879	2012-07-28					VDPFR	VDF
BR93901-US-ECT	Coupler with armature	Granted	United States of America	14234785	2012-07-25	2014-0174715	2014-05-28	9,723,964	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	2009/8013905 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	2011/003431	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- EPT	VX with metal seal	European Patent	Published	14776698.8	2015-10-15	3297208	2017-02-23			VOGF	VOGF
BR9438-FR-3N	VX with metal seal	France	Granted	14899034	2015-10-16	3027338	2016-04-23	3027338	2016-12-02	VOGF	VOGF
BR9438-QCC- 3N	VX with metal seal	Gulf Cooperation Council	Application	2015040301	2015-10-14					VOGF	VOGF
BR9438-ID- PCT	VX with metal seal	Indonesia	Application	PI0201702037	2015-10-14					VOGF	VOGF
BR9438-IN- PCT	VX with metal seal	India	Published	201717065037	2015-10-14	23171709807	2017-09-11			VOGF	VOGF
BR9438-IO-8N	VX with metal seal	Iraq	Granted	32892016	2015-10-08			4697	2015-08-10	VOGF	VOGF
BR9438-JP- PCT	VX with metal seal	Japan	Published	2017-530346	2015-10-14	2017-532512	2017-11-02			VOGF	VOGF
BR9438-MX- PCT	VX with metal seal	Mexico	Published	MX/A/2017/007897	2015-10-14	MX/A/2017/034977	2017-07-19			VOGF	VOGF
BR9438-MY- PCT	VX with metal seal	Malaysia	Application	PI2017703837	2015-10-14					VOGF	VOGF
BR9438-MG- PCT	VX with metal seal	Nigeria	Allowed	FR/20171174	2015-10-14					VOGF	VOGF
BR9438-OM- PCT	VX with metal seal	O.A.P.I.	Application		2015-10-14					VOGF	VOGF
BR9438-TH- PCT	VX with metal seal	Thailand	Application	1701002028	2015-10-14					VOGF	VOGF
BR9438-UA- PCT	VX with metal seal	Ukraine	Application	u201703546	2015-10-14					VOGF	VOGF
BR9438-US- PCT	VX with metal seal	United States of America	Published	150316709	2015-10-14	2017029899	2017-10-19			VOGF	VOGF
BR9438-VN- PCT	VX with metal seal	Vietnam	Published	1-2017-01381	2015-10-14	53942	2017-08-26			VOGF	VOGF