

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: TMI103999

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT OF THE ENTIRE INTEREST AND THE GOODWILL		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
NOV International Holdings C.V.		03/27/2022	private company with limited liability : NETHERLANDS
<b>RECEIVING PARTY DATA</b>			
<b>Company Name:</b>	Grant Prideco, Inc.		
<b>Street Address:</b>	10353 Richmond Avenue		
<b>City:</b>	Houston		
<b>State/Country:</b>	TEXAS		
<b>Postal Code:</b>	77042		
<b>Entity Type:</b>	Corporation: DELAWARE		
<b>PROPERTY NUMBERS Total: 1</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	2994145	CEC	
<b>CORRESPONDENCE DATA</b>			
<b>Fax Number:</b>	7132388008		
<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>			
<b>Phone:</b>	7132388000		
<b>Email:</b>	TMPTO@conleyrose.com		
<b>Correspondent Name:</b>	Matthew R. Moscicki		
<b>Address Line 1:</b>	Conley Rose, P.C.		
<b>Address Line 2:</b>	P.O. Box 3267		
<b>Address Line 4:</b>	Houston, TEXAS 77253		
<b>ATTORNEY DOCKET NUMBER:</b>	3420-09000		
<b>NAME OF SUBMITTER:</b>	CHRISTINA JENSEN		
<b>SIGNATURE:</b>	CHRISTINA JENSEN		
<b>DATE SIGNED:</b>	04/02/2024		
<b>Total Attachments: 49</b>			
source=Asst from NOV International Holdings C.V. to Grant Prideco, Inc. w schedule#page1.tif			
source=Asst from NOV International Holdings C.V. to Grant Prideco, Inc. w schedule#page2.tif			
source=Asst from NOV International Holdings C.V. to Grant Prideco, Inc. w schedule#page3.tif			

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## INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

THIS INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT (this “Agreement”) is made and entered effective as of March 27, 2022 (the “Effective Date”) by and between:

- (a) **NOV International Holdings C.V.**, a private company with limited liability organized and existing under the laws of the Netherlands and registered with the Trade Register of the Chamber of Commerce under number 72186399, represented by its general partner, NOV International Holdings GP LLC, a Delaware limited liability company (“Assignor”); and
- (b) **Grant Prideco, Inc.**, a Delaware corporation (“Assignee”).

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

### RECITALS

- A. **WHEREAS**, the Parties are affiliates of NOV Inc., a Delaware corporation (“NOV”);
- B. **WHEREAS**, for purposes of this Agreement, “Intellectual Property Rights” shall mean any and all of the following rights arising pursuant to any applicable law: (a) trademarks, service marks, intent-to-use trademarks, trade names, logos, slogans, and similar indicia of source or origin, all registrations and applications for registration thereof, and the goodwill connected with the use of and symbolized by the foregoing; (b) copyrights and all registrations and applications for registration thereof, and copyrightable works; (c) trade secrets and know-how, inventions and invention disclosures (whether or not patentable and whether or not reduced to practice), ideas, discoveries, improvements, technology, technical information, data, databases, data compilations and collections, tools, methods, processes, formulae, strategies, prototypes, techniques, plans, drawings, blue prints, schematics, flow charts, models, business information, customer and supplier lists and records, pricing and cost information, financial, sales, and marketing plans and proposals, and all other confidential or proprietary information (collectively, “Trade Secrets”); (d) patents and patent applications of any kind (whether provisional or non-provisional), and similar government authority-issued indicia of invention ownership; (e) internet domain name registrations, social media account names, webshop names and e-commerce channel names, all associated web addresses, URLs, websites, and web pages, social media pages, and all content and data thereon; (f) computer programs, operating systems, applications, firmware, and other code, including all source code, object code, application programming interfaces, data files, databases, protocols, specifications, and other documentation thereof; and (g) other intellectual property and related proprietary rights; and
- C. **WHEREAS**, as part of an internal restructuring, NOV has determined that it is in the best interest of the Parties that they enter into that certain Distribution Agreement, dated as of the Effective Date, among Assignor, as transferor, and Assignee, National Oilwell Varco, L.P., and NOV International Holdings GP, LLC, as transferees, pursuant to which Assignor transferred all of its Intellectual Property Rights (except for any Excluded Intellectual Property Rights (defined below)) to Assignee, including but not limited to those certain trademarks, service marks, design marks, and logos as set forth in **Exhibit A** (the “Assigned Marks”), together with the goodwill associated therewith, and those certain patents and patent applications as set forth in **Exhibit B** (the “Assigned Patents”), to Assignee;
- D. **WHEREAS**, the Parties intend to enter into this Agreement to memorialize the transfer of such Intellectual Property Rights pursuant to the Distribution Agreement and provide Assignee with a

document that can be filed and shared with the applicable patent and trademark offices for the purpose of registering such transfer, pursuant to the terms and subject to the conditions of this Agreement.

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

### **AGREEMENT**

1. Assignment of Intellectual Property Rights. Assignor hereby sells, assigns, transfers, and sets over to Assignee, Assignor's entire right, title, and interest in and to all Intellectual Property Rights owned by Assignor, except for any Intellectual Property Rights specifically listed in **Exhibit C** (the "Excluded Intellectual Property Rights"), for the United States and for all foreign countries, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Agreement had not been executed, together with all income, royalties, or payments due or payable as of the Effective Date or thereafter, including all claims for damages by reason of past, present, or future infringement or other unauthorized use, with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.
2. Assigned Marks. Without limiting the foregoing, Assignor hereby sells, assigns, transfers, and sets over to Assignee, Assignor's entire right, title, and interest in and to the Assigned Marks, together with the goodwill of the Assigned Marks, for the United States and for all foreign countries, including any renewals or extensions thereof that are or may be secured under the laws of the United States or foreign countries now or hereafter in effect and including the subject matter of all claims which may be obtained therefrom for its own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Agreement had not been executed, together with all income, royalties, or payments due or payable as of the Effective Date or thereafter, including all claims for damages by reason of past, present, or future infringement or other unauthorized use, with the right to sue for, and collect the same for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives.
  - 2.1. Assignee will record the Memorandum of Trademark Assignment attached as **Exhibit D** as it deems necessary and at its sole expense. Assignor will take additional steps and sign additional documents as reasonably requested by Assignee to perfect this assignment (at Assignee's sole cost and expense).
  - 2.2. Beginning on the Effective Date, Assignor acknowledges that Assignee is the owner of all right, title, and interest in and to the Assigned Marks, and Assignor further acknowledges that it has no ownership interest in the Assigned Marks and will not acquire any ownership interest in the Assigned Marks by reason of this Agreement. Assignor will take additional steps and sign additional documents as reasonably requested by Assignee to secure trademark registration or other intellectual-property protection for the Assigned Marks (at Assignee's sole cost and expense).
  - 2.3. Assignor will not at any time do or knowingly permit to be done any act or thing that would or would reasonably be likely to impair the rights of Assignee in and to the Assigned Marks or adversely affect the validity of the Assigned Marks.

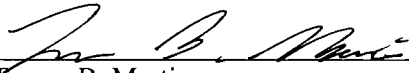
3. Assigned Patents. Without limiting the foregoing, Assignor hereby sells, assigns, transfers, and sets over to Assignee, Assignor's entire right, title, and interest in and to the Assigned Patents, including any and all patents to grant therefrom and later-filed, related patent applications, together with all rights of registration, maintenance, and protection thereof in any form, rights to claim priority therefrom and all rights to income, royalties, damages, and payments due or payable as of the Effective Date or thereafter, and all rights of recovery and of legal action for past or future infringements and of interference proceedings and reexaminations involving such Assigned Patents.
  - 3.1. Assignee will record the Memorandum of Patent Assignment attached as **Exhibit E** as it deems necessary and at its sole expense. Assignor will take additional steps and sign additional documents as reasonably requested by Assignee to perfect this assignment (at Assignee's sole cost and expense).
  - 3.2. Beginning on the Effective Date, Assignor acknowledges that Assignee is the owners of all right, title, and interest in and to the Assigned Patents, and Assignor further acknowledges that it has no ownership interest in the Assigned Patents and will not acquire any ownership interest in the Assigned Patents by reason of this Agreement. Assignor will take additional steps and sign additional documents as reasonably requested by Assignee to secure patent registration or other intellectual-property protection for the Assigned Patents (at Assignee's sole cost and expense).
  - 3.3. Assignor will not at any time do or knowingly permit to be done any act or thing that would or would reasonably be likely to impair the rights of Assignee in and to the Assigned Patents or adversely affect the validity of the Assigned Patents.
4. Assignment. The rights and obligations of any Party hereunder shall not be assignable or otherwise transferable without the prior written consent of the other Parties, except that all rights hereunder shall inure to the benefit of any successor in interest.
5. Governing Law. The validity, interpretation and enforcement of this Agreement will be governed by the laws of the State of Delaware without regard to conflicts of law principles that would require application of any other law. Any action or proceeding arising out of or relating to this Agreement must be brought in the State of Delaware, and each of the Parties irrevocably submits to the exclusive jurisdiction of each such court in any such action or proceeding and waives any objection it may now or hereafter have to venue or convenience of forum.
6. Modification of Agreement and Waiver. This Agreement may not be amended except by a writing executed by the Parties. Failure of a Party to enforce one or more of the provisions of this Agreement or to exercise any option or other rights hereunder or to require at any time performance or any of the obligations hereof will not be construed to be a waiver of such provisions by such Party nor to, in any way, affect the validity of this Agreement or such Party's right thereafter to enforce each and every provision of this Agreement, nor to preclude such Party from taking any other action at any time which it would legally be entitled to take.
7. Entire Agreement. This Agreement represents the entire agreement of the Parties relating to the matters described in this Agreement, and no prior representations or agreements, whether written or oral, will be binding on any Party unless incorporated into this Agreement or agreed to by such Party in a writing signed by such Party on or after the Effective Date.

[Signature page follows.]

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

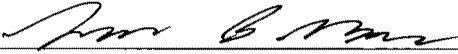
**ASSIGNOR:**

**NOV INTERNATIONAL HOLDINGS C.V.**  
BY: NOV International Holdings GP LLC, its General  
Partner

By:   
Name: Trevor B. Martin  
Title: Manager

**ASSIGNEE:**

**GRANT PRIDECO, INC.**

By:   
Name: Trevor B. Martin  
Title: Vice President

**EXHIBIT A  
ASSIGNED MARKS**

**[See attached.]**

Trademark	Country/Jurisdiction	Trademark App. No.	Registration Date	Trademark Reg. No.	Classes	Assignee	Data Source
WEBDriller	Norway	200202359	Oct-31-2002	216347	9,42	National Oilwell Varco Norway AS	Harmso
STARRACKER (DESIGN)	Norway	200202372	Nov-14-2002	216524	7	National Oilwell Varco Norway AS	Conley Rose
AHD (WORD)	Norway	200202579	Oct-10-2002	216045	7	National Oilwell Varco Norway AS	Conley Rose
SAFETYBRICK (WORD)	Norway	200202580	Oct-17-2002	216123	9,17,27	National Oilwell Varco Norway AS	Conley Rose
CYBERBASE (WORD)	United States of America	75/537,514	May-21-2002	2571765	9,16	National Oilwell Varco Norway AS	Conley Rose
CYBERMINI	Norway	20114003	Apr-18-2002	214106	9	National Oilwell Varco Norway AS	Conley Rose
DRILLTRONICS (WORD)	Norway	200306475	Jan-08-2004	222372	9,41,42	National Oilwell Varco Norway AS	Conley Rose
HITEC (WORD)	Norway	200401887	Jun-22-2010	256005	6,9	National Oilwell Varco Norway AS	Conley Rose
MMC - MULTI MACHINE CONTRAOL (WORD)	Norway	201009099	Feb-18-2011	258741	9	National Oilwell Varco Norway AS	Conley Rose
PIM - PIPE INTERLOCK MANAGEMENT (WORD)	Norway	201009098	Feb-25-2011	258883	9	National Oilwell Varco Norway AS	Conley Rose
CYBERBASE	United States of America	75/537,514	May-21-2002	2571765	9	National Oilwell Varco Norway AS	Conley Rose
SDI (WORD)	United States of America	75/537,515	May-30-2000	2353234	9,16	National Oilwell Varco Norway AS	Conley Rose



Trademark	Country/Jurisdiction	Trademark App. No.	Registration Date	Trademark Reg. No.	Classes	Assignee
SAL	United Kingdom	UK00002114238	9/19/1997	UK00002114238	06; 07	APL Norway AS
APL	United Kingdom	UK00002000627	1/5/1996	UK00002000627	07	APL Norway AS
STL	United Kingdom	UK00002000620	2/2/1996	UK00002000620	07	APL Norway AS
STP	United Kingdom	UK00002000623	1/5/1996	UK00002000623	07; 12	APL Norway AS
APL	Ireland		7/1/1996	201127	40	APL Norway AS
APL	Ireland		11/1/1995	174298	07	APL Norway AS
STP	Ireland		8/15/1996	202137	07; 39	APL Norway AS



MONDELO	India	2350247	Aug-09-2018	9	NOV Process & Flow Technologies UK Limited
MUTRATOR	United Kingdom	845927	Mar-01-1963	7	NOV Process & Flow Technologies UK Limited
MONO (Stylized)	Spain	M0202904	Sep-15-1948		NOV Process & Flow Technologies UK Limited
DISCREEN	United Kingdom	1425732	Jan-26-1991		NOV Process & Flow Technologies UK Limited
DURACORT	European Union	1438282	Jan-30-2001	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	United Kingdom	2275154	Dec-28-2001	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	International	2606739	May-11-2012		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Australia	1142882	Jan-10-2013		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	United Kingdom	1142883	May-15-2013		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	European Union	1142882	Jul-06-2012	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Japan	1142882	May-02-2014	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	United States of America	791123,227	Dec-09-2013	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Argentina	3165723	Oct-07-2013		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Brazil	840137,23	Dec-29-2015		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Canada	1,572,018	Apr-22-2014		NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	Australia	754005	Mar-26-1999	7,11	NOV Process & Flow Technologies UK Limited
FLEXISHAFT	European Union	784397	May-29-2000		NOV Process & Flow Technologies UK Limited
FLEXISHAFT	Japan	1059598	Mar-03-2000	7	NOV Process & Flow Technologies UK Limited
FLEXISHAFT (in Katakana)	New Zealand	2000-126704	Dec-21-2001		NOV Process & Flow Technologies UK Limited
FLEXISHAFT	United Kingdom	306414	Aug-18-2000		NOV Process & Flow Technologies UK Limited
FLEXISHAFT and Design	European Union	2105722	Aug-22-1997	7	NOV Process & Flow Technologies UK Limited
FLEXISHAFT and Design	Australia	794006	Oct-25-1999		NOV Process & Flow Technologies UK Limited
INVZIQ	New Zealand	35414	Aug-18-2000		NOV Process & Flow Technologies UK Limited
INVZIQ	United Kingdom	35414	Aug-18-2000	7,9,37	NOV Process & Flow Technologies UK Limited
INVZIQ	International	35414	Aug-18-2000	7,9,37	NOV Process & Flow Technologies UK Limited
INVZIQ	Australia	1180988	Feb-15-2013	7,9,37	NOV Process & Flow Technologies UK Limited
INVZIQ	China	1180988	Jan-31-2014	7,9,37	NOV Process & Flow Technologies UK Limited
INVZIQ	European Union	1180988	Sep-26-2014	7,9,37	NOV Process & Flow Technologies UK Limited
INVZIQ	New Zealand	1180988	Feb-28-2014	7,9,37	NOV Process & Flow Technologies UK Limited
MUNCHER	China	200117940	Dec-14-2002		NOV Process & Flow Technologies UK Limited
MUNCHER	European Union	001438,25	Sep-30-2002	7	NOV Process & Flow Technologies UK Limited
MUNCHER (Stylized)	European Union	2264703	Sep-03-2002	7	NOV Process & Flow Technologies UK Limited
MONO	Brazil	816544956	Nov-11-1994		NOV Process & Flow Technologies UK Limited
MONO	European Union	3732355	Jan-07-2005	7,35,37,42	NOV Process & Flow Technologies UK Limited
DISCREEN	United Kingdom	1438282	Jan-30-2001	7	NOV Process & Flow Technologies UK Limited
ESTRIP (word)	United States of America	881450,826	May-12-2020		NOV Process & Flow Technologies UK Limited
ESTRIP (word)	Australia	2037755	Apr-06-2020	7	NOV Process & Flow Technologies UK Limited
ESTRIP (word)	European Union	018111080	Jan-09-2020	7	NOV Process & Flow Technologies UK Limited
ESTRIP (word)	United Kingdom	UK00039422917	Nov-15-2019	7	NOV Process & Flow Technologies UK Limited
ESTRIP (word)	United States of America	8165738	Sep-08-2020	7	NOV Process & Flow Technologies UK Limited
AXELSON	United States of America	20248372			NOV Process & Flow Technologies UK Limited
AXELSON	United Kingdom	1W02033484873	Aug-11-2020	7	NOV Process & Flow Technologies UK Limited
AXELSON	Mexico	2352704	Feb-19-2021		NOV Process & Flow Technologies UK Limited
AXELSON	Saudi Arabia	227553	Aug-26-2020	7	NOV Process & Flow Technologies UK Limited
ESTRIP (Stylized and in Color)	United Kingdom	1142882	Jul-06-2012	7	NOV Process & Flow Technologies UK Limited
MONO FLEXISHAFT PUMPS and Design	United Kingdom	784421	Oct-26-1999		NOV Process & Flow Technologies UK Limited
INVZIQ	United Kingdom	1180988	Sep-09-2014	7,9,37	NOV Process & Flow Technologies UK Limited
MUNCHER	United Kingdom	001438,25	Sep-30-2002	7	NOV Process & Flow Technologies UK Limited
MONO	United Kingdom	2264703	Sep-03-2002	7	NOV Process & Flow Technologies UK Limited
FLEXISHAFT	United Kingdom	3732355	Jan-07-2005	7	NOV Process & Flow Technologies UK Limited
MONO	United Kingdom	784397	May-29-2000	7,35,37,42	NOV Process & Flow Technologies UK Limited
MONO	Australia	769446	Mar-15-1999	7	NOV Process & Flow Technologies UK Limited

Trademark	Country	Application No.	Application Date	Registration No.	Registration Date	Assignee
BIOSAFE	European Union	008 976 383	3/23/2010	008 976 383	2/7/2011	Pipex Ltd
BIOSAFE	United Kingdom	2 542 764	3/23/2010	2 542 764	7/9/2010	Pipex Ltd
BIOSAFE	United Kingdom	008 976 383	3/23/2010	UK009008976383	2/7/2011	Pipex Ltd
CHEMSAFE	European Union	008 976 334	3/23/2010	008 976 334	2/3/2011	Pipex Ltd
CHEMSAFE	United Kingdom	2 542 866	3/23/2010	2 542 866	7/9/2010	Pipex Ltd
CHEMSAFE	United Kingdom	008 976 334	3/23/2010	UK009008976334	2/3/2011	Pipex Ltd
MARRS	European Union	008 975 931	3/23/2010	008 975 931	9/14/2010	Pipex Ltd
MARRS	United Kingdom	2 542 880	3/23/2010	2 542 880	7/30/2010	Pipex Ltd
MARRS	United Kingdom	008 975 931	3/23/2010	UK009008975931	9/14/2010	Pipex Ltd
PIPEX PX	European Union	009 381 294	9/16/2010	009 381 294	8/2/2012	Pipex Ltd
PIPEX PX	United Kingdom	2 554 883	8/3/2010	2 554 883	2/25/2011	Pipex Ltd
PIPEX PX	United Kingdom	009 381 294	9/16/2010	UK009009381294	8/2/2012	Pipex Ltd
COCOON & SHROUD	Norway	201202506	3/6/2012	266883	8/29/2012	Pipex Ltd
PIPEX	United Kingdom	1 242 180	5/17/1985	1 242 180	9/8/1989	Pipex Ltd

**Data Source**  
Onsagers

**Applicant/Proprietor**  
NOV Process & Flow Technologies UK Limited

**Classes**  
07, 12

**Registration No.**  
36756

**Application No.**  
43635

**Application Date**  
2/27/1948

**Country**  
Norway

**Trademark**  
MONO

**EXHIBIT B**  
**ASSIGNED PATENTS**

**[See attached.]**

Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Assignee	Expiration Date
Electronic ID tag and co-operating antenna	Canada	2,587,147		2,587,147	Tuboscope Norge AS	October 10, 2025
A piping body having an RFID tag	Canada	2,961,182			Tuboscope Norge AS	September 30, 2035
System and method of configuring control instructions for a tool assembly by means of machine readable component information	China	201380030801.6	104364466	ZL201380030801.6	Tuboscope Norge AS	November 18, 2033
System and method of configuring control instructions for a tool assembly by means of machine readable component information	Europe	13857533	2923037		Tuboscope Norge AS	November 18, 2033
A piping body having an RFID tag	Europe	15849247.0	3204590	3204590	Tuboscope Norge AS	September 30, 2035
Electronic ID tag and co-operating antenna	Great Britain	0708931.1		2441185	Tuboscope Norge AS	October 10, 2025
A piping body having an RFID tag	Great Britain	15849247.0		3204590	Tuboscope Norge AS	September 30, 2035
A piping body having an rfid tag.	Mexico	MX2017004504	MX2017004504	385841	Tuboscope Norge AS	September 30, 2035
A piping body having an RFID tag	Netherlands	15849247.0		3204590	Tuboscope Norge AS	September 30, 2035
Electronic ID tag and co-operating antenna	Norway	20054257		330526	Tuboscope Norge AS	September 15, 2025
System and method of configuring control instructions for a tool assembly by means of machine readable component information	Norway	20121409		335802	Tuboscope Norge AS	November 23, 2032
A piping body having an RFID tag	Norway	15849247.0		3204590	Tuboscope Norge AS	September 30, 2035
readable component information	Russia	2017114387	2017114387	2724855	Tuboscope Norge AS	September 30, 2035
A piping body having an RFID tag	Saudi Arabia	517381107			Tuboscope Norge AS	September 30, 2035
A piping body having an RFID tag	United States	11/665,402	20080165011	7,688,210	Tuboscope Norge AS	August 3, 2026
Electronic ID tag and co-operating antenna	United States	15/509,819	20170306705	10,227,829	Tuboscope Norge AS	September 30, 2035
A piping body having an RFID tag	United States	16/257,152	20190153787	10,619,423	Tuboscope Norge AS	September 30, 2035
APPARATUS FOR PROVIDING DIRECTIONAL CONTROL OF BORE DRILLING EQUIPMENT	United States	16/069,701		11,002,078	Tuboscope Norge AS	November 6, 2036

Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Assignee	Source of Data	Expiration Date
Method for reducing dynamic loads of cranes	Australia	AU2011230055A		AU2011230055	National Oilwell Varco Norway AS	Innography	2031-03-17
A die holder device for oilfield use and method for utilizing the same	Australia	AU2013266095A		AU2013266095	National Oilwell Varco Norway AS	Innography	2033-05-29
Drilling rig	Australia	AU2015344830A		AU2015344830	National Oilwell Varco Norway AS	Innography	2035-11-13
Offshore lifting crane	Australia	AU2016241094A		AU2016241094	National Oilwell Varco Norway AS	Innography	2036-03-16
Bearing arrangement	Australia	AU2016291090A		AU2016291090	National Oilwell Varco Norway AS	Innography	2036-07-06
In-line spooling device for compensating fleet angle	Australia	AU2017273245A		AU2017273245	National Oilwell Varco Norway AS	Innography	2037-05-24
Method of upgrading a knuckle-boom crane and a heave-compensating crane	Australia	AU2017353114A		AU2017353114	National Oilwell Varco Norway AS	Innography	2037-09-06
Fibre rope and hoisting system including such a fibre rope	Australia	AU2017330162A		AU2017330162	National Oilwell Varco Norway AS	Innography	2037-09-26
Drilling system for rock drilling	Australia	AU2018291478A		AU2018291478	National Oilwell Varco Norway AS	Innography	2038-06-15
Electrohydraulic device, method, and marine vessel or platform	Australia	AU201829413A		AU201829413	National Oilwell Varco Norway AS	Innography	2038-09-07
System and method for improved heave compensation	Australia	AU2020201901A	AU2020201901		National Oilwell Varco Norway AS	Innography	2040-03-16
Centralizing device for an elongated body in a mouse hole machine	Brazil	PI0717021-1	PI0717021-1	PI0717021-1	National Oilwell Norway AS	Hamsco	2027-12-19
Riser tensioner	Brazil	BR112012005898-3	BR112012005898-3	BR112012005898-3	National Oilwell Norway AS	Hamsco	2031-05-25
Offset compensation system	Brazil	BR112013011835A		BR112013011835	National Oilwell Varco Norway AS	Innography	2026-10-11
Rack unit, method for constructing a pipe segment, and system for storing one or more tubulars	Brazil	BR112013010737A		BR112013010737	National Oilwell Varco Norway AS	Innography	2026-11-02
Lifting tool for opposite twisting of generally submerged cables	Brazil	BR112013010848A	BR112013010848		National Oilwell Varco Norway AS	Innography	2026-11-02
Clamping system for making and breaking bolted connections, actuator for operating a clamping assembly, and clamping assembly for securing and rotating a pipe	Brazil	BR112014007449A		BR112014007449	National Oilwell Varco Norway AS	Innography	2027-08-29
Torque device for use in the oilfield and method of operation for it	Brazil	BR112014005432A		BR112014005432	National Oilwell Varco Norway AS	Innography	2027-09-05
Method and apparatus for real-time fluid compressibility measurements	Brazil	BR112015031215A	BR112015031215		National Oilwell Varco Norway AS	Innography	2028-06-19
Device for a hydraulic switch	Brazil	BRP0819348A		BRP0819348	National Oilwell Varco Norway AS	Innography	2028-10-30
Hydraulic locking device	Brazil	BRP0915190A		BRP0915190	National Oilwell Varco Norway AS	Innography	2029-06-15
System for lifting a load on an offshore platform	Brazil	BR112015032058A	BR112015032058		National Oilwell Varco Norway AS	Innography	2029-06-25
System and method for optimal routing of chemicals in an installation	Brazil	BR112016005107A	BR112016005107		National Oilwell Varco Norway AS	Innography	2029-09-23
Mouse hole damper device	Brazil	BRP0919956A		BRP0919956	National Oilwell Varco Norway AS	Innography	2029-10-26
Winch drum with internal wire storage	Brazil	BR112017014113A	BR112017014113		National Oilwell Varco Norway AS	Innography	2030-01-22
System for moving items on a platform floor, method for configuring items on a platform floor, platform floor, platform floor cart, and drilling rig	Brazil	BR112017008866A		BR112017008866	National Oilwell Varco Norway AS	Innography	2030-09-22
System and method for placing and removing pipe from a shelf of a drilling rig, drilling rig, and system for monitoring the condition of couplings in a plurality of couplings in a bar-type bracket of a drilling rig	Brazil	BR112017009746A	BR112017009746		National Oilwell Varco Norway AS	Innography	2030-11-13



System for operating a drilling rig, collision and accident mitigation systems on a drilling rig, and system for monitoring the conservation condition of a drilling rig tool	Brazil	BR112017010027A	BR112017010027Z	National Oilwell Varco Norway AS	Innography	2030-11-13
Method for treating pipe column sections and recess for pipe column	Brazil	BR112012024547A	BR112012024547	National Oilwell Varco Norway AS	Innography	2031-03-25
Drilling winch and method to operate the same	Brazil	BR102016006722A	BR102016006722	National Oilwell Varco Norway AS	Innography	2031-03-28
Method for recovering hydraulic energy from an actuator during partial load conditions and apparatus for recovering hydraulic energy from an actuator	Brazil	BR112012024931A	BR112012024931	National Oilwell Varco Norway AS	Innography	2031-05-18
Hydraulic drive control improvements	Brazil	BR112017025949A	BR112017025949	National Oilwell Varco Norway AS	Innography	2031-06-08
Bearing arrangement	Brazil	BR112017028258A	BR112017028258	National Oilwell Varco Norway AS	Innography	2031-07-06
Offset compensation system for a marine vessel and method for operating the same	Brazil	BR112013011835A	BR112013011835	National Oilwell Varco Norway AS	Innography	2031-10-11
Rack unit, method for building a pipe segment, and system for storing one or more tubulars	Brazil	BR112013010737A	BR112013010737	National Oilwell Varco Norway AS	Innography	2031-11-02
Wire return voltage device	Brazil	BR112018013281A	BR112018013281	National Oilwell Varco Norway AS	Innography	2032-01-04
Inline winding device for fleet angle compensation	Brazil	BR112018074474A	BR112018074474	National Oilwell Varco Norway AS	Innography	2032-05-24
Tightening system for making and breaking threaded connections	Brazil	BR112014007449A	BR112014007449	National Oilwell Varco Norway AS	Innography	2032-08-29
Method for upgrading an articulated crane and a hoist compensation crane	Brazil	BR112019008129A	BR112019008129	National Oilwell Varco Norway AS	Innography	2032-09-06
Fiber cable and hoisting system including such fiber cable	Brazil	BR112019005710A	BR112019005710	National Oilwell Varco Norway AS	Innography	2032-09-26
Matrix support device for use in oilfield, and method for using a matrix support device	Brazil	BR112014024932A	BR112014024932	National Oilwell Varco Norway AS	Innography	2033-05-29
Device for water processing, system and methods	Brazil	BR112020017533A	BR112020017533	National Oilwell Varco Norway AS	Innography	2034-03-28
ELEVATOR FOR HEAVY LOAD PIPE LIFTING, PIPE FOR SUCH ELEVATOR AND PIPE HANDLER ASSEMBLY COMPRISING SUCH ELEVATOR	Brazil			National Oilwell Varco Norway AS	Hamsco	
Centralizing device for an elongated body in a mouse hole machine	Canada	2663894	2,663,894	National Oilwell Norway AS	Hamsco	2027-08-24
A collector device for drilling fluid	Canada	2691315	2,691,315	National Oilwell Norway AS	Hamsco	2028-06-11
Hydraulic clamping device	Canada	CA2726637A	CA2726637	National Oilwell Varco Norway AS	Innography	2029-06-15
Mouse hole damper device	Canada	CA2742250A	CA2742250	National Oilwell Varco Norway AS	Innography	2029-10-26
Method and device for treatment of a pipestring section that is positioned in a set-back	Canada	CA2794833A	CA2794833	National Oilwell Varco Norway AS	Innography	2031-03-25
An apparatus and method for recuperation of hydraulic energy	Canada	CA2799104A	CA2799104	National Oilwell Varco Norway AS	Innography	2031-05-18
Lifting tool for opposing twisting of generally submerged ropes	Canada	CA2815015A	CA2815015	National Oilwell Varco Norway AS	Innography	2031-11-02
Method for detection and localization of a fluid leak related to a piston machine	Canada	CA2816485A	CA2816485	National Oilwell Varco Norway AS	Innography	2031-11-18
Method and device for preventing a mud relief valve from incorrect opening	Canada	CA2829779A	CA2829779	National Oilwell Varco Norway AS	Innography	2032-03-27
A torque device for oil field use and method of operation for same	Canada	CA2847832A	CA2847832	National Oilwell Varco Norway AS	Innography	2032-09-05

Simultaneous clamp and torque drive	Canada	CA2850005A	CA2850005	National Oilwell Varco Norway AS	Innography	2032-09-28
Simultaneous clamp and torque drive	Canada	CA2926122A	CA2926122	National Oilwell Varco Norway AS	Innography	2032-09-28
Method for reducing drillstring oscillations	Canada	CA2861990A	CA2861990	National Oilwell Varco Norway AS	Innography	2033-01-17
Coupler device and method for using the same	Canada	CA2911501A	CA2911501	National Oilwell Varco Norway AS	Innography	2033-05-22
A die holder device for oilfield use and method for utilizing the same	Canada	CA2874123A	CA2874123	National Oilwell Varco Norway AS	Innography	2033-05-29
Method and apparatus for real-time fluid compressibility measurements	Canada	CA2916067A	CA2916067	National Oilwell Varco Norway AS	Innography	2033-06-19
Method and device for estimating downhole string variables	Canada	CA2950884A	CA2950884	National Oilwell Varco Norway AS	Innography	2034-06-05
System for hoisting a load on an offshore rig	Canada	CA2916066A	CA2916066	National Oilwell Varco Norway AS	Innography	2034-06-25
System and method for optimally routing chemicals in a plant	Canada	CA2923161A	CA2923161	National Oilwell Varco Norway AS	Innography	2034-09-23
Improved control of wellbore trajectories	Canada	CA2937875A	CA2937875	National Oilwell Varco Norway AS	Innography	2035-01-27
Rig floor for a drilling rig	Canada	CA2965750A	CA2965750	National Oilwell Varco Norway AS	Innography	2035-09-22
A method for placing and removing pipe from a finger rack	Canada	CA2966297A	CA2966297	National Oilwell Varco Norway AS	Innography	2035-11-13
Drilling rig	Canada	CA2967735A	CA2967735	National Oilwell Varco Norway AS	Innography	2035-11-13
Draw-works and method for operating the same	Canada	CA2922673A	CA2922673	National Oilwell Varco Norway AS	Innography	2036-03-03
System and method for calibration of hydraulic models by surface string weight	Canada	CA3083257A	CA3083257	National Oilwell Varco Norway AS	Innography	2038-11-27
A rope connector for connecting prepared ends of two rope segments, a rope extension system and a hoisting system comprising such rope connector	Canada	CA3124071A	CA3124071	National Oilwell Varco Norway AS	Innography	2039-12-11
Fibre rope and hoisting system including such a fibre rope	China	201780059211.4	ZL 201780059211.4	National Oilwell Varco Norway AS	Hanso	2037-09-25
Torquer and the operational approach of this torquer for oil field	China	CN201280043914A	CN103842610	National Oil Well Varco Norway AS	Innography	2032-09-04
Method for placing and removing pipe to and from a fingerboard	China	CN201580061484A	CN107109910	National Oilwell Varco Norway AS	Innography	2035-11-12
Coaxial winding device for compensating off-angle	China	CN201780034258A	CN109311644	National Oilwell Varco Norway AS	Innography	2037-05-23
Method for building an offshore windmill	China	CN201780054004A	CN109690073	National Oilwell Varco Norway AS	Innography	2037-08-21
An apparatus for positioning an elongate element in an torque device and a method for operating same	Denmark	DKP201001097A	2755784	National Oilwell Varco Norway AS	Hanso	2032-09-05
Hydraulic clamping device	Denmark	DK117932	DK179032	National Oilwell Varco Norway AS	Innography	2030-12-03
Bore system and device for assembly and removal backs	Denmark	DK11787961T	DK2655766	National Oilwell Varco Norway AS	Innography	2031-11-02
Trey holder system for a clamp tray and method for operating the same	Denmark	DK12767123T	DK2753783	National Oilwell Varco Norway AS	Innography	2032-09-05
Torque encoder for use in oil fields as well as method for operating the same	Denmark	DK12767126T	DK2753785	National Oilwell Varco Norway AS	Innography	2032-09-05
Offshore lifting crane	Denmark	DK15161240T	DK3072844	National Oilwell Varco Norway AS	Innography	2035-03-27
Rig floor for a drill rig	Denmark	DK15774962T	DK3212878	National Oilwell Varco Norway AS	Innography	2035-09-22
Electrode assembly, system and method for inactivating organic material in a flow of water	Denmark	DK17168711T	DK3395768	National Oilwell Varco Norway AS	Innography	2037-04-28
Procedure for building an offshore wind turbine	Denmark	DK17757518T	DK3507490	National Oilwell Varco Norway AS	Innography	2037-08-22

An apparatus for positioning an elongate element in a torque device and a method for operating same	Europe	EP12767125A	EP2753784	National Oilwell Varco Norway As	Innography	2032-09-05
Winch drum with internal wire storage	Europe	EP15704106A	EP3247667	National Oilwell Varco Norway As	Innography	2035-01-22
Method of building an offshore windmill	Europe	EP17757518A	EP3507490	National Oilwell Varco Norway As	Innography	2037-08-22
Centralizing device for an elongated body in a mouse hole machine	Europe	EP07808613A	EP2064408	National Oilwell Varco Norway As	Innography	2027-08-24
Method and device for chain wheel change	Europe	EP09735113A	EP2265539	National Oilwell Varco Norway As	Innography	2029-04-16
Method for reducing dynamic loads of cranes	Europe	EP11759768A	EP2550226	National Oilwell Varco Norway As	Innography	2031-03-17
Method and device for treatment of a pipestring section that is positioned in a set-back	Europe	EP11763100A	EP2553207	National Oilwell Varco Norway As	Innography	2031-03-25
A capture basket system for an underdeck pipelhandling machine	Europe	EP11832813A	EP2627861	National Oilwell Varco Norway As	Innography	2031-10-11
A heave compensating system	Europe	EP11779312A	EP2640657	National Oilwell Varco Norway As	Innography	2031-10-11
Lifting tool for opposing twisting of generally submerged ropes	Europe	EP11838293A	EP2635517	National Oilwell Varco Norway As	Innography	2031-11-02
A drilling system and a device for assembling and disassembling pipe stands	Europe	EP11787961A	EP2635766	National Oilwell Varco Norway As	Innography	2031-11-02
Method for detection and localization of a fluid leak related to a piston machine	Europe	EP11849300A	EP2643673	National Oilwell Varco Norway As	Innography	2031-11-18
Method for detection and localization of a fluid leak related to a piston machine	Europe	EP11849300A	EP2643673	National Oilwell Varco Norway As	Innography	2031-11-18
Method and device for preventing a mud relief valve from incorrect opening	Europe	EP1271964A	EP2691594	National Oilwell Varco Norway As	Innography	2032-03-27
An apparatus for positioning of a clamp body and a method for operating a clamp body	Europe	EP12767119A	EP2753781	National Oilwell Varco Norway As	Innography	2032-09-05
Guide system and method for operation of same	Europe	EP12767121A	EP2753782	National Oilwell Varco Norway As	Innography	2032-09-05
A die retainer system for a clamp die and method of operation of same	Europe	EP12767123A	EP2753783	National Oilwell Varco Norway As	Innography	2032-09-05
A torque device for oil field use and method of operation for same	Europe	EP12767126A	EP2753785	National Oilwell Varco Norway As	Innography	2032-09-05
Control equipment for a torque device for oil field use and method for operation of same	Europe	EP12775851A	EP2753786	National Oilwell Varco Norway As	Innography	2032-09-05
Simultaneous clamp and torque drive	Europe	EP12778547A	EP2761121	National Oilwell Varco Norway As	Innography	2032-09-28
Simultaneous clamp and torque drive	Europe	EP12778547A	EP2761121	National Oilwell Varco Norway As	Innography	2032-09-28
Method for reducing drillstring oscillations	Europe	EP13740504A	EP2807332	National Oilwell Varco Norway As	Innography	2033-01-17
Coupler device and its use procedure	Europe	ES13885009T	ES3680924	National Oilwell Varco Norway As	Innography	2033-05-22
Method and device for estimating downhole string variables	Europe	EP14894153A	EP3152393	National Oilwell Varco Norway As	Innography	2034-06-05
System for hoisting a load on an offshore rig	Europe	EP14817194A	EP3014047	National Oilwell Varco Norway As	Innography	2034-06-25
System and method for optimally routing chemicals in a plant	Europe	EP14799563A	EP3049609	National Oilwell Varco Norway As	Innography	2034-09-23
Pipe storage and handling	Europe	EP14825196A	EP3234300	National Oilwell Varco Norway As	Innography	2034-12-17
System for hoisting a load on an offshore drilling rig	Europe	EP14828366A	EP3237718	National Oilwell Varco Norway As	Innography	2034-12-23
Improved control of well bore trajectories	Europe	EP15704107A	EP3099883	National Oilwell Varco Norway As	Innography	2035-01-27

Offshore lifting crane	Europe	EP15161240A	EP3072844	National Oilwell Varco Norway As	Innography	2035-03-27
Draw-works and method for operating the same	Europe	EP15161583A	EP3075946	National Oilwell Varco Norway As	Innography	2035-03-30
Improvements relating to storage in tanks	Europe	EP15163431A	EP3081475	National Oilwell Varco Norway As	Innography	2035-04-13
Improvements in the control of hydraulic actuators	Europe	EP15171831A	EP3104022	National Oilwell Varco Norway As	Innography	2035-06-12
Rig floor for a drilling rig	Europe	EP15774962A	EP3212878	National Oilwell Varco Norway As	Innography	2035-09-22
Drilling rig	Europe	EP15797167A	EP3218562	National Oilwell Varco Norway As	Innography	2035-11-13
A method for placing and removing pipe from a finger rack	Europe	EP15797161A	EP3218568	National Oilwell Varco Norway As	Innography	2035-11-13
Hoisting system and method for operating the same	Europe	EP16157498A	EP3211175	National Oilwell Varco Norway As	Innography	2036-02-26
In-line spooling device for compensating fleet angle	Europe	EP16172667A	EP3252000	National Oilwell Varco Norway As	Innography	2036-06-02
Jack-up rig for performing multiple independent operations simultaneously	Europe	EP16176113A	EP3260648	National Oilwell Varco Norway As	Innography	2036-06-24
Bearing arrangement	Europe	EP16821712A	EP3319871	National Oilwell Varco Norway As	Innography	2036-07-06
Fibre rope, hoisting system with such a fibre rope, and method for operating said hoisting system	Europe	EP16190590A	EP3299331	National Oilwell Varco Norway As	Innography	2036-09-26
System arranged on a marine vessel or platform, such as for providing heave compensation and hoisting	Europe	EP16192011A	EP3301062	National Oilwell Varco Norway As	Innography	2036-10-03
Method of upgrading a knuckle-boom crane and a heave-compensating crane	Europe	EP16197082A	EP3318530	National Oilwell Varco Norway As	Innography	2036-11-03
Wire back tension device	Europe	EP1736177A	EP3400191	National Oilwell Varco Norway As	Innography	2037-01-04
Drilling unit comprising an electric heave-compensation system	Europe	EP17156406A	EP3369389	National Oilwell Varco Norway As	Innography	2037-02-16
System for energy regeneration and distribution	Europe	EP17753554A	EP3416885	National Oilwell Varco Norway As	Innography	2037-02-17
Electrode assembly, system and method for inactivating organic material in a flow of water	Europe	EP17168711A	EP3395768	National Oilwell Varco Norway As	Innography	2037-04-28
Electrode assembly, system and method for inactivating organic material in a flow of water	Europe	EP17168711A	EP3395768	National Oilwell Varco Norway As	Innography	2037-04-28
Drilling system and method	Europe	EP17178425A	EP3421711	National Oilwell Varco Norway As	Innography	2037-06-28
Drilling system for rock drilling	Europe	EP17178322A	EP3421712	National Oilwell Varco Norway As	Innography	2037-06-28
Crane, marine vessel or rig, and method	Europe	EP17188808A	EP3450676	National Oilwell Varco Norway As	Innography	2037-08-31
Electrohydraulic device, method, and marine vessel or platform	Europe	EP17190129A	EP3453893	National Oilwell Varco Norway As	Innography	2037-09-08
Apparatus for supporting a flywheel on a floating vessel and methods thereof	Europe	EP17209919A	EP3501968	National Oilwell Varco Norway As	Innography	2037-12-22
Device adapted to be run on a tubing string into a wellbore	Europe	EP18157788A	EP3530873	National Oilwell Varco Norway As	Innography	2038-02-21
Device for processing water and methods	Europe	EP18164582A	EP3546057	National Oilwell Varco Norway As	Innography	2038-03-28
Electrode assembly and method for inactivating organic material in a flow of water	Europe	EP18200457A	EP3640217	National Oilwell Varco Norway As	Innography	2038-10-15
A rope connector for connecting prepared ends of two rope segments, a rope extension system and a hoisting system comprising such rope connector	Europe	EP18214573A	EP3670961	National Oilwell Varco Norway As	Innography	2038-12-20
System and method for improved heave compensation	Europe	EP19166745A	EP3719248	National Oilwell Varco Norway As	Innography	2039-04-02
Tool, installation assembly, and method	Europe	EP19721398A	EP3781809	National Oilwell Varco Norway As	Innography	2039-04-12

A method for installing an offshore wind turbine and a substructure for an offshore wind turbine	Europe	EP19798418A	<u>EP26857062</u>	National Oilwell Varco Norway AS	Innography	2039-09-24
An apparatus for coupling and decoupling a connector head to and from an end of a wired drill pipe	Europe	EP19203843A	<u>EP3808932</u>	National Oilwell Varco Norway AS	Innography	2039-10-17
Hoisting system and method for hoisting a vertically-suspended object	Europe	EP20153151A	<u>EP3854746</u>	National Oilwell Varco Norway AS	Innography	2040-01-22
Processing seawater subsea device configured to control flow, e.g. in a subsea water processing system	Europe	EP20169411A	<u>EP3896250</u>	National Oilwell Varco Norway AS	Innography	2040-04-14
ELEVATOR FOR HEAVY LOAD PIPE LIFTING; PIPE FOR SUCH ELEVATOR AND PIPE HANDLER ASSEMBLY COMPRISING SUCH ELEVATOR	Europe	EP20174203A	<u>EP3910217</u>	National Oilwell Varco Norway AS	Innography	2040-05-12
Liner hanger running tool	Europe	21158969.2		National Oilwell Varco Norway AS	Hamsco	
End effector for gripping and spinning pipes	Europe	21176610		National Oilwell Varco Norway AS	Hamsco	
MULTIWINCH HOISTING SYSTEM AND METHOD FOR COMBINING MULTIPLE WINCHES IN A HOISTING SYSTEM	Europe	21215109.6		National Oilwell Varco Norway AS	Hamsco	
Cathode coating for an electrochemical cell	Europe			National Oilwell Varco Norway AS	Hamsco	
A die retainer system for a clamp die and method of operation of same	France		2753783	National Oilwell Varco Norway AS	Hamsco	2032-09-05
A torque device for oil field use and method of operation for same	Germany		602012004020.3	National Oilwell Varco Norway AS	Hamsco	2032-09-05
A die retainer system for a clamp die and method of operation of same	Germany		602012014728.8	National Oilwell Varco Norway AS	Hamsco	2032-09-05
An apparatus for positioning an elongate element in an torque device and a method for operating same	Germany		602012018 688.2	National Oilwell Varco Norway AS	Hamsco	2032-09-05
Method of building an offshore windmill	Germany	17757518.0		National Oilwell Varco Norway AS	Hamsco	2037-08-22
A die retainer system for a clamp die and method of operation of same	Italy		2753783	National Oilwell Varco Norway AS	Hamsco	2032-09-05
An apparatus for positioning an elongate element in an torque device and a method for operating same	Italy		502016000085366	National Oilwell Varco Norway AS	Hamsco	2032-09-05
Offshore wind turbine construction method	Japan		<u>JP2019532220</u>	National Oilwell Varco Norway AS	Innography	2037-08-22
Method and device for hoisting an item by means of a crane	Korea	JP2019533287A	<u>KR101711271</u>	National Oilwell Varco Norway AS	Innography	2030-02-08
An apparatus and method for recuperation of hydraulic energy	Korea	KR20147032553A	<u>KR101874130</u>	National Oilwell Varco Norway AS	Innography	2031-05-18
A capture basket system for an underdeck pipelining machine	Korea	KR20127032636A	<u>KR101697815</u>	National Oilwell Varco Norway AS	Innography	2031-10-11
A heave compensating system	Korea	KR20137011922A	<u>KR101839985</u>	National Oilwell Varco Norway AS	Innography	2031-10-11
A drilling system and a device for assembling and disassembling pipe stands	Korea	KR20137013123A	<u>KR101538003</u>	National Oilwell Varco Norway AS	Innography	2031-11-02
A torque device for oil field use and method of operation for same	Korea	KR20137014143A	<u>KR101907118</u>	National Oilwell Varco Norway AS	Innography	2032-09-05
Simultaneous clamp and torque drive	Korea	KR20147009137A	<u>KR101586720</u>	National Oilwell Varco Norway AS	Innography	2032-09-28

A die holder device for oilfield use and method for utilizing the same	Korea	KR20147032830A	<a href="#">KR102027618</a>	National Oilwell Varco Norway AS	Innography	2033-05-29
System for hoisting a load on an offshore rig	Korea	KR20167001670A	<a href="#">KR102226223</a>	National Oilwell Varco Norway AS	Innography	2034-06-25
Rig floor for a drilling rig	Korea	KR20177014802A	<a href="#">KR20170077218</a>	National Oilwell Varco Norway AS	Innography	2035-09-22
A method for placing and removing pipe from a finger rack	Korea	KR20177016350A	<a href="#">KR20170086575</a>	National Oilwell Varco Norway AS	Innography	2035-11-13
Lifting crane	Korea	KR20177031024A	<a href="#">KR20180011072</a>	National Oilwell Varco Norway AS	Innography	2036-03-16
Draw-works and method for operating the same	Korea	KR20160033402A	<a href="#">KR20160117203</a>	National Oilwell Varco Norway AS	Innography	2036-03-21
Riser tensioner	Mexico	MX/A/2012/003076	336073	National Oilwell Norway AS	Hamsø	2030-09-13
Method and device for lifting of an item from a crane	Mexico	MX/A/2011/008596		National Oilwell Varco Norway AS	Hamsø	2031-08-15
Internal blow out preventer	Mexico	MX/A/2012/008032		National Oilwell Varco Norway AS	Hamsø	2032-07-10
Hydraulic clamping device.	Mexico	MX2010014022A	<a href="#">MX2010014022</a>	National Oilwell Varco Norway AS	Innography	2030-12-16
Method for reducing drillstring oscillations.	Mexico	MX2014008927A	<a href="#">MX354261</a>	National Oilwell Varco Norway AS	Innography	2033-01-17
Method and device for estimating downhole string variables.	Mexico	MX2016015979A	<a href="#">MX2016015979</a>	National Oilwell Varco Norway AS	Innography	2034-06-05
Improved control of well bore trajectories.	Mexico	MX2016009718A	<a href="#">MX2016009718</a>	National Oilwell Varco Norway AS	Innography	2035-01-27
A drawworks device for a drill floor	Netherlands	07747653.9	2029857	National Oilwell Norway AS	Hamsø	2027-06-07
Guide system and method for operation of same	Netherlands		2753782	National Oilwell Varco Norway AS	Hamsø	2032-09-05
A torque device for oil field use and method of operation for same	Netherlands		2753785	National Oilwell Varco Norway AS	Hamsø	2032-09-05
A die retainer system for a clamp die and method of operation of same	Netherlands		2753783	National Oilwell Varco Norway AS	Hamsø	2032-09-05
An apparatus for positioning an elongate element in an torque device and a method for operating same	Netherlands		2753784	National Oilwell Varco Norway AS	Hamsø	2032-09-05
Control equipment for a torque device for oil field use and method for operation of same	Netherlands	12775651.4	2753786	National Oilwell Varco Norway AS	Hamsø	2032-09-05
Winch drum with internal wire storage	Netherlands	15704106.2	3247667	National Oilwell Varco Norway AS	Hamsø	2035-01-22
Method of building an offshore windmill	Netherlands	17757518.0	3507490	National Oilwell Varco Norway AS	Hamsø	2037-08-22
Centralizing device for an elongated body in a mouse hole machine	Netherlands	07808613.9	EP2064408	National Oilwell Varco Norway AS	Hamsø	2027-08-24
Method and device for chain wheel change	Netherlands	09735113.4	2265539	National Oilwell Varco Norway AS	Hamsø	2029-04-16
A capture basket system for an underdeck pipehandling machine	Netherlands	11832813.7	2627861	National Oilwell Varco Norway AS	Hamsø	2031-10-11
System for hoisting a load on an offshore rig	Netherlands	14817194.5	3014047	National Oilwell Varco Norway AS	Hamsø	2034-06-25
Pipe storage and handling	Netherlands	14825196.0	3234300	National Oilwell Varco Norway AS	Hamsø	2034-12-17
Offshore lifting crane	Netherlands	15161240.5	3072844	National Oilwell Varco Norway AS	Hamsø	2035-03-27
In-line spooling device for compensating fleet angle	Netherlands	16172667.4	3252090	National Oilwell Varco Norway AS	Hamsø	2036-06-02
Fibre rope, hoisting system with such a fibre rope, and method for operating said hoisting system	Netherlands	16190590.6	3299331	National Oilwell Varco Norway AS	Hamsø	2036-09-26
System arranged on a marine vessel or platform, such as for providing heave compensation and hoisting	Netherlands		3301062	National Oilwell Varco Norway AS	Hamsø	2036-10-03
Method of upgrading a knuckle-boom crane and a heave-compensating crane	Netherlands	16197082.7	3318530	National Oilwell Varco Norway AS	Hamsø	2036-11-03
Drilling system for rock drilling	Netherlands	17178322.B	3421712	National Oilwell Varco Norway AS	Hamsø	2037-06-28

Crane, marine vessel or rig, and method	Netherlands	17188808.4		3450676	National Oilwell Varco Norway AS	Hamso	2037-08-31
Electrohydraulic device, method, and marine vessel or platform	Netherlands			3453893	National Oilwell Varco Norway AS	Hamso	2037-09-08
Method and device for hoisting an item by means of a crane	Nigeria	NG/C/2011/655	NG/C/2011/655	RP-NG/C/2011/655	National Oilwell Varco Norway AS	Hamso	2031-08-15
A drawworks device on a drill floor	Norway	20062863		326329	National Oilwell Norway AS	Hamso	2026-06-19
Centralizing device for a mouse hole	Norway	20064208		326344	National Oilwell Norway AS	Hamso	2026-09-18
Winch device	Norway	20070817		326256	National Oilwell Norway AS	Hamso	2027-02-14
Mud bucket device	Norway	20073057		326589	National Oilwell Norway AS	Hamso	2027-06-15
A method and a device for hoisting an item	Norway	20073443		330923	National Oilwell Norway AS	Hamso	2027-07-05
Power tong device	Norway	20075521		328860	National Oilwell Varco Norway AS	Hamso	2027-11-01
Remote controllable spherical connection	Norway	20081044		329012	National Oilwell Norway AS	Hamso	2028-02-28
Method and device for testing of tribologic degradation properties of a surface.	Norway	20084289		329070	National Oilwell Norway AS	Hamso	2028-10-14
Riser tensioner	Norway	20093004		331342	National Oilwell Norway AS	Hamso	2029-09-15
An apparatus for positioning of a clamp body and a method for operating a clamp body	Norway	12767119.6		2753781	National Oilwell Varco Norway AS	Hamso	2032-09-05
Guide system and method for operation of same	Norway	12767121.2		2753782	National Oilwell Varco Norway AS	Hamso	2032-09-05
A die retainer system for a clamp die and method of operation of same	Norway	12767123.8		2753783	National Oilwell Varco Norway AS	Hamso	2032-09-05
An apparatus for positioning an elongate element in a torque device and a method for operating same	Norway	12767125.3		2753784	National Oilwell Varco Norway AS	Hamso	2032-09-05
A torque device for oil field use and method of operation for same	Norway	12767126.1		2753785	National Oilwell Varco Norway AS	Hamso	2032-09-05
Control equipment for a torque device for oil field use and method for operation of same	Norway	12775851.4		2753786	National Oilwell Varco Norway AS	Hamso	2032-09-05
Winch drum with internal wire storage	Norway	15704106.2		3247667	National Oilwell Varco Norway AS	Hamso	2035-01-22
Method and device for cable replacement	Norway	NO20081890A		<u>NO332008</u>	National Oilwell Varco Norway AS	Innography	2028-04-21
Hydraulic clamping device	Norway	NO20082732A		<u>NO334547</u>	National Oilwell Varco Norway AS	Innography	2028-06-18
Method and device for lift compensation.	Norway	NO20083596A		<u>NO336258</u>	National Oilwell Varco Norway AS	Innography	2028-08-20
Centering mechanism for rudder	Norway	NO20084174A		<u>NO333200</u>	National Oilwell Varco Norway AS	Innography	2028-10-06
Device for mouse hole muffler	Norway	NO20084569A		<u>NO329955</u>	National Oilwell Varco Norway AS	Innography	2028-10-30
Method and apparatus for hoisting a package from a crane	Norway	NO20090729A		<u>NO333202</u>	National Oilwell Varco Norway AS	Innography	2029-02-16
Device and method for reducing dynamic loads in cranes	Norway	NO20100435A		<u>NO337712</u>	National Oilwell Varco Norway AS	Innography	2030-03-24
Method and apparatus for treating a pipe string section located in an intermediate bearing	Norway	NO20100469A		<u>NO333879</u>	National Oilwell Varco Norway AS	Innography	2030-03-30
Device and method for recovering hydraulic energy	Norway	NO20100738A		<u>NO331866</u>	National Oilwell Varco Norway AS	Innography	2030-05-20
Catch basket system for a bottom deck pipe handling machine	Norway	NO20101410A		<u>NO339295</u>	National Oilwell Varco Norway AS	Innography	2030-10-12
Ceiling tools to counteract the twisting of mainly dived ropes	Norway	NO20101540A		<u>NO332453</u>	National Oilwell Varco Norway AS	Innography	2030-11-03
A method for detecting and locating a fluid leak in connection with a piston machine	Norway	NO20101641A		<u>NO336024</u>	National Oilwell Varco Norway AS	Innography	2030-11-22
Method and system for reducing drill string oscillation	Norway	NO20120075A		<u>NO333959</u>	National Oilwell Varco Norway AS	Innography	2032-01-24
Tray holder and method of using the same	Norway	NO20120632A		<u>NO335656</u>	National Oilwell Varco Norway AS	Innography	2032-05-30

Method and device for estimating downhole string variables	Norway	14884153.7	3152393	National Oilwell Varco Norway AS	Hamso	2034-06-05
System for hoisting a load on an offshore rig	Norway	14817194.5	3014047	National Oilwell Varco Norway AS	Hamso	2034-06-25
Pipe storage and handling	Norway	14825196.0	3234300	National Oilwell Varco Norway AS	Hamso	2034-12-17
Improved Control of Well Bore Trajectories	Norway	15704107.0	3095883	National Oilwell Varco Norway AS	Hamso	2035-01-27
Offshore lifting crane	Norway	15161240.5	3072844	National Oilwell Varco Norway AS	Hamso	2035-03-27
Draw-works and method for operating the same	Norway	15161583.8	3075946	National Oilwell Varco Norway AS	Hamso	2035-03-30
Improvements in the control of hydraulic actuators	Norway	15171831.9	3104022	National Oilwell Varco Norway AS	Hamso	2035-06-12
Drilling Rig	Norway	15797167.2	3218567	National Oilwell Varco Norway AS	Hamso	2035-11-13
A method for placing and removing pipe from a finger rack	Norway	15797161.5	3218568	National Oilwell Varco Norway AS	Hamso	2035-11-13
Method and apparatus for real-time fluid compressibility measurements	Norway	NO20151610A	<u>NO20151610</u>	National Oilwell Varco Norway AS	Innography	2035-11-25
Lifting crane/wire back tension device	Norway	NO20160031A	<u>NO342945</u>	National Oilwell Varco Norway AS	Innography	2036-01-07
In-line spooling device for compensating fleet angle	Norway	16172667.4	3252000	National Oilwell Varco Norway AS	Hamso	2036-06-02
Bearing arrangement	Norway	16821712.3	3319871	National Oilwell Varco Norway AS	Hamso	2036-07-06
Fibre rope, hoisting system with such a fibre rope, and method for operating said hoisting system	Norway	16180590.6	3299331	National Oilwell Varco Norway AS	Hamso	2036-09-26
System arranged on a marine vessel or platform, such as for providing heave compensation and hoisting	Norway		3301062	National Oilwell Varco Norway AS	Hamso	2036-10-03
Method of upgrading a knuckle-boom crane and a heave-compensating crane	Norway	16187082.7	3318530	National Oilwell Varco Norway AS	Hamso	2036-11-03
Drilling unit comprising an electric heave-compensation system	Norway	17156406.5	3363989	National Oilwell Varco Norway AS	Hamso	2037-02-16
Drilling System and Method	Norway	17178425.9	3421711	National Oilwell Varco Norway AS	Hamso	2037-06-28
Drilling system for rock drilling	Norway	17178322.8	3421712	National Oilwell Varco Norway AS	Hamso	2037-06-28
Crane, marine vessel or rig, and method	Norway	17188808.4	3450676	National Oilwell Varco Norway AS	Hamso	2037-08-31
Electrohydraulic device, method, and marine vessel or platform	Norway		3453893	National Oilwell Varco Norway AS	Hamso	2037-09-08
Tool, installation assembly, and method	Norway	NO20180521A	<u>NO345040</u>	National Oilwell Varco Norway AS	Innography	2038-04-16
A method for installing an offshore wind turbine and a substructure for an offshore wind turbine	Norway	NO20181239A	<u>NO20181239</u>	National Oilwell Varco Norway AS	Innography	2038-09-24
Hydraulic fluid for offshore applications	Norway	NO20181341A	<u>NO20181341</u>	National Oilwell Varco Norway AS	Innography	2038-10-19
Hydraulic fluid for offshore applications	Norway	NO20181341A	<u>NO345520</u>	National Oilwell Varco Norway AS	Innography	2038-10-19
Systems and methods for managing fluid pressure in a borehole during drilling operations	Norway	NO20190004A	<u>NO20190004</u>	National Oilwell Varco Norway AS	Innography	2039-01-03
Cathode coating for an electrochemical cell	Norway	NO20191010A	<u>NO345902</u>	National Oilwell Varco Norway AS	Innography	2039-08-22
An apparatus for positioning of a clamp body and a method for operating a clamp body	Poland	PL12767119T	<u>PL12753781</u>		Innography	2032-09-05
A die retainer system for a clamp die and method of operation of same	Poland	PL12767123T	<u>PL12753783</u>		Innography	2032-09-05
A torque device for oil field use and method of operation for same	Poland	PL12767126T	<u>PL12753785</u>	National Oilwell Varco Norway AS	Innography	2032-09-05
A collector device for drilling fluid	Russia	2009145996	2470138	National Oilwell Norway AS	Hamso	2028-06-11
Mouse hole damper device	Russia	2011119257	2500876	National Oilwell Varco Norway AS	Hamso	2029-10-26



Method and device for treatment of a pipestring section that is positioned in a set-back	Russia	2012144291	2012144291	2553690	National Oilwell Varco Norway AS	Hamso	2031-03-25
Hydraulic clamping device	Russia	RU2011100473A		RU2498042	National Oilwell Varco Norway AS	Innography	2029-06-15
Heaving compensation system and control over said system	Russia	RU2013122781A		RU2569511	National Oilwell Varco Norway AS	Innography	2031-10-11
Method and device for preventing erroneous safety valve opening for drilling fluid	Russia	RU2013145296A		RU2591066	National Oilwell Varco Norway AS	Innography	2032-03-27
Method of reducing vibrations of drill string	Russia	RU2014132033A		RU2609038	National Oilwell Varco Norway AS	Innography	2033-01-17
Method and device for estimating downhole string variables	Russia	RU2016150161A		RU2684782	National Oilwell Varco Norway AS	Innography	2034-06-05
Drilling floor for drilling rig	Russia	RU2017118445A		RU2705686	National Oilwell Varco Norway AS	Innography	2035-09-22
Hoisting crane and method of its operation	Russia	RU2018128401A		RU2743304	National Oilwell Varco Norway AS	Innography	2037-01-04
Method and device for estimating downhole string variables	Saudi Arabia	516380419			National Oilwell Varco Norway AS	Hamso	2034-06-05
Improved Control of Well Bore Trajectories	Saudi Arabia	516371659			National Oilwell Varco Norway AS	Hamso	2035-01-27
A torque device for oil field use and method of operation for same	Singapore	SG112014001150A	SG11201400115Q		National Oilwell Varco Norway AS	Innography	2032-09-05
Simultaneous clamp and torque drive	Singapore	SG10201402687YA	SG10201402687Y		National Oilwell Varco Norway AS	Innography	2032-09-28
Simultaneous clamp and torque drive	Singapore	SG11201401023XA	SG11201401023X		National Oilwell Varco Norway AS	Innography	2032-09-28
A low line controlling device and method of controlling same	Singapore	SG11201406588YA	SG11201406588Y		National Oilwell Varco Norway AS	Innography	2033-04-29
A die holder device for oilfield use and method for utilizing the same	Singapore	SG11201407247YA	SG11201407247Y		National Oilwell Varco Norway AS	Innography	2033-05-29
Device for connecting first and second elongated members	Singapore	SG11201407792WA	SG11201407792W		National Oilwell Varco Norway AS	Innography	2033-06-12
A method for placing and removing pipe from a finger rack	Singapore	SG11201703473RA	SG11201703473R		National Oilwell Varco Norway AS	Innography	2035-11-13
A drawworks device for a drill floor	United Kingdom	07747653.9		2029857	National Oilwell Norway AS	Hamso	2027-06-07
A collector device for drilling fluid	United Kingdom	0921202.8	0921202.8	2462760	National Oilwell Norway AS	Hamso	2028-06-11
Mouse hole damper device	United Kingdom	1105041.6	1105041.6	2476599	National Oilwell Varco Norway AS	Hamso	2029-10-26
Guide system and method for operation of same	United Kingdom			2753782	National Oilwell Varco Norway AS	Hamso	2032-09-05
A die retainer system for a clamp die and method of operation of same	United Kingdom			2753783	National Oilwell Varco Norway AS	Hamso	2032-09-05
An apparatus for positioning an elongate element in an torque device and a method for operating same	United Kingdom			2753784	National Oilwell Varco Norway AS	Hamso	2032-09-05
Winch drum with internal wire storage	United Kingdom	15704106.2		3247667	National Oilwell Varco Norway AS	Hamso	2035-01-22
Method of building an offshore windmill	United Kingdom	17757518.0		3507490	National Oilwell Varco Norway AS	Hamso	2037-08-22
Centralizing device for an elongated body in a mouse hole machine	United Kingdom	07808613.9		EP2064408	National Oilwell Varco Norway AS	Hamso	2027-08-24
Method for lift compensation	United Kingdom	GB201002753A		GB2464252	National Oilwell Varco Norway AS	Innography	2028-09-15
A device for a power tong	United Kingdom	GB201006179A		GB2466164	National Oilwell Varco Norway AS	Innography	2028-10-30
Method and device for chain wheel change	United Kingdom	097351113.4		2265539	National Oilwell Varco Norway AS	Hamso	2029-04-16
Hydraulic clamping device	United Kingdom	GB201019733A		GB2473366	National Oilwell Varco Norway AS	Innography	2029-06-15
Method and device for treatment of a pipestring section that is positioned in a set-back	United Kingdom	11763100.2		2553207	National Oilwell Varco Norway AS	Hamso	2031-03-25
A capture basket system for an underdeck pipehandling machine	United Kingdom	11832813.7		2627861	National Oilwell Varco Norway AS	Hamso	2031-10-11
Lifting tool for opposing twisting of generally submerged ropes	United Kingdom			2635517	National Oilwell Varco Norway AS	Hamso	2031-11-02

An apparatus for positioning of a clamp body and a method for operating a clamp body	United Kingdom	2753781	National Oilwell Varco Norway AS	Hamso	2032-09-05
A torque device for oil field use and method of operation for same	United Kingdom	2753785	National Oilwell Varco Norway AS	Hamso	2032-09-05
System for hoisting a load on an offshore rig	United Kingdom	3014047	National Oilwell Varco Norway AS	Hamso	2034-06-25
Pipe storage and handling	United Kingdom	323-4300	National Oilwell Varco Norway AS	Hamso	2034-12-17
Improved Control of Well Bore Trajectories	United Kingdom	3099883	National Oilwell Varco Norway AS	Hamso	2035-01-27
Offshore lifting crane	United Kingdom	3072844	National Oilwell Varco Norway AS	Hamso	2035-03-27
Draw-works and method for operating the same	United Kingdom	3075946	National Oilwell Varco Norway AS	Hamso	2035-03-30
Improvements in the control of hydraulic actuators	United Kingdom	3104022	National Oilwell Varco Norway AS	Hamso	2035-06-12
In-line spooling device for compensating fleet angle	United Kingdom	3252000	National Oilwell Varco Norway AS	Hamso	2036-06-02
Bearing arrangement	United Kingdom	3319871	National Oilwell Varco Norway AS	Hamso	2036-07-06
Fibre rope, hoisting system with such a fibre rope, and method for operating said hoisting system	United Kingdom	3299331	National Oilwell Varco Norway AS	Hamso	2036-09-26
System arranged on a marine vessel or platform, such as for providing heave compensation and hoisting	United Kingdom	3301062	National Oilwell Varco Norway AS	Hamso	2036-10-03
Method of upgrading a knuckle-boom crane and a heave-compensating crane	United Kingdom	3318530	National Oilwell Varco Norway AS	Hamso	2036-11-03
Drilling unit comprising an electric heave-compensation system	United Kingdom	3363989	National Oilwell Varco Norway AS	Hamso	2037-02-16
Drilling System and Method	United Kingdom	3421711	National Oilwell Varco Norway AS	Hamso	2037-06-28
Drilling system for rock drilling	United Kingdom	3421712	National Oilwell Varco Norway AS	Hamso	2037-06-28
Systems and methods for managing fluid pressure in a borehole during drilling operations	United Kingdom	GB21900048A	National Oilwell Varco Norway AS	Innography	2037-07-06
Crane, marine vessel or rig, and method	United Kingdom	3450676	National Oilwell Varco Norway AS	Hamso	2037-08-31
Electrohydraulic device, method, and marine vessel or platform	United Kingdom	3453883	National Oilwell Varco Norway AS	Hamso	2037-09-08
A collector device for drilling fluid	United States	8,733,435	National Oilwell Norway AS	Hamso	2030-08-01
Internal blow out preventer	United States	9422785	National Oilwell Norway AS	Hamso	2031-01-10
Method of drilling sub-sea oil and gas production wells	United States	8950430	National Oilwell Norway AS	Hamso	2031-08-10
Method and a device for protection of personnel	United States	US5745857	National Oilwell Varco Norway AS	Innography	2022-09-19
Tensioning system for production tubing in a riser at a floating installation for hydrocarbon production	United States	US10/509916	National Oilwell Varco Norway AS	Innography	2023-04-25
Draining of oil leak in a hydraulic cylinder	United States	US10/528667	National Oilwell Varco Norway AS	Innography	2023-11-13
Valve arrangement for reciprocating machinery such as a pump and an compressor	United States	US10/534684	National Oilwell Varco Norway AS	Innography	2023-11-15
Two-part telescopic tensioner for risers at a floating installation for oil and gas production	United States	US10/534683	National Oilwell Varco Norway AS	Innography	2023-12-24
Drill floor device	United States	US12/089484	National Oilwell Varco Norway AS	Innography	2024-01-09
Method of filtering pump noise	United States	US11/628563	National Oilwell Varco Norway AS	Innography	2026-10-24
Centralizing device for an elongated body in a mouse hole machine	United States	US12/311010	National Oilwell Varco Norway AS	Innography	2027-08-04
System for active heave compensation and use thereof	United States	US12/302170	National Oilwell Varco Norway AS	Innography	2029-01-01
Method for lift compensation	United States	US12/679177	National Oilwell Varco Norway AS	Innography	2029-01-29
					2029-02-12

Drawworks device on a drill floor	United States	US12/308591	US8534387	National Oilwell Varco Norway As	Innography	2029-04-04
Method for detection of a fluid leak related to a piston machine	United States	US12/598382	US8416093	National Oilwell Varco Norway As	Innography	2029-12-06
Method for detection of a malfunction related to a fluid affected component in a piston machine	United States	US12/598401	US8601874	National Oilwell Varco Norway As	Innography	2030-06-02
Method for reducing cogging torque effects of an electrical permanent magnet machine	United States	US12/934182	US8541968	National Oilwell Varco Norway As	Innography	2030-08-28
Method and device for hoisting an item by means of a crane	United States	US13/201672	US8882427	National Oilwell Varco Norway As	Innography	2031-02-09
Hydraulic clamping device	United States	US12/995546	US8777199	National Oilwell Varco Norway As	Innography	2031-04-11
Mouse hole damper device	United States	US13/126729	US8844688	National Oilwell Varco Norway As	Innography	2031-08-01
Method for reducing dynamic loads of cranes	United States	US15/069254	US10150653	National Oilwell Varco Norway As	Innography	2032-02-21
Riser tensioner	United States	US13/496195	US9051784	National Oilwell Varco Norway As	Innography	2032-02-24
Capture basket system for an underdeck pipelining machine	United States	US13/878746	US9145759	National Oilwell Varco Norway As	Innography	2032-02-24
Heave compensating system	United States	US13/988281	US9267340	National Oilwell Varco Norway As	Innography	2032-05-24
Method and device for preventing a mud relief valve from incorrect opening	United States	US14/005621	US9163736	National Oilwell Varco Norway As	Innography	2032-08-15
Torque device for oil field use and method of operation for same	United States	US16/714641	US20200115971	National Oilwell Varco Norway As	Innography	2032-09-05
Drilling system and a device for assembling and disassembling pipe stands	United States	US13/880924	US9303468	National Oilwell Varco Norway As	Innography	2032-12-22
Lifting tool for opposing twisting of generally submerged ropes	United States	US13/883169	US9701519	National Oilwell Varco Norway As	Innography	2033-03-14
Tow line controlling device and method of controlling same	United States	US14/398913	US9371113	National Oilwell Varco Norway As	Innography	2033-04-29
Method and apparatus for real-time fluid compressibility measurements	United States	US14/897345	US9915147	National Oilwell Varco Norway As	Innography	2033-06-19
Apparatus and method for recuperation of hydraulic energy	United States	US13/698952	US9382927	National Oilwell Varco Norway As	Innography	2033-07-09
Simultaneous clamp and torque drive	United States	US14/344802	US9428972	National Oilwell Varco Norway As	Innography	2033-08-01
Method and system for detection and localization of a fluid related to a piston machine	United States	US13/988909	US9476417	National Oilwell Varco Norway As	Innography	2033-12-14
Method and device for treatment of a pipestring section that is positioned in a set-back	United States	US13/638119	US9586322	National Oilwell Varco Norway As	Innography	2034-02-14
Die holder device and method for utilizing the same	United States	US14/403860	US9752394	National Oilwell Varco Norway As	Innography	2034-02-16
System and method for reducing drilling oscillations	United States	US14/374494	US9624762	National Oilwell Varco Norway As	Innography	2034-04-14
Method and device for estimating downhole string variables	United States	US16/385148	US10724357	National Oilwell Varco Norway As	Innography	2034-06-05
Method and device for estimating downhole string variables	United States	US15/316422	US10309211	National Oilwell Varco Norway As	Innography	2034-07-20
Chain stopper	United States	US15/523213	US10167059	National Oilwell Varco Norway As	Innography	2034-10-31
Pipe storage and handling	United States	US15/535847	US10494882	National Oilwell Varco Norway As	Innography	2034-12-17
System and method for routing chemicals in a chemical plant	United States	US15/022369	US10198012	National Oilwell Varco Norway As	Innography	2035-01-12
Winch drum with internal wire storage	United States	US15/544431	US10189568	National Oilwell Varco Norway As	Innography	2035-01-22
System for hoisting a load on a drilling rig	United States	US15/539209	US10378290	National Oilwell Varco Norway As	Innography	2035-03-01
Coupler device and method for using the same	United States	US14/892552	US10281076	National Oilwell Varco Norway As	Innography	2035-04-07
Methods and systems for control of wellbore trajectories	United States	US15/114703	US10358904	National Oilwell Varco Norway As	Innography	2035-07-17

Torque device for oil field use and method of operation for same	United States	US14/241161	<u>US10550651</u>	National Oilwell Varco Norway As	Innography	2035-09-22
Method for placing and removing pipe from a finger rack	United States	US15/526024	<u>US10246952</u>	National Oilwell Varco Norway As	Innography	2035-11-13
Drilling rig	United States	US17/249660	<u>US10557314</u>	National Oilwell Varco Norway As	Innography	2035-11-13
Rig floor for a drilling rig	United States	US15/521694	<u>US10611610</u>	National Oilwell Varco Norway As	Innography	2036-02-13
Offshore lifting crane	United States	US15/560064	<u>US10830257</u>	National Oilwell Varco Norway As	Innography	2036-03-26
Apparatus and methods for the control of hydraulic actuators	United States	US15/580234	<u>US10228018</u>	National Oilwell Varco Norway As	Innography	2036-06-08
Bearing arrangement	United States	US15/739329	<u>US10138098</u>	National Oilwell Varco Norway As	Innography	2036-07-06
Draw-works and method for operating the same	United States	US15/074489		National Oilwell Varco Norway As	Innography	2037-02-15
System for energy regeneration and distribution	United States	US16/077397	<u>US20210197674</u>	National Oilwell Varco Norway As	Innography	2037-02-17
Wire back tension device	United States	US16/065011	<u>US10875747</u>	National Oilwell Varco Norway As	Innography	2037-04-16
In-line spooling device for compensating fleet angle	United States	US16/305525	<u>US10822213</u>	National Oilwell Varco Norway As	Innography	2037-05-24
Jack-up rig for performing multiple independent operations simultaneously	United States	US16/309875	<u>US10801270</u>	National Oilwell Varco Norway As,	Innography	2037-06-14
Systems and methods for managing fluid pressure in a borehole during drilling operations	United States	US16/311308	<u>US20190242204</u>	National Oilwell Varco Norway As	Innography	2037-07-06
Method of building an offshore windmill	United States	US16/328160		National Oilwell Varco Norway As	Innography	2037-08-22
Method of upgrading a knuckle-boom crane and a heave-compensating crane	United States	US16/344635	<u>US20200062554</u>	National Oilwell Varco Norway As	Innography	2037-09-06
Fibre rope and hoisting system including such a fibre rope	United States	US16/335181	<u>US20210277598</u>	National Oilwell Varco Norway As	Innography	2037-09-26
Drilling rig	United States	US15/528616	<u>US10961825</u>	National Oilwell Varco Norway As	Innography	2037-11-16
System arranged on a marine vessel or platform, such as for providing heave compensation and hoisting	United States	US16/538614	<u>US11059547</u>	National Oilwell Varco Norway As	Innography	2038-04-04
Drilling system for rock drilling	United States	US16/628765	<u>US20200131868</u>	National Oilwell Varco Norway As	Innography	2038-06-15
Drilling system and method	United States	US16/625490	<u>US20220003057</u>	National Oilwell Varco Norway As	Innography	2038-06-18
Electrohydraulic device, method, and marine vessel or platform	United States	US16/644463	<u>US20210061421</u>	National Oilwell Varco Norway As	Innography	2038-09-07
System and method for calibration of hydraulic models by surface string weight	United States	US16/760976	<u>US20200308918</u>	National Oilwell Varco Norway As	Innography	2038-11-27
Apparatus for supporting a flywheel on a floating vessel and methods thereof	United States	US16/954629	<u>US20200313507</u>	National Oilwell Varco Norway As	Innography	2038-12-21
Device for processing water, system, and methods	United States	US17/040158	<u>US20210008500</u>	National Oilwell Varco Norway As	Innography	2039-03-28
Tool, installation assembly, and method for positioning a wind turbine blade	United States	US17/044929	<u>US20210293222</u>	National Oilwell Varco Norway As	Innography	2039-04-12
A method for installing an offshore wind turbine and a substructure for an offshore wind turbine	United States	US17/278078	<u>US20210348596</u>	National Oilwell Varco Norway As	Innography	2039-09-24
System and method for improved heave compensation	United States	US16/637272	<u>US20200318708</u>	National Oilwell Varco Norway As	Innography	2040-04-01
Hoisting system and method for hoisting a vertically-suspended object	United States	US17/152226	<u>US20210221659</u>	National Oilwell Varco Norway As	Innography	2041-01-19
A ROPE EXTENSION SYSTEM COMPRISING A ROPE CONNECTOR FOR CONNECTING PREPARED ENDS OF TWO ROPE SEGMENTS, AND A HOISTING SYSTEM COMPRISING SUCH ROPE EXTENSION SYSTEM	United States	17/416,317		National Oilwell Varco Norway AS	Hamsco	
Cathode coating for an electrochemical cell	United States			National Oilwell Varco Norway AS	Hamsco	

ELEVATOR FOR HEAVY LOAD  
PIPE LIFTING, PIPE FOR SUCH  
ELEVATOR AND PIPE  
HANDLER ASSEMBLY  
COMPRISING SUCH ELEVATOR

United States

WO	PCT/NO2020/050209	WO2021034201	National Oilwell Varco Norway AS	Hamso	2022-02-22
WO	PCT/NO2020/050254	WO2021075977	National Oilwell Varco Norway AS	Hamso	2022-04-17
WO	PCT/NO2021/050121		National Oilwell Varco Norway AS	Hamso	2022-11-12
WO	PCT/NO2020/050186	WO2021262005	National Oilwell Varco Norway AS	Hamso	2022-12-26
WO	PCT/NO2020/050258		National Oilwell Varco Norway AS	Hamso	2023-04-19
WO	NO2020050254W	<u>WO2021075977</u>	National Oilwell Varco Norway As	Innography	2022-04-17
WO	NO2021050099W	<u>WO2021210988</u>	National Oilwell Varco Norway As	Innography	2022-10-14
WO	NO2021050121W	<u>WO2021230754</u>	National Oilwell Varco Norway As	Innography	2022-11-12
WO	NO2020050186W	<u>WO2021262005</u>	National Oilwell Varco Norway As	Innography	2022-12-26
WO	PCT/NO2021/050037		National Oilwell Varco Norway AS	Hamso	
WO	PCT/NO2021/050099		National Oilwell Varco Norway AS	Hamso	

Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Assignee	Priority date	Data Source	Expiration Date
Suspension of radial turret bearings	Australia	2017382984			APL Norway AS	5/8/2002	Tandberg	5/8/2022
Line length adjuster 2	Australia	2018332581			APL Norway AS	5/8/2002	Tandberg	5/8/2022
mooring line connector	Australia	2018353794			APL Norway AS	5/8/2002	Tandberg	5/8/2022
Kjettingstrammer	Australia	2014260519	2014260519	2014260519	APL Norway AS	6/17/2002	Tandberg	6/17/2022
Exchangeable rail system for large turret bearing	Australia	2017361718			APL Norway AS	3/22/2005	Tandberg	3/22/2025
Suspension of turret bearing units	Australia	2017366191			APL Norway AS	3/22/2005	Tandberg	3/22/2025
A system for quick release of mooring and loading and unloading lines between a vessel	Australia	2019300992			APL Norway AS	4/22/2005	Tandberg	4/22/2025
A energy absorption arrangement for reducing peak mooring loads.	Australia	2019336054			APL Norway AS	4/22/2005	Tandberg	4/22/2025
Subsea Mooring chain connector and tensioner	Australia	2019364146			APL Norway AS	3/19/2010	Tandberg	3/19/2030
Forankringsystem	Australia	2003201516		2003201516	APL Norway AS	3/19/2011	Tandberg	3/19/2031
Mooring arrangement	Australia	AU2003201516A			Innography	2023-01-13		2023-01-13
Dual axes connection device	Brazil	BR112020025539-4	BR112020025539-4		APL Norway AS	3/15/2005	Tandberg	3/15/2025
Riser ball joint	Brazil	BR 11 2018 071760 6	BR 11 2020 007331 8.		APL Norway AS	3/19/2010	Tandberg	3/19/2030
Forankringsanordning	Brazil	PI0311847-9		PI0311847-9	APL Norway AS	5/30/2012	Tandberg	5/30/2032
Rørkopling	Brazil	PI0311856-8		PI0311856-8	APL Norway AS	12/17/2012	Tandberg	12/17/2032
Turntable; voluntary amendments	Brazil	BR 11 2012 023636 9			APL Norway AS	12/17/2012	Tandberg	12/17/2032
Exchangeable rail system for large turret bearing	Brazil	BR112019009835-6	BR112019009835-6		APL Norway AS	12/17/2012	Tandberg	12/17/2032
Suspension of turret bearing units	Brazil	NP BR 11 2019 010705 3			APL Norway AS	5/2/2013	Tandberg	5/2/2033
Suspension of radial turret bearings	Brazil	NP BR 11 2019 012748 8			APL Norway AS	5/2/2013	Tandberg	5/2/2033
mooring line connector	Brazil	BR 11 2020 007331 8.			APL Norway AS	5/2/2013	Tandberg	5/2/2033
Gasstetningsinnretning	Brazil	BR 11 2015 013122 0		BR 11 2015 013122-0	APL Norway AS	12/17/2013	Tandberg	12/17/2033
Tandem loading station.	Brazil	BR112021005782-0	BR112021005782-0		APL Norway AS	5/2/2014	Tandberg	5/2/2034
Subsea Mooring chain connector and tensioner	Brazil	BR112021007445-7	BR112021007445-7		APL Norway AS	1/27/2016	Tandberg	1/27/2036
Rørkopling	Canada	2510666		2.510.666	APL Norway AS	4/25/2016	Tandberg	4/25/2036
Kjettingstrammer	Canada	2.911.173		2911173	APL Norway AS	4/25/2016	Tandberg	4/25/2036
WCEC	Canada	3068937			APL Norway AS	4/25/2016	Tandberg	4/25/2036
Line length adjuster 2	Canada	3075868			APL Norway AS	11/17/2016	Tandberg	11/17/2036
mooring line connector	Canada	3079152			APL Norway AS	11/17/2016	Tandberg	11/17/2036
Subsea Mooring chain connector and tensioner	Canada	3117375			APL Norway AS	11/17/2016	Tandberg	11/17/2036
Riser ball joint	Canada	3022151			APL Norway AS	4/25/2017	Tandberg	4/25/2037
Forankringsanordning	China	03814164.7		ZL03814164.7	APL Norway AS	11/17/2016	Tandberg	11/17/2036
Forankringsystem	China	03804065.4		ZL03804065.4	APL Norway AS	11/17/2016	Tandberg	11/17/2036
Rørkopling	China	03810446.6		ZL03810446.6	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Rørkopling	China	03730924.2		1502051	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Mooring pull-in system	Denmark	06733095.1		EP1861309	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Stigerør-avhenging	EPC	06733120.7		EP1871973	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Suspension of turret-bearing units	EPC	17822803.7		EP3544886	APL Norway AS	11/28/2016	Tandberg	11/28/2036
WCEC	EPC	18769514.3		3544886	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Tandem loading station.	EPC	EP19870663.2		EP3863916	APL Norway AS	11/28/2016	Tandberg	11/28/2036
Suspension of radial turret bearings	EPC	17838001.0-1013		EP358807	APL Norway AS	12/23/2016	Tandberg	12/23/2036
Rørkopling	France	03730924.2			APL Norway AS	12/23/2016	Tandberg	12/23/2036
Rørkopling	Germany	03730924.2		60323962.5	APL Norway AS	12/23/2016	Tandberg	12/23/2036
Rørkopling	Italy	03730924.2		1502051	APL Norway AS	12/23/2016	Tandberg	12/23/2036
A system for quick release of mooring and loading and unloading lines between a vessel	Mexico	MX/a/2021/060284			APL Norway AS	12/23/2016	Tandberg	12/23/2036
A ENERGY ABSORPTION ARRANGEMENT FOR REDUCING PEAK MOORING LOADS	Mexico	MX/a/2021/002604			APL Norway AS	12/23/2016	Tandberg	12/23/2036
Rørkopling	Netherlands	03730924.2		1502051	APL Norway AS	7/6/2017	Tandberg	7/6/2037
Turntable	Norway	20100418		331838	APL Norway AS	7/6/2017	Tandberg	7/6/2037
Rørkopplett basert på kompaktteknologi med dobbel barriere	Norway	20110784		333634	APL Norway AS	7/6/2017	Tandberg	7/6/2037
Gasstetningsinnretning	Norway	20121491		335676	APL Norway AS	9/15/2017	Tandberg	9/15/2037
Kjettingstrammer	Norway	20130615		337531	APL Norway AS	9/15/2017	Tandberg	9/15/2037

riser ball joint	Norway	20160692	342811	APL Norway AS	9/15/2017	Tandberg	9/15/2037
Suspension of radial turret bearings	Norway	17838001.0-1013	EP3558807	APL Norway AS	9/15/2017	Tandberg	9/15/2037
WCEC	Norway	20171115	343764	APL Norway AS	10/16/2017	Tandberg	10/16/2037
Line length adjuster 2	Norway	20171487	345181	APL Norway AS	10/16/2017	Tandberg	10/16/2037
mooring line connector	Norway	20171638	343647	APL Norway AS	10/16/2017	Tandberg	10/16/2037
Dual axes connection device	Norway	20180854	345639	APL Norway AS	10/16/2017	Tandberg	10/16/2037
A energy absorption arrangement for reducing peak mooring loads.	Norway	20181157	345098	APL Norway AS	10/16/2017	Tandberg	10/16/2037
Tandem loading station	Norway	20181304	345444	APL Norway AS	6/19/2018	Tandberg	6/19/2038
Subsea Mooring chain connector and tensioner	Norway	20181371	345444	APL Norway AS	6/19/2018	Tandberg	6/19/2038
Power safety line	Norway	20200641	336667	APL Norway AS	6/19/2018	Tandberg	6/19/2038
Turret stoppering	Norway	20051352	316504	APL Norway AS	7/16/2018	Tandberg	7/16/2038
Foranklingsanordning	Norway	20022892	324808	APL Norway AS	7/10/2018	Tandberg	7/10/2038
Mooring imtrekk	Norway	20051516	324808	APL Norway AS	7/10/2018	Tandberg	7/10/2038
Suspension of turret bearing units	Norway	17822803.7	EP3544886	APL Norway AS	7/10/2018	Tandberg	7/10/2038
Exchangeable rail system for large turret bearing	Norway	17818315.8	EP3541698	APL Norway AS	9/15/2018	Tandberg	9/15/2038
A system for quick release of mooring and loading and unloading lines between a loading and unloading station at sea and a vessel	Norway	20180971	345396	APL Norway AS	10/16/2018	Tandberg	10/16/2038
Multidirectional BLS	Norway	20200402		APL Norway AS	6/19/2019	Tandberg	6/19/2039
Rørkopling	Norway	20022196	316470	APL Norway AS	7/10/2019	Tandberg	7/10/2039
Suspension of turret bearing units	PCT	PCT/NO2017/000031		APL Norway AS	9/15/2018	Tandberg	9/15/2038
Multidirectional BLS	PCT	PCT/NO2021/050084	WO 2021/201688	APL Norway AS	9/15/2018	Tandberg	9/15/2038
Power safety line	PCT	PCT/NO2021/050132	WO 2021/242112	APL Norway AS	9/15/2018	Tandberg	9/15/2038
Rørkopling	South Korea	2004-7017997	10-1023990	APL Norway AS	9/15/2018	Tandberg	9/15/2038
Mooring pull-in system	United Kingdom	06733095.1	EP1861309	APL Norway AS	10/10/2018	Tandberg	10/10/2038
Kjettingstrammer	United Kingdom	1519341.0	2527721	APL Norway AS	10/10/2018	Tandberg	10/10/2038
Suspension of radial turret bearings	United Kingdom	17838001	3558807	APL Norway AS	10/10/2018	Tandberg	10/10/2038
Line length adjuster 2	United Kingdom	2002975.7	2579944	APL Norway AS	10/24/2018	Tandberg	10/24/2038
mooring line connector	United Kingdom	2005291.6		APL Norway AS	10/24/2018	Tandberg	10/24/2038
Dual axes connection device	United Kingdom	2019719.0		APL Norway AS	10/24/2018	Tandberg	10/24/2038
Subsea Mooring chain connector and tensioner	United Kingdom	2105717.9	GB2589475	APL Norway AS	10/24/2018	Tandberg	10/24/2038
Gassteringsinnretning	United Kingdom	1509407.1	2523035	APL Norway AS	10/24/2018	Tandberg	10/24/2038
Exchangeable rail system for large turret bearing	United Kingdom	17818315.8	EP3541698	APL Norway AS	10/10/2019	Tandberg	10/10/2039
Stigeør-avhenging	United Kingdom	06733120.7	EP1871973	APL Norway AS	10/24/2019	Tandberg	10/24/2039
Rørkopling	United Kingdom	03730924.2	1502051	APL Norway AS	4/2/2020	Tandberg	4/2/2040
Suspension of turret bearing units	United Kingdom	17822803.7	EP3544886	APL Norway AS	4/2/2021	Tandberg	4/2/2041
Suspension of turret bearing units	United States	16/462.987	11072397	APL Norway AS	1/17/2002	Tandberg	1/17/2022
Suspension of radial turret bearings	United States	16/471.866	10,787,232	APL Norway AS	1/17/2002	Tandberg	1/17/2022
WCEC	United States	16/626.104	10,982,644	APL Norway AS	1/17/2002	Tandberg	1/17/2022
Dual axes connection device	United States	17/252468	2021-0188401	APL Norway AS	5/8/2002	Tandberg	5/8/2022
A system for quick release of mooring and loading and unloading lines between a loading and unloading station at sea and a vessel	United States	17,258,254	2021-0284287	APL Norway AS	5/8/2002	Tandberg	5/8/2022
A energy absorption arrangement for reducing peak mooring loads.	United States	17/272,594	US-2021-0354789-A1	APL Norway AS	5/8/2002	Tandberg	5/8/2022
Tandem loading station.	United States	17/284,364	2021/0380204	APL Norway AS	5/8/2002	Tandberg	5/8/2022
Subsea Mooring chain connector and tensioner	United States	17/287,059	2021/0380203	APL Norway AS	5/8/2002	Tandberg	5/8/2022
Foranklingsanordning	United States	10/518958	7044817	APL Norway AS	5/8/2002	Tandberg	5/8/2022
Foranklingsystem	United States	10/501757	6932015	APL Norway AS	5/8/2002	Tandberg	5/8/2022
Mooring pull-in system	United States	11/886919	7775175	APL Norway AS	5/8/2002	Tandberg	5/8/2022
riser termination	United States	16/072,539	10,633,935 B2	APL Norway AS	6/17/2002	Tandberg	6/17/2022
Riser ball joint	United States	16/095,417	US 10,851,923	APL Norway AS	6/17/2002	Tandberg	6/17/2022
Exchangeable rail system for large turret bearing	United States	16/461,708	10,759,501 B2	APL Norway AS	6/17/2002	Tandberg	6/17/2022
Line length adjuster 2	United States	16647258	11220913	APL Norway AS	3/22/2005	Tandberg	3/22/2025
mooring line connector	United States	16756414	11220314	APL Norway AS	3/22/2005	Tandberg	3/22/2025
Gassteringsinnretning	United States	14,649,626	10,422,456	APL Norway AS	5/29/2020	Tandberg	5/29/2040
Turntable	United States	US 13/635,816	US 8,813,668	APL Norway AS	5/29/2021	Tandberg	5/29/2041

Multidirectional turret loading system for loading/unloading of fluid between an offshore installation and a vessel  
System for avoiding damage to power cables to and from and within a floating

WO

NO2021050084W

WO2021201688

Apl Norway As

Imnography

2022-10-02

WO

NO2021050132W

WO2021242112

Apl Norway As

Imnography

2022-11-29



Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Registered owner/Applicant	Owner/Applicant Not yet registered	App. Date	Expiration Date	Data Source
Habunsplassert lager	Australia	2010290195		2010290195	NOV Process & Flow Technologies AS		10/22/2003	10/22/2023	Onsagers
Device and method for recovering MEG	Australia	2011325139		2011325139	NOV Process & Flow Technologies AS		9/17/2010	9/17/2030	Onsagers
Fish evaporator	Australia	2012228245		2012228245	NOV Process & Flow Technologies AS		11/27/2011	11/27/2031	Onsagers
CWC with absorption split stream	Australia	2012228245		2012228245	NOV Process & Flow Technologies AS		3/16/2012	3/16/2032	Onsagers
Hi recovery process	Australia	2012285402		2012285402	NOV Process & Flow Technologies AS		7/18/2012	7/18/2032	Onsagers
MEG bottoms involving KHI	Australia	2012356110		2012356110	NOV Process & Flow Technologies AS		12/19/2012	12/19/2032	Onsagers
Hg removal from MEG	Australia	2013269181		2013269181	NOV Process & Flow Technologies AS		5/29/2013	5/29/2033	Onsagers
Pipe in pipe	Australia	2016208499		2016208499	NOV Process & Flow Technologies AS		1/22/2016	1/22/2036	Onsagers
SSU for separation of produced water	Australia	2016277791		2016277791	NOV Process & Flow Technologies AS		6/17/2016	6/17/2036	Onsagers
MEG Recovery System	Australia	2019385645			NOV Process & Flow Technologies AS		11/19/2019	11/19/2039	Onsagers
Fish evaporator	Brazil	BR1120130110597		BR1120130110597	AKER Process Systems AS		11/27/2011	11/27/2031	Onsagers
CWC with absorption split stream	Brazil	BR1120130234610		BR1120130234610	AKER Process Systems AS		3/16/2012	3/16/2032	Onsagers
Hg removal from MEG	Brazil	BR1120140299137		BR1120140299137	NOV Process & Flow Technologies AS		5/29/2013	5/29/2033	Onsagers
TEG Super Purifier	Brazil	BR1120160055632		BR1120160055632	Fjord Processing AS		9/16/2014	9/16/2034	Onsagers
Habunsplassert lager	Brazil	P0314905-6		P0314905-6	Fjord Processing AS		10/22/2023	10/22/2023	Onsagers
Pipe in pipe	Brazil	BR1120170156032			Kongsberg Oil & Gas Technologies AS		1/22/2016	1/22/2036	Onsagers
SSU for separation of produced water	Brazil	BR1120170271362			NOV Subsea Products AS		6/17/2016	6/17/2036	Onsagers
SAPL - Drive Pig	Brazil	BR10202003097857			NOV Subsea Products AS		9/28/2020	9/28/2040	Onsagers
Magnetic Pig Position Sensor	Brazil	BR1020200305102			NOV Subsea Products AS		10/6/2020	10/6/2040	Onsagers
Regulator	Canada	2467989		2467989	NOV Process & Flow Technologies AS		11/21/2002	11/21/2022	Onsagers
Compressor/Inclutants (Mag. 3)	Canada	2450236		2450236	NOV Process & Flow Technologies AS		10/22/2003	10/22/2023	Onsagers
Habunsplassert lager	Canada	2973422		2973422	NOV Process & Flow Technologies AS		1/22/2016	1/22/2036	Onsagers
Pipe in pipe	Canada	2989703			NOV Process & Flow Technologies AS		6/17/2016	6/17/2036	Onsagers
SSU for separation of produced water	Canada	2991493			NOV Process & Flow Technologies AS		1/10/2018	1/10/2038	Onsagers
Ceramic catione	China	2.0138E+12			NOV Process & Flow Technologies AS		5/29/2013	5/29/2033	Onsagers
Hg removal from MEG	China	2.0198E+12			NOV Process & Flow Technologies AS		11/19/2019	11/19/2039	Onsagers
MEG Recovery System	China	200380101869.5		200380101869.5	NOV Process & Flow Technologies AS		10/22/2003	10/22/2023	Onsagers
Habunsplassert lager	China	09759108.9		101027231	NOV Subsea Products AS		9/22/2003	9/22/2023	Onsagers
Habunsplassert lager	Denmark	14716338.7		1554197	NOV Process & Flow Technologies AS		10/22/2003	10/22/2023	Onsagers
TEG Super Purifier	Denmark	18161980.0		EP3046842	NOV Process & Flow Technologies AS		9/16/2014	9/16/2034	Onsagers
Multistage CPU	Europe	19151530.3			NOV Process & Flow Technologies AS		3/15/2018	3/15/2038	Onsagers
Proactive Adaptive Online Scale Monitoring System	Europe	19153157.3			NOV Process & Flow Technologies AS		1/22/2019	1/22/2039	Onsagers
GoConnect SRL - fouling detection through data analytics	Europe	19167734.3			NOV Process & Flow Technologies AS		4/8/2019	4/8/2039	Onsagers
Riserless SSV and Slug Detector	Europe	19206928.4			NOV Process & Flow Technologies AS		11/4/2019	11/4/2039	Onsagers
Magnetic Pig Position Sensor	Europe	19214214.9			NOV Process & Flow Technologies AS		12/6/2019	12/6/2039	Onsagers
SAPL - Drive Pig	Europe	21159600.2			NOV Process & Flow Technologies AS		2/16/2021	2/16/2041	Onsagers
Subsea Ammonia Storage	Europe	21170177.6			NOV Process & Flow Technologies AS		4/23/2021	4/23/2041	Onsagers
Subsea Storage of a water miscible storage fluid.	Europe	22159991.3			NOV Process & Flow Technologies AS		3/2/2022	3/2/2042	Onsagers
Flare Gas Capture and Process	Europe	14790567.3		EP3209424	NOV Process & Flow Technologies AS		10/24/2014	10/24/2034	Onsagers
Power supply system for coalescer	France	14790567.3		EP3209424	NOV Process & Flow Technologies AS		10/24/2014	10/24/2034	Onsagers
Power supply system for coalescer	Germany	09759103.9		EP3209424	NOV Process & Flow Technologies AS		10/24/2014	10/24/2034	Onsagers
Habunsplassert lager	Germany	12769719.1		EP2734277	NOV Subsea Products AS		10/22/2003	10/22/2023	Onsagers
Hi recovery process	Italy	14790567.3		EP3209424	NOV Process & Flow Technologies AS		7/18/2012	7/18/2032	Onsagers
Power supply system for coalescer	Italy	09759103.9		EP3209424	NOV Process & Flow Technologies AS		10/24/2014	10/24/2034	Onsagers
Habunsplassert lager	Netherlands	12769719.1		EP2734277	NOV Process & Flow Technologies AS		10/22/2003	10/22/2023	Onsagers
Power supply system for coalescer	Netherlands	14790567.3		EP3209424	NOV Process & Flow Technologies AS		7/18/2012	7/18/2032	Onsagers
Method and system for controlling power supply to coalescer	Netherlands	18170036.0		EP3658934	NOV Process & Flow Technologies AS		10/24/2014	10/24/2034	Onsagers
Kompenseringendehning	Norway	20023047		315435	National Oilwell Norway AS		4/30/2018	4/30/2038	Onsagers
Habunsplassert lager	Norway	20025986		320112	NOV Process & Flow Technologies AS		6/21/2002	6/21/2022	Onsagers
Capacitive load voltage regulation (Mag 8)	Norway	20040941		324439	NOV Process & Flow Technologies AS		10/23/2002	10/23/2022	Onsagers
Capacitive load current limiting (Mag 9)	Norway	20040481		320040	NOV Process & Flow Technologies AS		2/3/2004	2/3/2024	Onsagers
Variable load power supply control (Mag. 10)	Norway	20040507		320108	NOV Process & Flow Technologies AS		2/3/2004	2/3/2024	Onsagers
Resistive load control (Mag. 11)	Norway	20042527		321594	NOV Process & Flow Technologies AS		2/3/2004	2/3/2024	Onsagers
Heavy oil	Norway	20052003		320637	NOV Process & Flow Technologies AS		6/16/2004	6/16/2024	Onsagers
Hi recovery process	Norway	20111007		323182	NOV Process & Flow Technologies AS		5/23/2009	5/23/2039	Onsagers
Fish evaporator	Norway	20130738		340453	NOV Process & Flow Technologies AS		7/20/2011	7/20/2031	Onsagers
CWC with absorption split stream	Norway	20131350			NOV Process & Flow Technologies AS		11/2/2011	11/2/2031	Onsagers
MEG bottoms involving KHI	Norway	20146904			NOV Process & Flow Technologies AS		3/16/2012	3/16/2032	Onsagers
Power supply system for coalescer	Norway	20130611		336293	NOV Process & Flow Technologies AS		12/19/2012	12/19/2032	Onsagers

Hg removal from MEG	13734653.0	EP2859461	NOV Process & Flow Technologies AS	5/29/2013	5/29/2013	Onsagers
TEG Super Purifier	14771538.7	EP3046442	NOV Process & Flow Technologies AS	9/16/2014	9/16/2014	Onsagers
Pipe-in-pipe	20130106	339211	NOV Process & Flow Technologies AS	1/22/2015	1/22/2015	Onsagers
SSU for separation of produced water	20150796	340143	NOV Process & Flow Technologies AS	6/17/2015	6/17/2015	Onsagers
Subsea MEG-storage	20150842	340075	NOV Process & Flow Technologies AS	6/26/2015	6/26/2015	Onsagers
Axial flow demister – improved swirl inducer	20151102	341179	NOV Process & Flow Technologies AS	8/28/2015	8/28/2015	Onsagers
SSU for separation of produced water	20180021		NOV Process & Flow Technologies AS	6/17/2016	6/17/2016	Onsagers
Hybrid hydrate inhibition recovery system	20162051	342676	NOV Process & Flow Technologies AS	12/23/2016	12/23/2016	Onsagers
Ceramic cyclone	20170072	343472	NOV Process & Flow Technologies AS	1/17/2017	1/17/2017	Onsagers
Method and system for controlling power supply to coalescer	18170036.0	EP3563934	NOV Process & Flow Technologies AS	4/30/2018	4/30/2018	Onsagers
MEG Recovery System	20210894		NOV Process & Flow Technologies AS	11/19/2019	11/19/2019	Onsagers
Proactive Adaptive Online Scale Monitoring System	20210911		NOV Process & Flow Technologies AS	1/9/2020	1/9/2020	Onsagers
Crude oil emulsion treating apparatus and method	2013156931	2594740	NOV Process & Flow Technologies AS	5/31/2012	5/31/2012	Onsagers
Hebunnsplassetlager	2005115479	2341433	NOV Subsea Products AS	10/22/2003	10/22/2003	Onsagers
Pig removal from MEG	10-2014-7037017	10-20292029	NOV Process & Flow Technologies AS	5/29/2013	5/29/2013	Onsagers
Flash evaporator	1111108.5	2492521	NOV Process & Flow Technologies AS	9/30/2011	9/30/2011	Onsagers
HI recovery process	1776780.1	EP234277	NOV Process & Flow Technologies AS	7/18/2012	7/18/2012	Onsagers
MEG bottoms involving KHI	1776780.1	EP234277	NOV Process & Flow Technologies AS	11/19/2012	11/19/2012	Onsagers
Hg removal from MEG	13734653.0	EP3046442	NOV Process & Flow Technologies AS	5/29/2013	5/29/2013	Onsagers
TEG Super Purifier	14771538.7	EP3046442	NOV Process & Flow Technologies AS	9/16/2014	9/16/2014	Onsagers
Power supply system for coalescer	14795667.3	EP3209424	NOV Process & Flow Technologies AS	10/24/2014	10/24/2014	Onsagers
Proactive Adaptive Online Scale Monitoring System	21082029		NOV Process & Flow Technologies AS	1/9/2020	1/9/2020	Onsagers
Hebunnsplassetlager	03759103.9	1554197	NOV Subsea Products AS	10/22/2003	10/22/2003	Onsagers
Hebunnsplassetlager	10/513235	7448404	NOV Process & Flow Technologies AS	10/22/2003	10/22/2003	Onsagers
Flash evaporator	13/882771	9323320	NOV Process & Flow Technologies AS	11/7/2011	11/7/2011	Onsagers
HI recovery process	14/232009	9006500	NOV Process & Flow Technologies AS	7/18/2012	7/18/2012	Onsagers
CMC with absorption split stream	14/005464	9155589	NOV Process & Flow Technologies AS	3/16/2012	11/12/2012	Onsagers
Hg removal from MEG	14/404519	9376358	NOV Process & Flow Technologies AS	5/29/2013	5/29/2013	Onsagers
MEG bottoms involving KHI	14/366411	9783456	NOV Process & Flow Technologies AS	12/19/2012	7/27/2013	Onsagers
Power supply system for coalescer	15/518975	10456713	NOV Process & Flow Technologies AS	10/24/2014	7/15/2015	Onsagers
Ceramic cyclone	15/872101	10731734	NOV Process & Flow Technologies AS	1/16/2018	12/28/2018	Onsagers
Proactive Adaptive Online Scale Monitoring System	17/420487		NOV Process & Flow Technologies AS	1/9/2020	1/9/2020	Onsagers
SAPL – Drive Pig	17/086874		NOV Process & Flow Technologies AS	11/2/2020	11/2/2020	Onsagers
SSU for separation of produced water	15/737397	10653062	NOV Process & Flow Technologies AS & CHEVRON U.S.A. INC.	6/17/2016	6/17/2016	Onsagers
Pipe-in-pipe	15/540809	10364654	NOV Subsea Products AS	1/22/2016	7/26/2016	Onsagers
Magnetic Pig Position Sensor	17/085501		NOV Subsea Products AS	10/30/2020	10/30/2020	Onsagers

Patent Title	Country/Jurisdiction	Application No.	Publication No.	Registration No.	Applicant/Proprietor	Data Source	Expiration Date
System and method for disinfecting and removing biological material from water to be injected in an underwater injection well	Australia	AU2014216810A		AU2014216810	Seabox As	Innography	2/11/2034
System and method for disinfecting and removing biological material from water to be injected into an underwater injection well	Brazil	BR112015019191A	BR112015019191		Seabox As	Innography	2/11/2029
Method and apparatus for separating particles from injection water	Denmark	DK06783994T		DK1929124	Seabox As	Innography	9/11/2026
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Denmark	DK11851865T		DK2655793	Seabox As	Innography	12/19/2031
A method and a device for destructing organic material in injection water for a subsea injection well	Europe	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	Germany	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	Denmark	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	France	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	United Kingdom	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	Italy	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
A method and a device for destructing organic material in injection water for a subsea injection well	Netherlands	EP06835719A		EP1963620	Seabox As	Innography	12/11/2026
Method and device for separation of particles from injection water	Europe	EP06783994A		EP1929124	Seabox As	Innography	9/11/2026
Method and device for separation of particles from injection water	Denmark	EP06783994A		EP1929124	Seabox As	Innography	9/11/2026
Method and device for separation of particles from injection water	United Kingdom	EP06783994A		EP1929124	Seabox As	Innography	9/11/2026
Method and device for separation of particles from injection water	Netherlands	EP06783994A		EP1929124	Seabox As	Innography	9/11/2026
Method and device for dosing of chemicals into injection water	Europe	EP06783999A		EP1934429	Seabox As	Innography	9/18/2026
Method and device for dosing of chemicals into injection water	France	EP06783999A		EP1934429	Seabox As	Innography	9/18/2026
Method and device for dosing of chemicals into injection water	United Kingdom	EP06783999A		EP1934429	Seabox As	Innography	9/18/2026
Technical system, method and use for online measuring and monitoring of the particle contents in a flow of injection water in an underwater line	Europe	EP11834681A		EP2630467	Seabox As	Innography	10/20/2031
Technical system, method and use for online measuring and monitoring of the particle contents in a flow of injection water in an underwater line	United Kingdom	EP11834681A		EP2630467	Seabox As	Innography	10/20/2031
Technical system, method and use for dosing of at least one liquid treatment means into injection water to an injection well	Norway	EP11834681A		EP2630467	Seabox As	Innography	10/20/2031
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Europe	EP11851865A		EP2655793	Seabox As	Innography	12/19/2031
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Denmark	EP11851865A		EP2655793	Seabox As	Innography	12/19/2031
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	United Kingdom	EP11851865A		EP2655793	Seabox As	Innography	12/19/2031
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Netherlands	EP11851865A		EP2655793	Seabox As	Innography	12/19/2031

Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Norway	EP11851865A	EP2655793	Seabox As	Innoography	12/19/2031
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	Malaysia	MYPI2013002037A	M/158869	Seabox As	Innoography	12/19/2031
A seawater desalination system and method for providing water having a predetermined salinity and maintaining said salinity in an open water reservoir	Malaysia	MA41716A	MA41716	Seabox As	Innoography	7/13/2036
Water Treatment Installation, Method and Use for Removal Under Water of at Least One Undesirable Component from Water	Norway	NO20101192	NO20101192	Seabox As	Innoography	8/25/2030
Technical system, method and uses for dosing of at least one liquid treatment means into injection water to an injection well	US	US13/996144	US9528350	Seabox As	Innoography	4/9/2033
Technical system, method and use for online measuring and monitoring of the particle contents in a flow of injection water in an underwater line	US	US13/880912	US9689787	Seabox As	Innoography	6/18/2032
System and method for disinfecting and removing biological material from water to be injected in an underwater injection well	US	US17/115542	US20210087080	Seabox As	Innoography	2/11/2034

Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Assignee	Filing	Expiration Date
Connector Device For Use In Wireline Intervention ( Method and apparatus	Australia	2012370411	AU2007202551A	2012370411	National Oilwell Varco Uk Limited	2012-12-28	2032-12-28
Offshore vessel mooring and riser hoarding system	Australia	AU2005291043A	AU2005291043A		National Oilwell Varco Uk Limited		2027-06-01
Screen system	Australia	AU2002321447A	AU2002321447A		National Oilwell Varco Uk Limited	2012-05-02	2022-08-12
Screening apparatus and method	Australia	AU2001743845A	AU2001743845A		National Oilwell Varco Uk Limited		2037-10-13
Seal	Australia	AU2001255023A	AU2001255023A		National Oilwell Varco Uk Limited		2035-05-01
Shale shaker basket system	Australia	2012202563	AU2012202563	2012202563	National Oilwell Varco Uk Limited		2037-05-02
Valve and Method of Operating a Valve	Australia	2012227287	AU2012227287	2012227287	National Oilwell Varco Uk Limited	2012-09-24	2037-12-14
Wireline Pressure Control Apparatus	Australia	2012354176	AU2012354176	2012354176	National Oilwell Varco Uk Limited	2012-12-06	2032-09-24
Wireline roller device	Australia	AU201312198F	AU201312198F	349782	National Oilwell Varco Uk Limited	2012-12-06	2032-05-13
Method to produce a filtering screen	Brazil	BRP11005947A	BRP11005947A		National Oilwell Varco Uk Limited (gb)	2030-04-22	2030-04-22
Rising column hoarding system and method of mooring offshore vessels	Brazil	BRP0516140A	BRP0516140A		National Oilwell Varco Uk Limited (gb)	2029-01-22	2029-01-22
Seal	Brazil	BR102012010667A	BR102012010667A		National Oilwell Varco Uk Limited	2032-05-04	2032-05-04
Sieving apparatus	Brazil	BR112019007460A	BR112019007460A		National Oilwell Varco Uk Limited (gb)	2032-10-13	2032-10-13
Valve	Brazil	BR1020120252023	BR1020120252023		National Oilwell Varco Uk Limited	2012-10-02	2032-10-02
Valve and method of operating a valve	Canada	2311254	2311254	2311254	National Oilwell Varco Uk Limited	2009-06-09	2027-10-02
"A Circulating Sub Apparatus and Method"	Canada	2854861	2854861	2854861	National Oilwell Varco Uk Limited	2007-06-01	2020-06-09
"Method and Apparatus"	Canada	2775215	2775215	2775215	National Oilwell Varco Uk Limited	2012-12-28	2032-12-28
Connector Device for Use in Wireline Intervention C	Canada	CA2769894A	CA2769894A		National Oilwell Varco Uk Limited	2012-04-18	2032-04-18
Seal	Canada	2775215	2775215	2775215	National Oilwell Varco Uk Limited		2039-09-01
Sealing apparatus and method	Canada	2791673	2791673	2791673	National Oilwell Varco Uk Limited	2012-10-02	2032-10-02
Valve and Method of Operating a Valve	Canada	2854860	2854860	2854860	National Oilwell Varco Uk Limited	2012-12-06	2032-12-06
Wireline Pressure Control Apparatus	Canada	131076	131076	131076	National Oilwell Varco Uk Limited	2033-05-10	2033-05-10
Wireline Roller Device	Canada	20090984	20090984		National Oilwell Varco Uk Limited	2018-06-06	2038-06-06
Wireline Sealing Assembly	Canada	20090984	20090984		National Oilwell Varco Uk Limited	2018-06-06	2038-06-06
Hinged flow pipeline connector	China	CN113167460	CN113167460		National Oilwell Varco Uk Limited	2012-04-27	2029-12-30
Valve and the method for operation valve	China	CN201980080622A	CN201980080622A		National Oilwell Varco Uk Limited	2012-04-27	2032-04-27
Method and apparatus for sealing a bore with a wire throughtrough	China	CN20121028834.1	CN20121028834.1	ZL20121028834.1	National Oilwell Varco Uk Limited	2012-04-27	2032-04-27
Seal	China	CN20130175059.0	CN20130175059.0	ZL20130175059.0	National Oilwell Varco Uk Limited	2013-05-13	2032-09-27
Wireline Roller Device	Denmark	DK0725233T	DK0725233T		National Oilwell Varco Uk Limited		2027-06-01
Method and apparatus for sealing a bore with a wire throughtrough	Denmark	DK12164385T	DK12164385T		National Oilwell Varco Uk Limited		2027-06-01
Sealing	Denmark	DK2207250	DK2207250		National Oilwell Varco Uk Limited		2032-04-17
Sealing apparatus and method	Denmark	DK2473701	DK2473701		National Oilwell Varco Uk Limited		2032-04-17
Valve and Method of Operating a Valve	Denmark	DK12186882T	DK12186882T		National Oilwell Varco Uk Limited		2032-04-17
"Wireline Centralisation Apparatus and Method"	Denmark	01307675.7	01307675.7	11867438	Elmar Services Limited	2001-09-10	2032-10-01
A connection and protective ring therefor	Europe	EP1586784A	EP1586784A		Elmar Services Limited	2001-09-10	2032-10-01
A tool and method for facilitating communication between a computer apparatus and a device in a drill string	Europe	EP16712418A	EP16712418A		National Oilwell Varco Uk Limited		2035-12-02
Apparatus for screening drilling mud	Europe	EP09006866A	EP09006866A		National Oilwell Varco Uk Limited		2036-03-21
Connector device for use in wireline intervention operations	Europe	EP12821176A	EP12821176A		National Oilwell Varco Uk Limited, Gb	2024-06-14	2034-06-14
Improved plug valve	Europe	EP27298143	EP27298143		National Oilwell Varco Uk Limited	2032-12-28	2032-12-28
Method and apparatus for sealing a bore with a line throughtrough	Europe	EP08788643A	EP27298143		National Oilwell Varco Uk Limited	2028-08-07	2028-08-07
Offshore vessel mooring and riser hoarding system	Europe	EP07523233A	EP1855145		National Oilwell Varco Uk Limited	2027-06-01	2027-06-01
Screen system	Europe	EP05794469A	EP1298958		National Oilwell Varco Uk Limited	2025-09-30	2025-09-30
Screening apparatus and method	Europe	EP02755150A	EP1414541		National Oilwell Varco Uk Limited, Gb	2022-08-12	2022-08-12
Seal	Europe	EP15721389A	EP3372721		National Oilwell Varco Uk Limited	2035-05-01	2035-05-01
Sealing apparatus and method	Europe	EP12164385A	EP2520760		National Oilwell Varco Uk Limited	2032-04-17	2032-04-17
Shale shaker	Europe	EP10810867A	EP2473701		National Oilwell Varco Uk Limited	2030-09-01	2030-09-01
Shale shaker basket system	Europe	EP1787580A	EP3523584		National Oilwell Varco Uk Limited	2037-10-13	2037-10-13
Valve and method of operating a valve	Europe	EP1818235A	EP354724		National Oilwell Varco Uk Limited	2037-12-14	2037-12-14
Wireline Roller Device	Europe	EP12186882A	EP25287298		National Oilwell Varco Uk Limited	2032-10-01	2032-10-01
Wireline Roller Device	Europe	002135046-0001	002135046-0001	002135046-0001	National Oilwell Varco Uk Limited	2012-11-13	2032-11-13
"Dispositif et procédé pour centrer un câble de mar joint"	France	01307675.7	01307675.7	11867438	National Oilwell Varco Uk Limited	2012-11-13	2032-11-13
"Dispositif et procédé pour centrer un câble de mar joint"	France	12164385.2	12164385.2	11867438	National Oilwell Varco Uk Limited	2001-09-10	2031-09-10
Dichtung	Germany	602012024748.7	602012024748.7	25207608	National Oilwell Varco Uk Limited	2012-04-17	2032-04-17
Wire rope ausblendensteuerungseinrichtung	Germany	DE602074661T	DE602074661T	25207608	National Oilwell Varco Uk Limited	2012-04-17	2032-04-17
Sealing Assembly	Gulf Cooperation Council	35475	DK620076561		National Oilwell Varco Uk Ltd., Manchester, Gb	2018-06-13	2032-09-03
Seal	Hungary	HUE12164385A	HUE032249	253784	National Oilwell Varco Uk Limited	2013-05-13	2033-05-13
Wireline Roller Device	India	IN238082013A	IN238082013A		National Oilwell Varco Uk Limited	2033-05-13	2033-05-13
Valve and method of operating a valve	Indonesia	IN0253784F	IN0253784F		National Oilwell Varco Uk Limited	2033-01-29	2033-01-29
Wireline roller tool	Indonesia	5020170001063A	5020170001063A	11867438	National Oilwell Varco Uk Limited	2033-05-13	2033-05-13
"Wireline Centralisation Apparatus and Method"	Italy	MY12013000938A	MY12013000938A	25207608	National Oilwell Varco Uk Limited	2012-04-17	2032-04-17
Seal	Italy	MX/02/012/004660	MX/02/012/004660	332766	National Oilwell Varco Uk Limited	2012-04-20	2032-02-10
Valve	Malaysia	MX/02/001763A	MX/02/001763A		National Oilwell Varco Uk Limited, *	2032-02-10	2032-02-10
Sealing apparatus and method.	Mexico	01307675.7	01307675.7	336252	National Oilwell Varco Uk Limited	2012-10-02	2032-10-02
Wireline Roller Device	Mexico	12164385.2	12164385.2	413653	Nations Oilwell Varco Uk Limited	2032-05-10	2032-05-10
"Wireline Centralisation Apparatus and Method"	Mexico	20072658	20072658	11867438	National Oilwell Varco Uk Limited	2001-09-10	2031-09-10
Seal	Netherlands	20072658	20072658	25207608	National Oilwell Varco Uk Limited	2012-04-17	2032-04-17
"Method and Apparatus"	Norway	10810867.1	10810867.1	341332	National Oilwell Varco Uk Limited	2007-06-04	2032-06-04
"TETNINGSPAPPARAT OG PREMANGSMÅTE"	Norway	10810867.1	10810867.1	2473701B	National Oilwell Varco Uk Limited	2010-09-01	2030-09-01

Connector Device for Use in Wireline Intervention C System for mooring a vessel at sea and inboard arrangement of risers	Norway	12821176.0	27981433	National Oilwell Varco UK Limited	2032-12-28
Teining	Norway	NO20072163A		National Oilwell Varco UK Limited	2027-05-02
Ventil og fremgangerm�te for drift av en ventil	Norway	12164385.2	25207608	National Oilwell Varco UK Limited	2032-04-17
Wireline Roller Device	Norway	12184682.2	25787988	National Oilwell Varco UK Limited	2032-10-01
Connector device for use in wireline intervention operations	Norway	20130476	084025	National Oilwell Varco UK Limited	2033-05-10
Drilling Tool	Poland	P.12821176T		National Oilwell Varco UK Limited	2032-12-28
A connection and protective ring therefor	Russia	2013501788	92883	National Oilwell Varco UK Limited	2033-05-13
Connector device for use in wireline intervention operations	Saudi Arabia	SAS17381643A		National Oilwell Varco UK Limited	2037-06-03
Roller device	Singapore	SG11201402376RA		National Oilwell Varco UK Limited	2032-12-28
Sealing apparatus and method	Singapore	SG11201538453WA		National Oilwell Varco UK Limited	2033-11-14
Wireline Roller Device	Singapore	SG2012052314A		National Oilwell Varco UK Limited	2032-05-02
Valve and method of operating a valve	Singapore	SG2012009170A		National Oilwell Varco UK Limited	2030-09-01
Wireline Roller Device	Singapore	SG2012071526A		National Oilwell Varco UK Limited	2030-09-26
Device for Guiding A String or Cable into a Wellbore	Singapore	D2013/688/B		National Oilwell Varco UK Limited	2033-05-13
"A Circulating Sub Apparatus and Method"	Thailand	1302001284		National Oilwell Varco UK Limited	2033-05-14
"Method and Apparatus for Sealing a Bore with a Li"	United Kingdom	GB0014104.4	D2013/688/B	National Oilwell Varco UK Limited	2033-05-14
"Sealing Apparatus and Method"	United Kingdom	EP0725233.7	51725	National Oilwell (UK) Limited	2020-06-12
"Wireline Centralisation Apparatus and Method"	United Kingdom	EP10810867.1	23515113	National Oilwell Varco UK Limited	2000-06-12
Clamp Assembly	United Kingdom	EP0307075.7	18631458	National Oilwell Varco UK Limited	2007-06-01
Connection Assembly	United Kingdom	GB2008988.2	24737018	National Oilwell Varco UK Limited	2030-09-01
Connector Device for Use in Wireline Intervention C	United Kingdom	GB2009514.3	1.1867488	National Oilwell Varco UK Limited	2001-09-10
Hydraulic fracturing connection assembly	United Kingdom	EP12821176.0		National Oilwell Varco UK Limited	2040-12-02
Hydraulic fracturing connection assembly	United Kingdom	GB202019602A		National Oilwell Varco UK Limited	2020-04-23
Roller Device	United Kingdom	GB202117340A		National Oilwell Varco UK Limited	2032-12-28
Seal	United Kingdom	GB1508982.4	27981433	National Oilwell Varco UK Limited	2040-12-11
Wireline Pressure Control Apparatus	United Kingdom	EP1216435.2		National Oilwell Varco UK Limited	2041-12-01
Wireline Roller Device	United Kingdom	GB1408791.0		National Oilwell Varco UK Limited	2033-11-14
"Method and Apparatus"	United Kingdom	GB202117340		National Oilwell Varco UK Limited	2032-04-17
"Wireline Centralisation Apparatus and Method"	United Kingdom	EP1216435.2		National Oilwell Varco UK Limited	2032-04-17
Clamp assembly	United States	US2020018238S		National Oilwell Varco UK Limited	2032-10-01
Connection and protective ring therefor	United States	US17/474728		National Oilwell Varco UK Limited	2032-10-01
Connector Device for Use in Wireline Intervention C	United States	US15/351353	25207608	National Oilwell Varco UK Limited	2032-12-06
Lockable Fracturing Connection Assembly	United States	US16/658135	25787988	National Oilwell Varco UK Limited	2032-11-13
Locked connections between two threaded members	United States	14/359895	25107588	National Oilwell Varco UK Limited	2032-11-13
Offshore vessel mooring and riser inboarding system	United States	17/643778	90021350460001	National Oilwell Varco UK Limited	2021-06-01
Roller Device	United States	US15/625220	90021350460002	National Oilwell Varco UK Limited	2027-06-01
Screening apparatus	United States	US11/574809	6676103	National Oilwell Varco UK Limited	2031-09-07
Seal	United States	14/442973		National Oilwell Varco UK Limited	2038-12-10
Sealing Apparatus and Method	United States	US16/341324		National Oilwell Varco UK Limited	2040-12-04
Shale shaker basket system	United States	US13/454179		National Oilwell Varco UK Limited	2038-03-20
Tool and method for facilitating communication between a computer apparatus and a device in a drill string	United States	US13/91074		National Oilwell Varco UK Limited	2040-04-24
Valve	United States	US16/469754		National Oilwell Varco UK Limited	2032-12-28
Wireline Pressure Control Apparatus	United States	US15/653766		National Oilwell Varco UK Limited	2041-12-10
Wireline Roller Device	United States	13/633290		National Oilwell Varco UK Limited	2038-12-07
Wireline Sealing Assembly	United States	14/359150		National Oilwell Varco UK Limited	2038-12-06
Wireline valve actuator	United States	29/454516		National Oilwell Varco UK Limited	2033-05-10
	United States	16/622594		National Oilwell Varco UK Limited	2038-06-06
	United States	US10/233986		National Oilwell Varco UK Limited	2033-01-03

Title	Country/Jurisdiction	Patent App. No.	Patent App. Pub. No.	Patent No.	Assignee	Expiration Date
Improvements in or relating to hand rails	United Kingdom	GB201101830A	GB2477433	GB2477433	Pipex Limited	2/2/2031
Improvements in or relating to hand rails	United Kingdom	GB201101831A	GB2477434	GB2477434	Pipex Limited	2/2/2031
Improvements in or relating to hand rails	United Kingdom	GB201002004A	GB2477555	GB2477555	Pipex Limited	2/8/2030
Improvements in or relating to hand rails	United Kingdom	GB201101826A	GB2477655	GB2477655	Pipex Limited	2/2/2031
Improvements in or relating to hand rails	United Kingdom	GB201208661A	GB2487174	GB2487174	Pipex Limited	2/2/2031
Improvements in or relating to railway platforms	United Kingdom	GB201509942A	GB2528768		Pipex Limited	6/8/2035
A wear plate	United Kingdom	GB201509939A	GB2528034		Pipex Limited	6/8/2035
A locking mechanism	Malaysia	MYP2012005445A			Pipex Limited	2/2/2031
Railing system comprising a head rail and one or more supportive pillars.	United Kingdom	GB201508137A	GB2539636	MY157980 GB2539636	Pipex Limited	5/13/2035
Improvements in or relating to railway platforms	Norway	NO20121009A	NO20121009		Pipex Limited	9/7/2032
Hand rails	United Kingdom	GB201410146A	GB2529380	GB2529380	Pipex Limited	6/8/2034
A protection system	United States	US16/241,482	US20190136540		Pipex Limited	2/2/2031
Hand rails	United Kingdom	GB201508137A	GB2539636	GB2539636	Pipex Limited	5/13/2035
Offshore handrail system, offshore installation and method	United States	US15/639749	US10968637	US10968637	Pipex Limited	9/21/2032
Improvements in or relating to railway platforms	Brazil	BR112012019908A	BR112012019908	BR112012019908	Pipex Limited	5/18/2031
	United Kingdom	GB201809779A	GB2565417	GB2565417	Pipex Limited	6/14/2038

**Patent Title**  
Pig receiver

**Country**  
Denmark

**Patent App. No.**  
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**Patent No.**  
2422890

**Applicant/Proprietor**  
Process & Flow Technologies UK Ltd

**Data Source**  
Plougmann Vingtoft

**Expiration Date**  
2030-08-31



Title	Country	Application No.	Publication No.	Registration No.	Registered Assignee	Owner	Expiration Date
Processing Apparatus comprising a microwave processing chamber	Argentina	ARP170109942A	ARI108132	AU2017248706A	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-07-18
Apparatus comprising a microwave processing chamber	Australia	AU2017248706A		AU2017248706	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Downhole tool with rotational drive coupling and associated methods	Australia	AU2017248706A		AU2017248706	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Under-reamer	Australia	AU2013308254A		AU2013308254	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-08-29
Apparatus and method for use in cligging the first and second descending hole tools, drill string, and reamer actuation method	Australia	AU20102323564A		AU20102323564	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2030-04-09
Apparatus and method for use in the control of first and second tools of descending hole, drilling column, and method of actuation of a reamer	Brazil	BR102013002482A		BR102013002482	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2028-01-31
Apparatus Comprising A Microwave Processing Chamber	Brazil	BR102013002482A		BR102013002482	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2033-01-31
Descending hole device, and descending hole device operating method	Brazil	1120180711616	1120180711616		NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2032-03-30
Descending hole tool, method for operating a descending hole tool, and descending hole tool cutting and actuation members	Brazil	BRP1014968A		BRP1014968	Nov Downhole Eurasia Limited (gb)	Nov Downhole Eurasia Limited (gb)	2030-04-09
Downhole Tool Actuator	Brazil	BR112013016685A		BR112013016685	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2026-12-29
Downhole tool, and method for operating a downhole tool	Brazil	1120140089183		1120140089183	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2032-10-09
Drill Bit	Brazil	BR112013016685A		BR112013016685	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2031-12-29
Extension to extend a hole from an underground formation, and method to extend a hole from an underground formation	Brazil	BR112015016937A	BR112015016937	1120150169376	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2029-01-08
Processing apparatus.	Brazil	BR112018071161A	BR112018071161		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-03-30
Replaceable down hole tool actuator, and subcarrier arrangement	Brazil	BR112014008918A		BR112014008918	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2027-10-09
Resettable well bore tool actuator, and subcarrier arrangement	Brazil	BR112014008918A		BR112014008918	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-10-09
Apparatus comprising a microwave processing chamber	Canada	CA3020787A	CA3020787		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Downhole pulse-generating apparatus	Canada	CA2786017A		CA2786017	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-08-13
Downhole tool	Canada	CA2765055A		CA2765055	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-01-20
Downhole tool actuator	Canada	CA2852252A		CA2852252	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-10-09
Drilling Apparatus	Canada	2696789.00		2696789	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2028-06-05
Fabrication method using foam elements, and structures fabricated using the method	Canada	CA2991845A	CA2991845		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-07-08
Lockable reamer	Canada	CA2746259A		CA2746259	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2031-07-18
Manufacturing method	Canada	CA2971788A		CA2971788	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-12-18
Multi cycle downhole tool	Canada	CA2931928A		CA2931928	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-11-27
Rotary downhole tool	Canada	CA2975575A		CA2975575	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-01-28
Selective Agitation	Canada	2658162.00		2658162	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2027-07-06
Underreamer	Canada	2757678.00		2757678	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2030-04-09
Device including a microwave processing chamber	Denmark	DK17715989T		DK3442698	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Selective borehole actuator	Denmark	DK16706412T		DK3259437	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-02-19
Selective borehole actuator	Denmark	DK18193558T		DK3489457	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-02-19
Downhole tool with rotational drive coupling and associated method	Eurasian Patent Organization	EA201991631A		EA038550	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-08-29
Apparatus comprising a microwave processing chamber	Europe	EP17715989A		EP3442698	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Apparatus comprising a microwave processing chamber	Europe	EP17715989A		EP3442698	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2037-03-30
Combination Bit	Europe	02730474.0	1415064	EP3442698	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2022-06-05
Cutting element	Europe	EP14710799A		EP2978920	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2034-03-12
Downhole devices and associated apparatus and methods	Europe	EP18822458A	EP3724440		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2038-12-13
Downhole tool	Europe	EP12170333A		EP2532827	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2030-04-09
Hydraulic Under Reamer	Europe	04729456.6	1618277	1618277.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2024-04-26
Multi cycle downhole tool	Europe	EP14806363A	EP3024586		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-11-27
Pipe Release	Europe	01963233.0	1315882	1315882.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2021-09-29
Rotary Steerable With Harmonic Drive	Europe	02710111.2	1354120	1354120.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2022-01-23

Running And Cementing Tubing	Europe	04791579.8	1682746.00	NOV Downhole Eurasia Limited	2024-10-25
Selective Agitation	Europe	07733494.4	2038504.00	NOV Downhole Eurasia Limited	2027-07-06
Selective agitation of downhole apparatus	Europe	EP07733494A	EP2038504	NOV Downhole Eurasia Limited	2027-07-06
Selective downhole actuator	Europe	EP16706412A	EP3259437	NOV Downhole Eurasia Limited	2036-02-19
Selective downhole actuator	Europe	EP18193558A	EP3489457	NOV Downhole Eurasia Limited	2036-02-19
Selective downhole actuator	Europe	EP18193558A	EP3489457	NOV Downhole Eurasia Limited	2036-02-19
Under-reamer	Europe	EP1071716A	EP2417322	NOV Downhole Eurasia Limited	2030-04-09
Underreamer having radially extendable members	Europe	EP06765231A	EP1920132	NOV Downhole Eurasia Limited	2026-08-07
Wellbore rod inspection system and method	Europe	EP19171228A	EP3720934	NOV Downhole Eurasia Limited	2039-04-25
Selective Downhole Actuator	Germany	16706412.0	3259437	NOV Downhole Eurasia Limited	2036-02-19
Under-Reamer	Germany	10717716.4	2417322	NOV Downhole Eurasia Limited	2030-04-09
Downhole devices and associated apparatus and methods	Gulf Co-Operation Council	2018/26645		NOV Downhole Eurasia Limited	2038-12-13
Multi Cycle Downhole Tool	Gulf Co-Operation Council	GC 2014-28432	GC0011238	NOV Downhole Eurasia Limited	2034-11-27
Treatment of hydrocarbon containing materials	Malaysia	MYP2014002175A	MY171141	NOV Downhole Eurasia Limited; University Of Nottingham	2033-01-25
Downhole tool activation.	Mexico	MX2013001226A	MX346718	NOV Downhole Eurasia Limited.*	2033-01-30
Downhole tool actuator.	Mexico	MX2014004411A	MX343389	NOV Downhole Eurasia Limited	2032-10-09
Downhole tool with rotational drive coupling and associated methods.	Mexico	MX2015002506A	MX356034	NOV Downhole Eurasia Limited	2033-08-29
Orientable downhole drilling assembly and method of using same.	Mexico	MX2014015954A	MX355956	NOV Downhole Eurasia Ltd.	2033-02-28
Selective Agitation	Netherlands	07733494.4	2038504	NOV Downhole Eurasia Limited	2027-07-06
Selective Downhole Actuator	Netherlands	18193558.6	3489457	NOV Downhole Eurasia Limited	2036-02-19
Selective Downhole Actuator	Netherlands	16706412.0	3259437	NOV Downhole Eurasia Limited	2036-02-19
Under-Reamer	Netherlands	10717716.4	2417322	NOV Downhole Eurasia Limited	2030-04-09
Apparatus and method for feeding actuating medium	Norway	NO20130161A	NO20130161	NOV Downhole Eurasia Ltd	2033-01-30
Apparatus Comprising A Microwave Processing Chamber	Norway	17715989.4	3442698	NOV Downhole Eurasia Limited	2037-03-30
Cutting Element	Norway	14710379.0	2978920	NOV Downhole Eurasia Limited	2034-03-12
Device and method for actuating downhole tools	Norway	NO20130161A	NO345145	NOV Downhole Eurasia Ltd	2033-01-30
Downhole Tool	Norway	12170933.4	2532827	NOV Downhole Eurasia Limited	2030-04-09
Downhole tool	Norway	NO20201355A	NO20201355	NOV Downhole Eurasia Limited	2040-12-10
Downhole tools actuator	Norway	NO20140593A	NO20140593	NOV Downhole Eurasia Ltd	2034-05-09
Downhole vibration assembly and method of using same	Norway	NO20170751A	NO20170751	NOV Downhole Eurasia Ltd.	2037-05-08
Selective Downhole Actuator	Norway	18193558.6	3489457	NOV Downhole Eurasia Limited	2036-02-19
Selective Downhole Actuator	Norway	16706412.0	3259437	NOV Downhole Eurasia Limited	2036-02-19
Space tools and space operation for extension of a well	Norway	NO20111096A	NO340812	NOV Downhole Eurasia Ltd	2031-08-03
Selective downhole actuator	Norway	10717716.4	2417322	NOV Downhole Eurasia Limited	2030-04-09
Rotating downhole tool	Poland	PL16706412T	PL259437	NOV Downhole Eurasia Limited	2036-02-19
Cutting element	Russia	RU201730903A	RU2725214	NOV Downhole Eurasia Limited	2036-01-28
Cutting element with chamfered peripheral edge	Saudi Arabia	SAS15361240A	SAS15361240	NOV Downhole Eurasia Limited	2035-09-28
Downhole Tool	Saudi Arabia	SAS15360830A	SAS15360830	NOV Downhole Eurasia Limited	2035-07-29
Drill bit design	Saudi Arabia	S20420792	SAS15360920	NOV Downhole Eurasia Limited	2035-07-27
Apparatus comprising a microwave processing chamber	Saudi Arabia	SAS15360820A	SAS15360820	NOV Downhole Eurasia Limited	2036-02-19
Treatment of hydrocarbon containing materials	Singapore	SG1120180904VA	SG1120180904VA	NOV Downhole Eurasia Ltd	2037-03-30
Treatment of hydrocarbon containing materials	Singapore	SG11201404162VA	SG11201404162VA	NOV Downhole Eurasia Limited;	2033-01-25
Treatment of hydrocarbon containing materials	Singapore	SG10201606100QA	SG10201606100QA	University Of Nottingham	2033-01-25
Selective downhole actuator	Spain	ES16706412T	ES2698562	University Of Nottingham	2033-01-25
Agitator	United Kingdom	1114011.8	2493907	NOV Downhole Eurasia Limited	2036-02-19
Apparatus Comprising A Microwave Processing Chamber	United Kingdom	17715989.4	3442698	NOV Downhole Eurasia Limited	2037-03-30
Cutting Element	United Kingdom	14710379.0	2978920	NOV Downhole Eurasia Limited	2034-03-12
Cutting element	United Kingdom	GB201301647A	GB2510341	NOV Downhole Eurasia Limited	2033-01-30
Downhole actuation apparatus and associated methods	United Kingdom	GB201409872A	GB2526826	NOV Downhole Eurasia Limited	2034-06-03
Downhole apparatus	United Kingdom	GB201512375A	GB2540391	NOV Downhole Eurasia Limited	2035-07-15
Downhole devices and associated apparatus and methods	United Kingdom	GB201720773A	GB2569330	NOV Downhole Eurasia Limited	2037-12-13
Downhole pulse-generating apparatus	United Kingdom	GB201114011A	GB2493907	NOV Downhole Eurasia Limited	2031-08-15

Downhole Tool	United Kingdom	1809767.5	GB25174654	2574654.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2038-06-14
Downhole tool actuation	United Kingdom	GB201301554A		GB2499116	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-01-29
Downhole tool actuator	United Kingdom	GB201405956A		GB2509636	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-10-09
Downhole tool comprising an indexer	United Kingdom	GB201809767A		GB2574654	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2038-06-14
Downhole tool control	United Kingdom	GB201302981A	GB2511050	GB2487485	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-02-20
Downhole tool incorporating a reciprocating mass	United Kingdom	GB201201054A		GB250431	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-01-23
Downhole tool with drive coupling and torque limiter	United Kingdom	GB201215345A		GB2527581	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-08-29
Downhole tools and associated methods	United Kingdom	GB201908599A	GB2584681	GB2550255	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2039-06-14
Downhole under-reamer and associated methods	United Kingdom	GB201411412A		GB2545866	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-06-26
Downhole under-reamer and associated methods	United Kingdom	GB201703954A		GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-06-26
Downhole vibration assembly and method of using same	United Kingdom	GB201706345A		GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-10-16
Drill bit	United Kingdom	GB201223422A	GB201223422	GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-12-27
Drill bit	United Kingdom	GB201400252A	GB202111604	GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-01-08
Drill bit	United Kingdom	GB202111604A		GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2041-08-12
Drill bit	United Kingdom	2111604.1		GB2511411	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2041-08-12
Drill bit design	United Kingdom	GB201301536A		GB2512272	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-01-29
Drill bit, downhole tubular string and methods for operating the same	United Kingdom	GB201905808A		GB2585710	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2039-04-25
Drilling method	United Kingdom	GB0917213A	1618277	GB2464189	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2029-10-01
Hydraulic Under Reamer	United Kingdom	04729456.6		1618277.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2024-04-26
Large gauge concentric underreamer	United Kingdom	GB20131393A		GB2501043	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2031-12-29
Lockable reamer	United Kingdom	GB201013165A		GB2484453	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2030-08-05
Processing apparatus	United Kingdom	GB201606403A	GB2549313	GB2511411.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-04-13
Rotary downhole tool	United Kingdom	GB201501823A	GB2534896	GB2511411.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-02-04
Rotary Drill Bit	United Kingdom	1400252.1	2511411	2511411.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-01-08
Selective Downhole Actuator	United Kingdom	18193558.6		3489457.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-02-19
Selective Downhole Actuator	United Kingdom	16706412.0		3259437.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-02-19
Selective Downhole Actuator	United Kingdom	1502803.80		2437005.00	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2027-07-10
Valve	United Kingdom	0713289.7	2437005	US11002078	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-11-06
Apparatus for providing directional control of bore drilling equipment	United States of America	US16/069701	US20210087888	US11002078	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-11-06
Borehole cutting assembly for directional cutting	United States of America	US13/255883		US9372218	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2032-11-13
Cutter	United States of America	14/764088	US-2015-0368981-A1	10000975.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2034-12-30
Cutting element	United States of America	US14/780011		US10000976	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-09-10
Cutting element	United States of America	US14/764088		US10000973	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-12-30
Downhole actuation apparatus and associated methods	United States of America	US14/730091		US9970264	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-07-19
Downhole devices and associated apparatus and methods	United States of America	US16/772326	US20210087888		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2038-12-13
Downhole motor, drill string provided with such a motor and method of releasing a stuck drill bit attached to such a motor	United States of America	US15/526722		US10081984	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-11-11
Downhole pulse-generating apparatus	United States of America	US13/586706		US9109442	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-06-15
Downhole tool	United States of America	17/251385		US9109442	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2039-06-14
Downhole tool	United States of America	US13/955331	US-2021-0301612-A1	US9371692	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-12-05
Downhole tool	United States of America	US17/251385	US20210301612	US9482066	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2039-06-14
Downhole tool activation	United States of America	US13/754736		US9482066	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-06-24
Downhole Tool Actuator	United States of America	14/351669	US-2014-0246190	9359866.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2033-02-24
Downhole tool with rotational drive coupling and associated methods	United States of America	US14/424439		US9909367	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-09-04
Downhole under-reamer and associated methods	United States of America	US15/916694		US10294728	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-06-26
Downhole under-reamer and associated methods	United States of America	US14/752274		US9945164	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-05-01
Downhole vibration assembly and method of using same	United States of America	US15/521050		US10724303	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-11-04
Drill bit	United States of America	US14/761244		US9869131	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-11-08
Drill bit design	United States of America	US14/764083		US10628618	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-11-22
Fabrication method using foam elements, and structures fabricated using the method	United States of America	US15/741587	US-20180185916		Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2036-07-08
Large gauge concentric underreamer	United States of America	US13/977354		US9689209	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2034-06-30
Lockable reamer	United States of America	US13/198594		US8973660	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2033-03-29
Multi cycle downhole tool	United States of America	US15/100204		US10138684	Nov Downhole Eurasia Limited	Nov Downhole Eurasia Limited	2035-07-05
Multi-Cycle Drop-Ball Sub and Bypass Valve	United States of America	14/730091	US-2015-0345256-A1	9970264.00	NOV Downhole Eurasia Limited	NOV Downhole Eurasia Limited	2036-07-19

Processing apparatus	United States of America	US16/093412	US10711199	Nov Downhole Eurasia Limited	2037-03-30
Rotary downhole tool	United States of America	US15/548456	US102794119	Nov Downhole Eurasia Limited	2036-03-30
Running and cementing tubing	United States of America	US12/775153	US9337991	Nov Downhole Eurasia Limited	2024-10-25
Selective downhole actuator	United States of America	US15/557352	US10830031	Nov Downhole Eurasia Limited	2036-12-16
Under reamer	United States of America	US13/263600	US8936110	Nov Downhole Eurasia Limited	2031-04-24
Under-reamer	United States of America	US14/548161	US10024109	Nov Downhole Eurasia Limited	2031-11-01
Apparatus for downhole measurements, and methods of using same	Canada	CA2484703A	CA2484703	Nov Downhole Eurasia Limited	2024-10-14
Pdc cutters with enhanced working surfaces adjacent a cavity	Canada	CA2656913A	CA2656913	Nov Downhole Eurasia Limited	2027-06-18
Representation of whirl in fixed cutter drill bits	Canada	CA2564531A	CA2564531	Nov Downhole Eurasia Limited	2026-10-18
Rotary drill bit	Canada	CA2675194A	CA2675194	Nov Downhole Eurasia Limited	2029-08-11
Pcd cutters with enhanced working surfaces adjacent a cavity	China	CN2007780030883A	CN101506459	Nov Downhole Eurasia Limited	2027-06-17
Polycrystalline diamond (pcd) cutting tools with reinforced work surfaces adjacent to a cavity	Denmark	DK07733266T	DK2029855	Nov Downhole Eurasia Limited	2027-06-18
Expandable eccentric reamer and method of use in drilling	Europe	EP04025098A	EP1528221	Nov Downhole Eurasia Limited	2024-10-21
Pcd cutters with enhanced working surfaces adjacent a cavity	Europe	EP07733266A	EP2029855	Nov Downhole Eurasia Limited	2027-06-18
Device and method for borehole strain measurements	Germany	DE602004006933T	DE602004006933	Nov Downhole Eurasia Limited	2024-10-10
Expandable eccentric reamer and method of drilling next to a cavity	Germany	DE602004001832T	DE602004001832	Nov Downhole Eurasia Limited	2024-10-22
Pcd cutting devices with improved working surfaces next to a cavity	Germany	DE602007008094T	DE602007008094	Nov Downhole Eurasia Limited	2027-06-19
Pcd cutters with enhanced working surfaces adjacent a cavity	Mexico	MX2008016326A	MX2008016326	Nov Downhole Eurasia Limited	2028-12-18
Cutting element and method for making a cutting element	Norway	NO20085336A	NO2330011	Nov Downhole Eurasia Limited	2028-12-19
Pcd cutters with enhanced working surfaces adjacent a cavity	South Africa	ZA200810433A	ZA200810433	Nov Downhole Eurasia Limited	2028-12-10
Bonding method and component for use therein	UK	GB0718796A	GB2453135	Nov Downhole Eurasia Limited	2027-09-27
Drilling tool	UK	GB0917244A	GB2464191	Nov Downhole Eurasia Limited	2029-10-02
Drilling tool	UK	GB0917279A	GB2464194	Nov Downhole Eurasia Limited	2029-10-02
Rotary drill bit	UK	GB0815007A	GB2462813	Nov Downhole Eurasia Limited	2028-08-18
Stable rotary drill bit	UK	GB0609742A	GB2426533	Nov Downhole Eurasia Limited	2026-05-17
Representation of whirl in fixed cutter drill bits	US	US11/548706	US7457734	Nov Downhole Eurasia Limited	2027-01-31
Rotary drill bit	US	US7318492	US7318492	Nov Downhole Eurasia Limited	2026-07-07
Drilling apparatus	Australia	AU2002302794A	AU2002302794	Nov Downhole Eurasia Limited	2022-06-05
Bohrllochwerkzeug with radial exportable parts	Austria	AT04729456T	A1551491	Nov Downhole Eurasia Limited	4/26/2024
Drilling apparatus	Canada	CA2458796A	CA2458796	Nov Downhole Eurasia Limited	6/5/2022
Downhole tool having radially extendable members	Canada	CA2524189A	CA2524189	Nov Downhole Eurasia Limited	4/26/2024
Running and cementing tubing	Canada	CA2543423A	CA2543423	Nov Downhole Eurasia Limited	10/25/2024
Valve	Canada	CA2594723A	CA2594723	Nov Downhole Eurasia Limited	1/16/2026
Downhole tool	Canada	CA2617699A	CA2617699	Nov Downhole Eurasia Limited	8/7/2026
Selective agitation of downhole apparatus	Canada	CA2658162A	CA2658162	Nov Downhole Eurasia Limited	7/6/2027
Drilling method	Canada	CA2680894A	CA2680894	Nov Downhole Eurasia Limited	9/25/2029
Drilling apparatus	Canada	CA2696789A	CA2696789	Nov Downhole Eurasia Limited	6/5/2028
Under-reamer	Canada	CA2757678A	CA2757678	Nov Downhole Eurasia Limited	4/9/2030
Underreamer having radially extendable members	China	CN20068003652A	CN101278101	Nov Downhole Eurasia Limited	2026-08-06
Drilling method	China	CN200910246897A	CN101889947	Nov Downhole Eurasia Limited	2029-10-08
Downhole tool having radially extendable members	China	CN200480018785A	CN1816679	Nov Downhole Eurasia Limited	2024-04-25
Drilling apparatus	Europe	EP02730474A	EP14115064	Nov Downhole Eurasia Limited	2022-06-05
Downhole tool having radially extendable members	Europe	EP04739456A	EP1618277	Nov Downhole Eurasia Limited	4/26/2024
Running and cementing tubing	Europe	EP04791579A	EP1682746	Nov Downhole Eurasia Limited	10/25/2024
Laying and cementing pipes	Germany	DE602004027289T	DE602004027289	Nov Downhole Eurasia Limited	2024-10-26
Drilling method.	Mexico	MX2009010905A	MX2009010905	Nov Downhole Eurasia Limited	10/8/2029
Drilling apparatus and method of drilling	Norway	NO20030362A	NO328113	Nov Downhole Eurasia Limited	2023-02-04
Borehole tool with radially extendable elements	Norway	NO20055646A	NO333739	Nov Downhole Eurasia Limited	2025-11-30
Method and apparatus for inserting and cementing pipes	Norway	NO20062321A	NO335955	Nov Downhole Eurasia Limited	2026-05-22

Downhole apparatus with radially extendable elements and method of operating the same	Norway	NO20080748A	NO339746	Andergauge Ltd	Nov Downhole Eurasia Limited	2028-02-12
Valve	UK	GB0713289A	GB2437005	Andergauge Limited	Nov Downhole Eurasia Limited	7/10/2027
Downhole tool	US	US10/471982	US7166493	Andergauge Limited	Nov Downhole Eurasia Limited	11/16/2022
Drilling apparatus with percussive action cutter	US	US11/691151	US7461706	Andergauge Limited	Nov Downhole Eurasia Limited	8/31/2024
Downhole tool having radially extendable members	US	US10/554823	US7703553	Andergauge Limited	Nov Downhole Eurasia Limited	8/28/2025
Expandable reamer	US	US11/997446	US7823663	Andergauge Limited	Nov Downhole Eurasia Limited	8/2/2027
Method of controlling flow through a drill string	US	US12/775716	US8069926	Andergauge Limited	Nov Downhole Eurasia Limited	1/16/2026
Flow diverter	US	US11/573523	US8251144	Andergauge Limited	Nov Downhole Eurasia Limited	11/18/2026

**EXHIBIT C**

**EXCLUDED INTELLECTUAL PROPERTY RIGHTS**

**[See attached.]**

## EXHIBIT D

### MEMORANDUM OF TRADEMARK ASSIGNMENT

This Trademark Assignment from:

(a) **NOV International Holdings C.V.**, a private company with limited liability organized and existing under the laws of the Netherlands and registered with the Trade Register of the Chamber of Commerce under number 72186399, represented by its general partner, NOV International Holdings GP LLC, a Delaware limited liability company (“Assignor”); and

to:

(b) **Grant Prideco, Inc.**, a Delaware corporation (“Assignee”).

is effective March 27, 2022.

### RECITALS

- A. Assignor owns the registered trademarks set forth in the attached **Appendix A** (the “Marks”); and
- B. Assignee desires to acquire Assignor’s right, title, and interest in and to the Marks.

### ASSIGNMENT

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor irrevocably assigns to Assignee all rights, title, and interest in and to the Marks, the goodwill of the business associated with the Marks, and the corresponding trademark registrations.

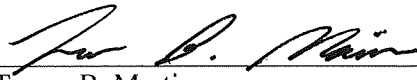
*[Signature page follows.]*

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

**ASSIGNOR:**

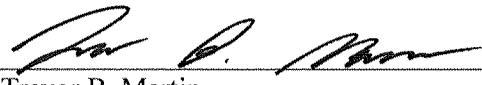
**NOV INTERNATIONAL HOLDINGS C.V.**

BY: NOV International Holdings GP LLC, its General Partner

By:   
Name: Trevor B. Martin  
Title: Manager

**ASSIGNEE:**

**GRANT PRIDECO, INC.**

By:   
Name: Trevor B. Martin  
Title: Vice President



**EXHIBIT E**

**MEMORANDUM OF PATENT ASSIGNMENT**

This Patent Assignment from:

(a) **NOV International Holdings C.V.**, a private company with limited liability organized and existing under the laws of the Netherlands and registered with the Trade Register of the Chamber of Commerce under number 72186399, represented by its general partner, NOV International Holdings GP LLC, a Delaware limited liability company (“Assignor”); and

to:

(b) **Grant Prideco, Inc.**, a Delaware corporation (“Assignee”).

is effective March 27, 2022.

**RECITALS**

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

**ASSIGNMENT**

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor irrevocably assigns to Assignee all rights, title, and interest in and to the Patents, as well as all patents to grant therefrom and later-filed, related patent applications, including divisional, continuation, and continuation-in-part applications.


*[Signature page follows.]*

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

**ASSIGNOR:**


**NOV INTERNATIONAL HOLDINGS C.V.**

BY: NOV International Holdings GP LLC, its General Partner

By:   
Name: Trevor B. Martin  
Title: Manager

**ASSIGNEE:**

**GRANT PRIDECO, INC.**

By:   
Name: Trevor B. Martin  
Title: Vice President

**SCHEDULE**

Mark

Reg. No.

CEC

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