

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

ETAS ID: TM307126

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
Credit Suisse AG, Cayman Islands Branch, as collateral agent		05/21/2014	Public Limited Company/AG: SWITZERLAND
RECEIVING PARTY DATA			
Name:	VAREL INTERNATIONAL IND., L.P. composed of Varel GP Newco, LLC, as general partner/Varel Holdings, LLC as sole member		
Street Address:	1625 W. CROSBY ROAD, SUITE 124		
City:	CARROLLTON		
State/Country:	TEXAS		
Postal Code:	75006		
Entity Type:	LIMITED PARTNERSHIP: DELAWARE		
PROPERTY NUMBERS Total: 25			
Property Type	Number	Word Mark	
Registration Number:	2716371	CHALLENGER	
Registration Number:	3247874	RIDGEBACK	
Registration Number:	3555681	V VAREL INTERNATIONAL	
Registration Number:	1511551	VAREL	
Registration Number:	3696231	DEDICATED TO DRILL BITS	
Registration Number:	1540144	WALKER MCDONALD WM BITS	
Registration Number:	3781470	A FORCE	
Registration Number:	4175804	TARGET	
Registration Number:	3793413	COMPASS	
Registration Number:	4222067	VULCAN	
Registration Number:	4186943	THOR	
Registration Number:	3854441	DIAMOND EDGE	
Registration Number:	4210242	HIGH ROLLER	
Serial Number:	85427262	SUPERLEACH	
Serial Number:	85427286	EXTRALEACH	
Serial Number:	85427273	ULTRADEEP	
Serial Number:	85427279	SUPERDEEP	
Serial Number:	85427251	DEEPLAACH	
TRADEMARK			

CH \$640.00 2716371

Property Type	Number	Word Mark
Serial Number:	85427258	ULTRALEACH
Serial Number:	85427302	TOTALLEACH
Serial Number:	76711128	EDGEGUARD
Serial Number:	76711129	VOYAGER
Serial Number:	76711606	RAIDER
Serial Number:	76711724	AVENGER
Serial Number:	76712411	KATANA

CORRESPONDENCE DATA

Fax Number: 2027393001

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-739-5652

Email: chowell@morganlewis.com

Correspondent Name: Catherine R. Howell, Senior Paralegal

Address Line 1: 1111 Pennsylvania Ave., N.W.

Address Line 2: Morgan, Lewis & Bockius LLP

Address Line 4: Washington, D.C. 20004

ATTORNEY DOCKET NUMBER:	042866-0399
NAME OF SUBMITTER:	Catherine R. Howell, Senior Paralegal
SIGNATURE:	/Catherine R. Howell/
DATE SIGNED:	06/10/2014

Total Attachments: 24

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**CONFIRMATION OF RELEASE OF SECURITY INTEREST IN INTELLECTUAL
PROPERTY**

This Confirmation of Release of Security Interest in Intellectual Property (this "**Confirmation of Release**") is made effective as of May 21, 2014 by Credit Suisse AG, Cayman Islands Branch (the "**Collateral Agent**"), as collateral agent for the Secured Parties (such term and any other capitalized term used but not defined herein is used herein as defined in the Collateral Agreement, the Lease Agreement or Murabaha Agreement, each as defined below), to Varel International Ind., L.P., a Delaware limited partnership (the "**Grantor**"), as follows:

WHEREAS, Grantor, Varel International Energy Services, Inc., a Delaware corporation ("**VIES**"), Varel International Energy Funding Corp., a Delaware corporation ("**Funding**"), and Credit Suisse AG, Cayman Islands Branch, as collateral agent (the "**Lease Agent**") for the benefit of Funding Corp., entered into that certain Registered Lease and License Financing and Purchase Option Agreement, dated as of January 15, 2013 (as heretofore amended, restated, supplemented or otherwise modified from time to time, the "**Lease Agreement**");

WHEREAS, VIES, Grantor, Funding, Credit Suisse AG, Cayman Islands Branch, as collateral agent for Funding Corp. (the "**Commodities Facility Agent**" and, together with the Lease Agent, the "**Collateral Agent**"), Arcapita Investment Funding Limited, a Cayman Islands exempted company with limited liability, and AIA Limited, a Cayman Islands exempted company with limited liability, entered into that certain Working Capital Murabaha Facility Agreement, dated as of January 15, 2013 (as heretofore amended, restated, supplemented or otherwise modified from time to time, the "**Murabaha Agreement**");

WHEREAS, to provide security for the Varel Obligations (as defined in the Lease Agreement), Grantor and certain of its Subsidiaries (collectively, the "**Varel Security Parties**") entered into that certain Varel Collateral Agreement, dated as of January 15, 2013 (as heretofore amended, restated, supplemented or otherwise modified from time to time, the "**Collateral Agreement**"), pursuant to which the Varel Security Parties granted to a continuing security interest in, among other property, all of the Varel Security Parties' right, title and interest, including goodwill, in, to and under the intellectual property rights listed on Schedule A hereto (the "**Intellectual Property**");

WHEREAS, pursuant to the terms of the Collateral Agreement, Grantor executed each of the following documents in favor of Collateral Agent for the benefit of the Secured Parties: (i) that certain Patent Security Agreement, dated as of January 15, 2013 (the "**Patent Security Agreement**"), (ii) that certain Trademark Security Agreement, dated as of January 15, 2013 (the "**Trademark Security Agreement**"), (iii) that certain Confirmation of Trademark Security Interest (Italy), dated as of February 13, 2013 (the "**Confirmation of Trademark Security Interest (Italy)**"), and (iv) that certain Confirmation of Trademark Security Interest (Venezuela), dated as of February 13, 2013 (the "**Confirmation of Trademark Security Interest (Venezuela)**"), and together with the Patent Security Agreement, the Trademark Security Agreement and the Confirmation of Trademark Security Interest (Italy), collectively the "**IP Security Documents**";

WHEREAS, the Patent Security Agreement was recorded in the United States Patent & Trademark Office on January 23, 2013, at reel/frame 029682/0024 with respect to U.S. patents and patent applications;

WHEREAS, the Trademark Security Agreement was recorded in the United States Patent & Trademark Office on January 22, 2013, at reel/frame 4947/0035 with respect to U.S. trademarks and trademark applications;

WHEREAS, the Confirmation of Trademark Security Interest (Italy) was recorded in the Italian Patent and Trademark Office on March 29, 2013 under number TO2013R000599 (in respect of Italian trademark registration originally assigned registration 884259 and renewed registration No. 1300259 – registered owner Varel International Ind., L.P.);

WHEREAS, the Confirmation of Trademark Security Interest (Venezuela) was recorded in the Venezuelan Patent and Trademark Office on March 20, 2013 under number 023295 (in respect of Venezuelan trademark registration No. F-169729); and

WHEREAS, on May 21, 2014, (i) all of the outstanding Varel Obligations under the Lease Agreement and Murabaha Agreement were repaid in full and (ii) Collateral Agent has terminated and released all of its security interest in the Intellectual Property, in each case, pursuant and subject to a Termination Letter dated the date hereof and is willing to further evidence such termination and release by executing this Confirmation of Release;

NOW THEREFORE, in consideration of the repayment in full of the outstanding Varel Obligations under the Lease Agreement, Murabaha Agreement and the other Varel Documents on May 21, 2014 as provided above and for other good and valuable consideration, the receipt of which is hereby acknowledged, Collateral Agent hereby confirms the release, at Grantor's sole cost and expense, of all Collateral Agent's right, title and interest in and to the Intellectual Property, including its security interest in and lien upon the Intellectual Property granted under the IP Security Documents, in each case without recourse to or warranty by Collateral Agent or any Secured Party.

Collateral Agent agrees, at Grantor's expense, to cooperate with Grantor and to provide Grantor with the information and additional authorization reasonably required or desirable to effect the release of Collateral Agent's right, title and interest in and to the released collateral described herein, it being understood that such cooperation includes, without limitation, Collateral Agent's execution and delivery of any documents that Grantor may reasonably request in order for Grantor to register such release with the applicable national or international patent and trademark authorities.

This Confirmation of Release and the rights and obligations of the parties hereto shall be governed by, and construed and interpreted in accordance with, the laws of the State of New York.

This Confirmation of Release may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original but all of which when taken together shall constitute a single contract. Delivery of an executed signature page to this Confirmation of Release by facsimile or electronic mail transmission shall be as effective as delivery of a manually signed counterpart of this Confirmation of Release.

[signature pages follow]

IN WITNESS WHEREOF, Collateral Agent has caused this Confirmation of Release of Security Interest in Intellectual Property to be executed by its duly authorized officers.

CREDIT SUISSE AG, CAYMAN ISLANDS
BRANCH

By: [Signature]
Name: JOHN D. TORONTO
Title: AUTHORIZED SIGNATORY

By: [Signature]
Name: WHITNEY GASTON
Title: AUTHORIZED SIGNATORY

STATE OF NEW YORK

NEW YORK COUNTY)

I, the undersigned, a Notary Public in and for said County in said State, hereby certify that JOHN D. TORONTO, who is known to me, or acknowledged before me on this day that, being informed of the contents of this instrument, he/she as such officer, and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand and seal of office this 19th day of May 2014.

[Signature]
Notary Public

MARJORIE E. BULL
Notary Public, State of New York
No. 01BU6055282
Qualified in New York County
Commission Expires February 20, 2015

(Notary Seal)

STATE OF NEW YORK

NEW YORK COUNTY)

I, the undersigned, a Notary Public in and for said County in said State, hereby certify that WHITNEY GASTON, who is known to me, or acknowledged before me on this day that, being informed of the contents of this instrument, he/she as such officer, and with full authority, executed the same voluntarily for and as the act of said corporation.

Given under my hand and seal of office this 19th day of May 2014.

[Signature]
Notary Public

MARJORIE E. BULL
Notary Public, State of New York
No. 01BU6055282
Qualified in New York County
Commission Expires February 20, 2015

(Notary Seal)

IN WITNESS WHEREOF, Grantor has caused this Confirmation of Release of Security Interest in Intellectual Property to be executed by its duly authorized officers.

VAREL INTERNATIONAL IND., L.P.

By: Varel GP Newco, LLC, its general partner

By: Varel Holdings, LLC, its sole member

By: _____

Name: James U. Nixon
Title: President and CEO

STATE OF Texas)

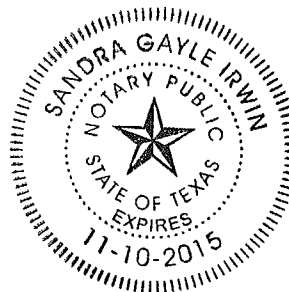
Dallas COUNTY)

I, the undersigned, a Notary Public in and for said County in said State, hereby certify that James U. Nixon, who is known to me, or acknowledged before me on this day that, being informed of the contents of this instrument, he/she as such officer, and with full authority, executed the same voluntarily for and as the act of said company.

Given under my hand and seal of office this 15th day of May 2014.

Sandra Gayle Irwin
Notary Public

(Notary Seal)



SCHEDULE A

PATENT AND PATENT APPLICATIONS

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Bearing seal	United States	11/13/2002 / 01/04/2005	10/294056 / 6837317	11/13/2022
Varel International Ind., L.P.	Bearing seal	United States	12/20/2004 / 02/21/2006	11/019706 / 7000712	11/13/2022
Varel International Ind., L.P.	Breakable washer earth boring bit	United States	11/13/2002 / 05/17/2005	10/294110 / 6892832	11/13/2022
Varel International Ind., L.P.	Drag-type casing mill/drill bit	United States	03/02/2001 / 05/27/2003	09/798171 / 6568492	04/19/2021
Varel International Ind., L.P.	Drill out bi-center bit and method for using same	United States	03/26/2003 / 08/09/2005	10/397566 / 6926099	03/26/2023
Varel International Ind., L.P.	High-energy cascading of abrasive wear components	United States	09/09/2003 / 08/21/2007	10/657896 / 7258833	12/25/2024
Varel International Ind., L.P.	Low-contact area cutting element	United States	01/30/2003 / 06/14/2005	10/355674 / 6904983	01/30/2023
Varel International Ind., L.P.	Rock bit with improved thrust face	United States	06/19/1997 / 08/31/1999	08/878622 / 5944125	06/19/2017
Varel International Ind., L.P.	Rotary cone bit for cutting removal	United States	09/25/2000 / 09/17/2002	09/669998 / 6450270	09/25/2020
Varel International Ind., L.P.	Spiral wave bladed drag bit	United States	09/04/2002 / 12/28/2004	10/235690 / 6834733	09/04/2022
Varel International Ind., L.P.	Superabrasive cutting element	United States	02/05/2001 / 12/03/2002	09/777295 / 6488106	02/05/2021
Varel International Ind., L.P.	Conical sealing surface	United States	06/26/2008 / 05/25/2010	12/147238 / 7721827	6/27/2028
Varel International Ind., L.P.	Drill bit with multiple cutter geometries	United States	04/18/2006 / 03/16/2010	11/406470 / 7677333	10/30/2026
Varel International Ind., L.P.	Single Mold Milling Process for Fabrication of Rotary Bits to Include Necessary Features Utilized for Fabrication in Said Process	United States	07/25/2008	12/180276	
Varel International Ind., L.P.	Process for the production of an element comprising at least one block of dense material constituted by hard particles dispersed in a binder phase: application to cutting or drilling tools	United States	03/27/2008	12/056595	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Process for Manufacturing a Part Comprising a Block of Dense Material Constituted of Hard Particles and of Binder Phase Having a Gradient of Properties, and Resulting Part	United States	10/07/2009	13/121366	
Varel International Ind., L.P.	Process for the production of a thermally stable polycrystalline diamond compact	United States	10/15/2008	12/252145	
Varel International Ind., L.P.	Rock bit with a thermal insulating seal ring positioned in the seal gland	United States	10/15/2008 / 11/16/2010	12/252252 / 7832505	10/15/2028
Varel International Ind., L.P.	Impregnated rotary bit	United States	12/02/2008 / 02/21/2012	12/326757 / 8118119	02/21/2030
Varel International Ind., L.P.	Texturing of the seal surface for a roller cone rock bit	United States	03/06/2009	12/399171	Allowed
Varel International Ind., L.P.	Texturing of the bearing surface for a roller cone rock bit	United States	03/05/2009	12/398730	
Varel International Ind., L.P.	Casing bit and casing reamer designs	United States	06/03/2010	12/793489	
Varel International L.P.	Multi set PDC drill bit and method	United States	12/11/2009	12/636506	
Varel International Ind., L.P.	Drill bit supporting multiple cutter elements with multiple cutter geometries and method of assembly	United States	02/18/2010 / 02/07/2012	12/708003 / 8109346	04/18/2026
Varel International Ind., L.P.	Polycrystalline diamond cutter with high thermal conductivity	United States	03/02/2010	12/716251	Allowed

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Backfilled poly crystalline diamond cutter with high thermal conductivity	United States	03/02/2010	12/716208	
Varel International Ind., L.P.	Rock bit having a seal gland with a conical sealing surface	United States	04/09/2010	12/757959	
Varel International Ind., L.P.	Milling Cap for Polycrystalline Diamond Compact Cutter	United States	5/25/2010	12/787349	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	United States	5/27/2010	12/789416	Allowed
Varel International Ind., L.P.	Method To Determine Rock Properties From Drilling Logs	United States	01/23/2009 / 12/20/2011	12/359,065 / 8,082,104	04/10/2030
Varel International Ind., L.P.	Sectorial Force Balancing Of Drill Bits	United States	03/06/2009	12/399,478	
Varel International Ind., L.P.	Self Positioning Cutter And Pocket	United States	05/26/2009 / 03/13/2012	12/472,003 / 8,132,633	03/06/2030
Varel International Ind., L.P.	High Energy Treatment Of Cutter Substrates Having A Wear Resistant Layer	United States	09/09/2009 / 08/28/2012	12/555,947 / 8,252,226	07/01/2030
Varel International Ind., L.P.	Force Balanced Asymmetric Drilling Reamer and Methods for Force Balancing	United States	08/14/2009 / 04/24/2012	12/541,591 / 8,162,081	07/09/2030
Varel International Ind., L.P.	Auto Adaptable Cutting Structure	United States	06/04/2010 / 06/05/2012	12/794,640 / 8,191,656	
Varel International Ind., L.P.	Acoustic Emission Toughness Testing Having Smaller Noise Ratio	United States	06/02/2011	13/152,126	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Ultrasound Assisted Electrochemical Catalyst Removal For Superhard Materials	United States	06/26/2012	13/533,282	
Varel International Ind., L.P.	Alloys With Low Coefficient of Thermal Expansion As PDC Catalysts And Binders	United States	07/11/2011	13/180,414	
Varel International Ind., L.P.	PDC Disc Cutters And Rotary Drill Bits Utilizing PDC Disc Cutters	United States	07/13/2012	13/548,449	
Varel International Ind., L.P.	Patterned Texturing of the Seal Surface for a Roller Cone Rock Bit	United States	7/28/2010	12/845451	
Varel International Ind., L.P.	Attachment Of Thermally Stable Polycrystalline To A Substrate And Compacts Constructed	United States	09/19/2012	13/622,963	
Varel International Ind., L.P.	Thermal- Mechanical Wear Testing For PDC Shear Cutters	United States	09/19/2012	13/622,859	
Varel International Ind., L.P.	Use Of Tungsten Carbide Tube Rod To Hard-Face PDC Matrix	United States	10/11/2012	13/649,830	
Varel International Ind., L.P.	Use Of Capacitance To Analyze Polycrystalline Diamond	United States	02/21/2012	13/401,188	
Varel International Ind., L.P.	Use Of Eddy Currents To Analyze Polycrystalline Diamond	United States	02/21/2012	13/401,231	
Varel International Ind., L.P.	Use Of Capacitance And Eddy Currents To Analyze Polycrystalline Diamond	United States	02/21/2012	13/401,335	
Varel International Ind., L.P.	Method To Improve The Performance Of A Leached Cutter	United States	02/21/2012	13/401,452	
Varel International Ind., L.P.	Method To Improve The Leaching Process	United States	03/23/2012	13/428,635	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	High Temperature High Heating Rate Treatment of PDC Cutters	United States	04/05/2012	13/440,868	
Varel International Ind., L.P.	Bit Selection Using Bit Fleet Management	United States	04/27/2012	13/458,480	
Varel International Ind., L.P.	Method And Apparatus To Improve The Performance Of A Leached Cutter	United States	05/29/2012	13/482,285	
Varel International Ind., L.P.	Leached Cutter And Method For Improving The Leaching Process	United States	05/29/2012	13/482,322	
Varel International Ind., L.P.	High Energy Treatment Of Cutter Substrates Having A Wear Resistant Layer	United States	07/27/2012	13/560,868	
Varel International Ind., L.P.	Anti-Balling Coating On Drill Bits And Downhole Tools	United States	10/15/2012	13/652,148	
Varel International Ind., L.P.	Rock Bit With a Thermal Insulating Seal Ring Positioned in the Seal Gland	United States	08/27/2010 / 7/5/2011	12/870471 / 7971660	10/15/2028
Varel International Ind., L.P.	Shoulder Durability Enhancement for a PDC Drill Bit Using Secondary and Tertiary Cutting Elements	United States	12/6/2010	12/960926	
Varel International Ind., L.P.	Method and Apparatus for Reducing Lubricant Pressure Pulsation Within a Rotary Cone Rock Bit	United States	1/28/2011	13/016399	
Varel International Ind., L.P.	Method and Apparatus for Reducing Lubricant Pressure Pulsation Within a Rotary Cone Rock Bit	United States	1/28/2011	13/016535	
Varel International Ind., L.P.	Wear Resistant Material at the Shirttail Edge and Leading Edge of a Rotary Cone Drill Bit	United States	10/1/2010	12/896406	
Varel International Ind., L.P.	Wear Resistant Material for the Shirttail Outer Surface of a Rotary Cone Drill Bit	United States	10/1/2010	12/896484	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Semi-Sealed Blast Hole Bit and Method for Drilling	United States	12/22/2010	12/976789	
Varel International Ind., L.P.	Rock Bit Having a Mechanical Seal With Superior Thermal Performance	United States	3/11/2011	13/046328	
Varel International Ind., L.P.	Impregnated Rotary Bit	United States	5/2/2011 / 07/03/2012	13/098906 / 8,210,286	
Varel International Ind., L.P.	Casing End Tool	United States	4/27/2011	13/095746	
Varel International Ind., L.P.	Wear Resistant Material at the Leading Edge of the Leg for a Rotary Cone Drill Bit	United States	6/9/2011	13/156458	
Varel International Ind., L.P.	Rock Bit Having a Labyrinth Seal/Bearing Protection Structure	United States	7/18/2011	13/185345	
Varel International Ind., L.P.	Texturing of the Seal Surface for a Roller Cone Rock Bit	United States	6/30/2011	13/173720	Allowed
Varel International Ind., L.P.	Impregnated Rotary Bit	United States	7/26/2011 / 06/12/2012	13/190822 / 8,196,683	
Varel International Ind., L.P.	Downhole Tool Retainer And Guide Ring	United States	12/14/2011	61/570,771	
Varel International Ind., L.P.	PCD Cutters With Improved Impact Strength And Thermal Stability	United States	06/13/2012	61/659,056	
Varel International Ind., L.P.	Methods To Repair Worn Or Eroded PDC Cutters, Cutters So Repaired, And Use Of Repaired PDC Cutters In Drill Bits Or Other Tools	United States	06/22/2012	61/663,205	
Varel International Ind., L.P.	Machined High Angle Nozzle Sockets For Steel Body Bits	United States	10/02/2012	61/708,982	
Varel International Ind., L.P.	Flow Through Gauge For Drill Bit	United States	10/02/2012	61/709,063	
Varel International Ind., L.P.	Blade Flow PDC Bits	United States	10/02/2012	61/709,070	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Protective Inserts for Roller Cone Bit	United States	08/17/2012	13/588,575	
Varel International Ind., L.P.	Method for Repairing Cutter Pockets of a Drill Bit	United States	02/15/2012	61/599239	
Varel International Ind., L.P.	Enhanced Evacuation Roller Cone Bit	United States	03/29/2012	13/434,853	
Varel International Ind., L.P.	Impregnated Diamond Structure, Method Of Making Same, And Applications For Use Of An Impregnated Diamond Structure	United States	06/08/2012	13/491762	
Varel International Ind., L.P.	New Process of Building 3D Texturized Impregnated Bit (3DT) Featuring Full Freedom Of Diamond Distribution, Grades And Diameters Along The X, Y, And Z Of A Bit Or Cell	United States	06/08/2012	13/491798	
Varel International Ind., L.P.	High-energy cascading of abrasive wear components	Australia	09/09/2004 / 06/18/2010	2004271209 / 2004271209	09/09/2024
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	Australia	05/27/2010	2010253851	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	Australia	06/03/2010	2010256521	
Varel International Ind., L.P.	Semi-Sealed Blast Hole Bit and Method for Drilling	Australia	10/04/2011	2011229694	
Varel International Ind., L.P.	High-energy cascading of abrasive wear components	Canada	09/09/2004	2555589	
Varel International Ind., L.P.	Method To Determine Rock Properties From Drilling Logs	Canada	02/06/2009	2,653,115	
Varel International Ind., L.P.	Rock Bit Having a Mechanical Seal With Superior Thermal Performance	Canada	4/6/2011	2736432	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	Canada	05/27/2010	2753854	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	Canada	05/28/2010	2753856	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	Canada	06/03/2010	2755564	
Varel International Ind., L.P.	Self Positioning Cutter And Pocket	Canada	03/31/2010	2758070	
Varel International Ind., L.P.	Texturing of the Seal Surface for a Roller Cone Rock Bit	China	3/12/2009	200980117550.9	
Varel International Ind., L.P.	Texturing of the bearing surface for a roller cone rock bit	China	3/12/2009	200980117549.6	
Varel International Ind., L.P.	Patterned Texturing of the seal surface for a roller cone rock bit	China	5/30/2011	201110151879.6	
Varel International Ind., L.P.	Backfilled polycrystalline diamond cutter with high thermal conductivity	China	03/26/2010	201080012177.3	
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	China	05/27/2010	201080016886.9	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	China	05/28/2010	201080016875.0	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	China	06/03/2010	201080019941.x	
Varel International Ind., L.P.	Protective Inserts For Roller Cone Bit	China	09/27/2012	Not Yet Available	
Varel International Ind., L.P.	Protective Inserts For Roller Cone Bit	India	09/10/2012	2613/MUM/2012	
Varel International Ind., L.P.	Alloys With Low Coefficient of Thermal Expansion As PDC Catalysts And Binders	PCT	07/11/2011	PCT/US2011/043589	Nationalize before January 14, 2013


Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	PDC Disc Cutters And Rotary Drill Bits Utilizing PDC Disc Cutters	PCT	07/13/2012	PCT/US2012/046628	Nationalize before January 13, 2014
Varel International Ind., L.P.	Ultrasound Assisted Electrochemical Catalyst Removal For Superhard Materials	PCT	06/26/2012	PCT/US2012/044175	Nationalize before December 28, 2013
Varel International Ind., L.P.	Acoustic Emission Toughness Testing Having Smaller Noise Ratio	PCT	05/10/2012	PCT/US2012/037271	Nationalize before December 2, 2013
Varel International Ind., L.P.	Use Of Tungsten Carbide Tube Rod To Hard-Face PDC Matrix	PCT	10/11/2012	PCT/US2012/059775	Nationalize before April 14, 2014
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	PCT	5/27/2010	PCT/US2010/036466	Nationalize before November 29, 2012
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	PCT	5/28/2010	PCT/US2010/036668	Nationalize before November 29, 2012
Varel International Ind., L.P.	Wear Resistant Material at the Shirttail Edge and Leading Edge of a Rotary Cone Drill Bit	PCT	09/30/2011	PCT/US2011/054132	
Varel International Ind., L.P.	Wear Resistant Material for the Shirttail Outer Surface of a Rotary Cone Drill Bit	PCT	09/22/2011	PCT/US2011/052714	
Varel International Ind., L.P.	Shoulder Durability Enhancement for a PDC Drill Bit Using Secondary and Tertiary Cutting Elements	PCT	09/09/2011	PCT/US2011/050936	
Varel International Ind., L.P.	Method and Apparatus for Reducing Lubricant Pressure Pulsation Within a Rotary Cone Rock Bit	PCT	11/03/2011	PCT/US2011/059189	
Varel International Ind., L.P.	Method and Apparatus for Reducing Lubricant Pressure Pulsation Within a Rotary Cone Rock Bit	PCT	11/03/2011	PCT/US2011/059187	
Varel International Ind., L.P.	Casing End Tool	PCT	04/13/2012	PCT/US2012/033460	

Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Rock Bit Having A Labyrinth Seal/Bearing Protection Structure	PCT	05/11/2012	PCT/US2012/037553	
Varel International Ind., L.P.	Self Positioning Cutter And Pocket	Russian Federation	03/31/2010	2010144800	
Varel International Ind., L.P.	Texturing of the seal surface for a roller cone rock bit	Russian Federation	3/12/2009	2010141888	
Varel International Ind., L.P.	Texturing of the bearing surface for a roller cone rock bit	Russian Federation	3/12/2009	2010141887	
Varel International Ind., L.P.	Process for the production of a thermally stable polycrystalline diamond compact	Russian Federation	10/13/2009	2011105118	
Varel International Ind., L.P.	Multiset PDC	Russian Federation	12/17/2009	2011107309	
Varel International Ind., L.P.	Polycrystalline diamond cutter with high thermal conductivity	Russian Federation	3/26/2010	2011107307	
Varel International Ind., L.P.	Backfilled polycrystalline diamond cutter with high thermal conductivity	Russian Federation	3/26/2011	2011118924	
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	Russian Federation	5/27/2010	2011126706	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	Russian Federation	5/28/2010	2011133942	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	Russian Federation	6/3/2010	2011139595	
Varel International Ind., L.P.	Rock Bit Having a Mechanical Seal With Superior Thermal Performance	Russian Federation	5/3/2011	2011117109	
Varel International Ind., L.P.	Patterned Texturing of the seal surface for a roller cone rock bit	Russian Federation	5/30/2011	2011121468	
Varel International Ind., L.P.	Shoulder Durability Enhancement for a PDC Drill Bit Using Secondary and Tertiary Cutting Elements	Russian Federation	11/03/2011	2011144516	


Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Rock Bit Having A Labyrinth Seal/Bearing Protection Structure	Russian Federation	06/18/2012	2012125096	
Varel International Ind., L.P.	Protective Inserts For Roller Cone Bit	Russian Federation	09/27/2012	2012141249	
Varel International Ind., L.P.	Texturing of the seal surface for a roller cone rock bit	Singapore	3/12/2009	201006656-1	
Varel International Ind., L.P.	Texturing of the bearing surface for a roller cone rock bit	Singapore	3/12/2009	201006654-6	
Varel International Ind., L.P.	Rock Bit Having a Mechanical Seal With Superior Thermal Performance	Singapore	4/11/2011	201102553-3	
Varel International Ind., L.P.	Patterned Texturing of the seal surface for a roller cone rock bit	Singapore	5/16/2011	201103512-8	
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	Singapore	05/27/2010	201106247-8	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	Singapore	05/28/2010	201106248-6	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	Singapore	06/03/2010	201107571-0	
Varel International Ind., L.P.	High-energy cascading of abrasive wear components	South Africa	09/09/2004 / 06/25/2008	200602914 / 200602914	09/09/2024
Varel International Ind., L.P.	Backfilled polycrystalline diamond cutter with high thermal conductivity	South Africa	03/26/2010	201106139	Allowed
Varel International Ind., L.P.	Semi-Sealed Blast Hole Bit and Method for Drilling	South Africa	10/19/2011	201107669	Allowed
Varel International Ind., L.P.	Improved rotary cone bit for cutting removal	Sweden	09/21/2000 / 06/22/04	3365.4 / 3365.4	09/21/2020
Varel International Ind., L.P.	Multi-Set PDC Drill Bit and Method	United Kingdom	12/17/2009	1103488.1	
Varel International Ind., L.P.	High-energy cascading of abrasive wear components	European Patent Office	09/09/2004	04783546.7	
Varel International Ind., L.P.	Self Positioning Cutter And Pocket	European Patent Office	03/31/2010	10762202.9	






Entity Name	Title	Country	Filing Date / Grant Date	Application No. / Registration No.	Status/Expiration Date
Varel International Ind., L.P.	Backfilled polycrystalline diamond cutter with high thermal conductivity	European Patent Office	03/26/2010	10756899.0	
Varel International Ind., L.P.	Polycrystalline diamond cutter with high thermal conductivity	European Patent Office	03/26/2010	10756900.6	
Varel International Ind., L.P.	Milling Cap for a Polycrystalline Diamond Compact Cutter	European Patent Office	05/27/2010	10781237.2	
Varel International Ind., L.P.	Whipstock Attachment to a Fixed Cutter Drilling or Milling Bit	European Patent Office	05/28/2010	10781315.6	
Varel International Ind., L.P.	Casing Bit and Casing Reamer Designs	European Patent Office	06/03/2010	10784132.2	
Varel International Ind., L.P.	Thermal-Mechanical Wear Testing For PDC Shear Cutters	European Patent Office	09/19/2012	12184971.5	





TRADEMARK REGISTRATIONS AND APPLICATIONS

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	United States	CHALLENGER	(F) 05/29/2001 (G) 05/13/2003		Reg. 2,716,371
Varel International Ind., L.P.	United States	RIDGEBACK	(F) 08/07/2001 (G) 05/29/2007		Reg. 3,247,874
Varel International Ind., L.P.	United States	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 06/14/2007 (G) 01/06/2009		Reg. 3555681
Varel International Ind., L.P.	United States	VAREL	(F) 04/27/1988 (G) 11/08/1988 (renewed on 11/08/2008)		Reg. 1,511,551
Varel International Ind., L.P.	United States	DEDICATED TO DRILL BITS	(F) 08/07/2007 (G) 10/13/2009		Reg. 3696231

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	United States	WALKER McDONALD WM BITS (& DESIGN)	(F) 09/15/1988 (G) 05/23/1989 (renewed on 05/23/2009)		Reg. 1,540,144
Varel International Ind., L.P.	United States	A FORCE	(F) 11/24/2008 (G) 04/27/2010		Reg. 3781470
Varel International Ind., L.P.	United States	TARGET	(F) 11/24/2008 (G) 07/17/2012		Reg. 4175804
Varel International Ind., L.P.	United States	COMPASS	(F) 01/12/2009 (G) 05/25/2010		Reg. 3793413
Varel International Ind., L.P.	United States	VULCAN	(F) 12/08/2009 (G) 10/09/2012		Reg. 4222067
Varel International Ind., L.P.	United States	THOR	(F) 12/08/2009 (G) 08/07/2012		Reg. 4186943
Varel International Ind., L.P.	United States	DIAMOND EDGE	(F) 01/14/2009 (G) 09/28/2010		Reg. 3854441
Varel International Ind., L.P.	United States	HIGH ROLLER	(F) 04/26/2011 (G) 09/18/2012		Reg. 4210242
Varel International Ind., L.P.	United States	SUPERLEACH	(F) 09/20/2011		Ser. 85/427262
Varel International Ind., L.P.	United States	EXTRALEACH	(F) 09/20/2011		Ser. 85/427286
Varel International Ind., L.P.	United States	ULTRADEEP	(F) 09/20/2011		Ser. 85/427273
Varel International Ind., L.P.	United States	SUPERDEEP	(F) 09/20/2011		Ser. 85/427279
Varel International Ind., L.P.	United States	DEEPLAACH	(F) 09/20/2011		Ser. 85/427251
Varel International Ind., L.P.	United States	ULTRALEACH	(F) 09/20/2011		Ser. 85/427258
Varel International Ind., L.P.	United States	TOTALLEACH	(F) 09/20/2011		Ser. 85/427302
Varel International Ind., L.P.	United States	EDGEGUARD	(F) 04/06/2012		Ser. 76/711128

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	United States	VOYAGER	(F) 04/06/2012		Ser. 76/711129
Varel International Ind., L.P.	United States	RAIDER	(F) 05/29/2012		Ser. 76/711606
Varel International Ind., L.P.	United States	AVENGER	(F) 06/13/2012		Ser. 76/711724
Varel International Ind., L.P.	United States	KATANA	(F) 09/17/2012		Ser. 76/712411
Varel International Ind., L.P.	France	VAREL	(F) 07/27/1988 (G) 07/27/1988		Reg. 1480288
Varel International Ind., L.P.	Italy	VAREL	(F) 08/16/1998 (G) 04/24/2001 (F) 07/22/2008		Reg. 1300259 Renewal Reg. 844259 RM/2008/4486
Varel International Ind., L.P.	Mexico	VAREL	(F) 08/17/1988 (G) 07/07/1993		Reg. 364265
Varel International Ind., L.P.	Venezuela	VAREL	(F) 03/25/1992 (G) 10/07/1994		Reg. 169729
Varel International Ind., L.P.	European Community	VAREL	(F) 04/04/2011 (G) 09/06/2011		Reg. 009865262
Varel International Ind., L.P.	United Kingdom	VAREL	(F) 04/04/2011 (G) 07/08/2011		Reg. 2577162
Varel International Ind., L.P.	France	VAREL INTERNATIONAL (& Design) 	(F) 08/14/2007 (G) 01/18/2008		Reg. 07 3 519 749

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	Australia	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 08/08/2007 (G) 01/29/2008		Reg. 1191672
Varel International Ind., L.P.	Saudi Arabia	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 08/08/2007 (G) 08/29/2008		Reg. 1007/79
Varel International Ind., L.P.	Canada	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 09/13/2007 (G) 10/15/2009		Reg. TMA750359
Varel International Ind., L.P.	Mexico	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 08/18/2007 (G) 02/29/2008		Reg. 1028216
Varel International Ind., L.P.	United Kingdom	VAREL INTERNATIONAL (& Design)  VAREL INTERNATIONAL	(F) 08/09/2007 (G) 02/29/2008		Reg. 2463704

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	Chile	VAREL INTERNATIONAL (& Design) 	(F) 10/11/2007 (G) 04/24/2008		Reg. 814.904
Varel International Ind., L.P.	Russian Federation	VAREL INTERNATIONAL (& Design) 	(F) 08/14/2007 (G) 10/20/2008		Reg. 362498
Varel International Ind., L.P.	United Arab Emirates	VAREL INTERNATIONAL (& Design) 	(F) 09/20/2007 (G) 04/19/2010		Reg. 101999
Varel International Ind., L.P.	South Africa	VAREL INTERNATIONAL (& Design) 	(F) 08/08/2007 (G) 07/02/2010		Reg. 2007/17789
Varel International Ind., L.P.	Australia	DEDICATED TO DRILL BITS	(F) 09/24/2007 (G) 03/17/2008		Reg. 1200434
Varel International Ind., L.P.	Canada	DEDICATED TO DRILL BITS	(F) 09/24/2007 (G) 07/09/2010		Reg. TMA771604
Varel International Ind., L.P.	South Africa	DEDICATED TO DRILL BITS	(F) 09/25/2007 (G) 04/23/2010		Reg. 2007/21753
Varel International Ind., L.P.	United Kingdom	VAREL DEDICATED TO DRILL BITS	(F) 12/07/2007 (G) 05/02/2008		Reg. 2474412

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	European Community	VAREL INTERNATIONAL	(F) 04/04/2011 (G) 09/06/2011		Reg. 009865296
Varel International Ind., L.P.	United Kingdom	VAREL INTERNATIONAL	(F) 04/04/2011 (G) 07/08/2011		Reg. 2577163
Varel International Ind., L.P.	Australia	DEDICATED TO DRILL BITS	(F) 10/04/2012		Ser. 7154518257

TRADEMARK SECURITY INTEREST IN ITALY

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	Italy	VAREL	(F) 08/16/1998 (G) 04/24/2001 (F) 07/22/2008		Reg. 1300259 Renewal Reg. 844259 RM/2008/4486

TRADEMARK SECURITY INTEREST IN VENEZUELA

Entity Name	Country	Mark	Filing Date / Grant Date	Status	Application No. / Registration No.
Varel International Ind., L.P.	Venezuela	VAREL	(F) 03/25/1992 (G) 10/07/1994		Reg. 169729