

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael R. Reese</td> <td>09/22/2009</td> </tr> <tr> <td>Gilles Gallego</td> <td>10/13/2009</td> </tr> <tr> <td>Scott Buteaud</td> <td>09/22/2009</td> </tr> <tr> <td>Alan K. Harrell</td> <td>09/22/2009</td> </tr> <tr> <td>Steven W. Drews</td> <td>09/22/2009</td> </tr> </tbody> </table>		Name	Execution Date	Michael R. Reese	09/22/2009	Gilles Gallego	10/13/2009	Scott Buteaud	09/22/2009	Alan K. Harrell	09/22/2009	Steven W. Drews	09/22/2009
Name	Execution Date												
Michael R. Reese	09/22/2009												
Gilles Gallego	10/13/2009												
Scott Buteaud	09/22/2009												
Alan K. Harrell	09/22/2009												
Steven W. Drews	09/22/2009												
RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Varel Europe S.A.S.</td> </tr> <tr> <td>Street Address:</td> <td>45, Avenue Leon Blum</td> </tr> <tr> <td>Internal Address:</td> <td>Pau Cite Multimedia, Baitiment D</td> </tr> <tr> <td>City:</td> <td>PAU Cedex 09</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>64054</td> </tr> </table>		Name:	Varel Europe S.A.S.	Street Address:	45, Avenue Leon Blum	Internal Address:	Pau Cite Multimedia, Baitiment D	City:	PAU Cedex 09	State/Country:	FRANCE	Postal Code:	64054
Name:	Varel Europe S.A.S.												
Street Address:	45, Avenue Leon Blum												
Internal Address:	Pau Cite Multimedia, Baitiment D												
City:	PAU Cedex 09												
State/Country:	FRANCE												
Postal Code:	64054												
PROPERTY NUMBERS Total: 1													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12578111</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12578111								
Property Type	Number												
Application Number:	12578111												
CORRESPONDENCE DATA													
Fax Number: (713)751-3290 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 713-751-3200 Email: houpatentdocket@kslaw.com Correspondent Name: KING & SPALDING, LLP Address Line 1: 1100 LOUISIANA ST., STE. 4000 Address Line 2: ATTN.: IP Docketing Address Line 4: HOUSTON, TEXAS 77002-5213													
ATTORNEY DOCKET NUMBER:	15268.105009												

OP \$40.00 12578111

500987109

PATENT
REEL: 023363 FRAME: 0114

NAME OF SUBMITTER:

Christina DuVal

Total Attachments: 6

source=assignment#page1.tif

source=assignment#page2.tif

source=assignment#page3.tif

source=assignment#page4.tif

source=assignment#page5.tif

source=assignment#page6.tif

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Michael R. Reese
Gilles Gallego
Scott Buteaud
Steve W. Drews
Alan K. Harrell

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Varel Europe S.A.S

Internal Address: Pau Cité Multimédia, Bâtiment D

Street Address: 45, Avenue Léon Blum

City: PAU Cedex 09

State: _____

Country: France Zip: 64054

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) September 22, 2009 & October 13, 2009

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: King & Spalding LLP

Internal Address: Suite 4000 IP Department

Street Address: 1100 Louisiana Street

City: Houston

State: Texas Zip: 77002

Phone Number: 713.751.3200

Fax Number: 713.751.3290

Email Address: houpatentdocket@kslaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged to deposit account

☒ Enclosed - VIA EFS Web

☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number _____

Authorized User Name _____

9. Signature:

Rajesh D. Patel
Signature

10-13-2009
Date

Rajesh D. Patel, Reg. No. 57,798

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT

WHEREAS, we, **Michael R. Reese**, a citizen of the United States, residing at 2806 Twin Fountains Drive, Houston, Texas, United States, **Gilles Gallego**, a citizen of France, residing at 17 Rue du Bois du Commandeur, 65420, Ibos, France, **Scott Buteaud**, a citizen of the United States, residing at, 31314 Summit Grove Lane, Spring, Texas 77386, United States, **Alan K. Harrell**, a citizen of the United States, residing at, 6220 Medley Road, New Waverly, Texas 77358, United States, and **Steven W. Drews**, a citizen of the United States, residing at, 18226 Arbormont Drive, Cypress, Texas 77429, United States, have invented certain inventions and improvements disclosed in a non-provisional application for Letters Patent entitled, "**Improved Casting Method For Matrix Drill Bits And Reamers**", which is being filed with the U.S. Patent and Trademark Office concurrently herewith; and

WHEREAS, **Varel Europe S.A.S**, a French having a principal place of business at Pau Cité Multimédia, Bâtiment D, 45, Avenue Léon Blum, 64054 PAU Cedex 09, France, is desirous of acquiring an interest in the same.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **Michael R. Reese**, **Gilles Gallego**, **Scott Buteaud**, **Alan K. Harrell** and **Steven W. Drews**, by these presents do sell, assign, and transfer to **Varel Europe S.A.S**, the full, exclusive, and entire right, title, and interest in and to said application, in and to any divisions, continuations, reexaminations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said application, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Director of the U.S. Patent and Trademark Office to issue any and all Letters Patent of the United States resulting from said application, or from a division, continuation, reexamination, or reissue thereof, to **Varel Europe S.A.S** as the assignee, for its interest and for the sole use and benefit of **Varel Europe S.A.S** and its assigns and legal representatives;

For the same consideration, we by these presents, do sell, assign, and transfer to **Varel Europe S.A.S** the full, exclusive, and entire right, title, and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **Varel Europe S.A.S** or its designee insofar as permitted by applicable law;

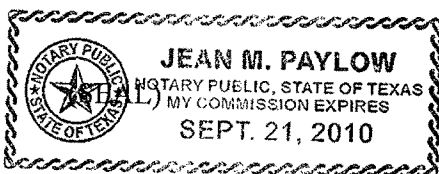
AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Varel Europe S.A.S**, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

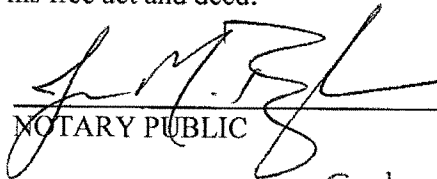


Michael R. Reese

STATE OF Texas

Before me, a Notary Public in and for the State of Texas, on this 22 day of September, 2009, personally appeared **Michael R. Reese**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.





NOTARY PUBLIC
My Commission Expires: Sept. 21, 2010

Gilles Gallego

STATE OF _____

Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared **Gilles Gallego**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

NOTARY PUBLIC

My Commission Expires: _____

AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, reexamination, reissue, and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Varel Europe S.A.S.**, its successors, assigns, and nominees to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

STATE OF _____ Michael R. Reese
Before me, a Notary Public in and for the State of _____, on this _____ day of _____, 2009, personally appeared **Michael R. Reese**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

NOTARY PUBLIC

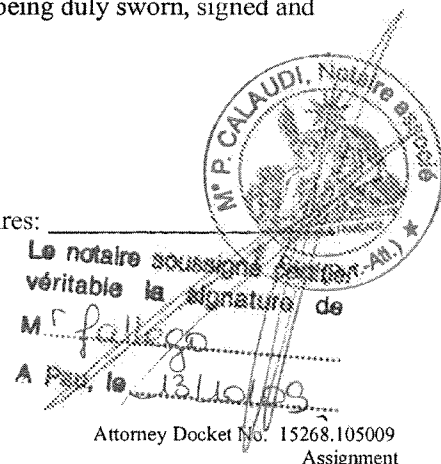
My Commission Expires: _____

STATE OF FRANCE Gilles Gallego
Before me, a Notary Public in and for the State of FRANCE on this 13 day of OCTOBER, 2009, personally appeared **Gilles Gallego**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

NOTARY PUBLIC

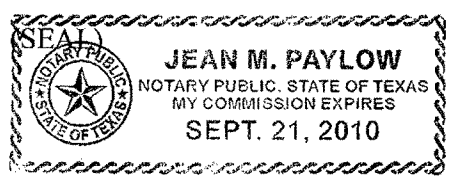
My Commission Expires: _____



Scott Buteaud
Scott Buteaud

STATE OF Texas

Before me, a Notary Public in and for the State of Texas, on this 22 day of September, 2009, personally appeared **Scott Buteaud**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.



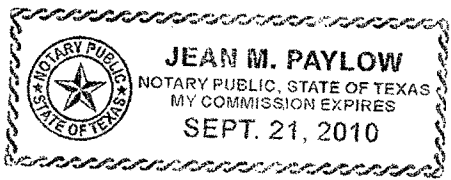
NOTARY PUBLIC J. M. Paylow
My Commission Expires: Sept. 21, 2010

Alan K. Harrell
Alan K. Harrell

STATE OF Texas

Before me, a Notary Public in and for the State of Texas, on this 22 day of September, 2009, personally appeared **Alan K. Harrell**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

(SEAL)

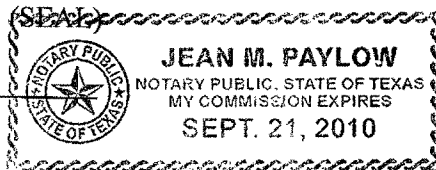


NOTARY PUBLIC J. M. Paylow
My Commission Expires: Sept 21, 2010

Steven W. Drews
Steven W. Drews

STATE OF Texas

Before me, a Notary Public in and for the State of Texas, on this 22 day of September, 2009, personally appeared **Steven W. Drews**, who, being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.



NOTARY PUBLIC J. M. Paylow

My Commission Expires: Sept. 21, 2010