

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4354156

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|---|-------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SCOTT ALAN REMPE | 02/09/2017 |
| TONY BRIGGS | 02/14/2017 |
| DAVID HANSON | 02/16/2017 |
| KEITH SJOSTROM | 02/09/2017 |
| NATHAN COPELAND | 03/22/2017 |
| HANS KELPE | 03/14/2017 |
| TOD MICHAEL | 02/09/2017 |
| CHAD VAN SOELEN | 02/09/2017 |
| RECEIVING PARTY DATA | |
| Name: | VERMEER MANUFACTURING COMPANY |
| Street Address: | 1210 VERMEER ROAD EAST |
| City: | PELLA |
| State/Country: | IOWA |
| Postal Code: | 50219 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15477428 |
| CORRESPONDENCE DATA | |
| Fax Number: | (612)332-9081 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 612.332.5300 |
| Email: | mcaufman@merchantgould.com |
| Correspondent Name: | MARK L. GLEASON |
| Address Line 1: | P.O. BOX 2903 |
| Address Line 2: | MERCHANT & GOULD P.C. |
| Address Line 4: | MINNEAPOLIS, MINNESOTA 55402 |
| ATTORNEY DOCKET NUMBER: | 10646.0677USC1 |
| NAME OF SUBMITTER: | MARK L. GLEASON |
| SIGNATURE: | /Mark L. Gleason/ |

PATENT

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|---|------------|
| DATE SIGNED: | 04/05/2017 |
| Total Attachments: 11 source=2017-04-04--Executed-Assignment-parent#page1.tif source=2017-04-04--Executed-Assignment-parent#page2.tif source=2017-04-04--Executed-Assignment-parent#page3.tif source=2017-04-04--Executed-Assignment-parent#page4.tif source=2017-04-04--Executed-Assignment-parent#page5.tif source=2017-04-04--Executed-Assignment-parent#page6.tif source=2017-04-04--Executed-Assignment-parent#page7.tif source=2017-04-04--Executed-Assignment-parent#page8.tif source=2017-04-04--Executed-Assignment-parent#page9.tif source=2017-04-04--Executed-Assignment-parent#page10.tif source=2017-04-04--Executed-Assignment-parent#page11.tif | |

ASSIGNMENT

WHEREAS, we, Scott Alan Rempe, Tony Briggs, David Hanson, Keith Sjostrom, Nathan Copeland, Hans Kelppe, Tod Michael and Chad Van Soelen, made certain new and useful inventions and improvements for which we filed an application with the United States Patent and Trademark Office on August 5, 2014, application Serial No. 14/127,839 which is entitled HORIZONTAL DIRECTIONAL DRILLING SYSTEM INCLUDING SONDE POSITION DETECTION USING GLOBAL POSITIONING SYSTEMS.

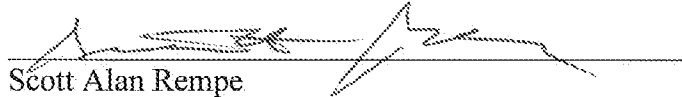
AND WHEREAS, Vermeer Manufacturing Company, a corporation organized and existing under and by virtue of the laws of the State of Iowa, and having an office and place of business at 1210 Vermeer Road East, Pella, IA 50219 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and the right(s) to claim priority thereto, and in and to the application, all patent applications based upon said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of
Feb, 2017.



Scott Alan Rempe
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of
February, 2017.

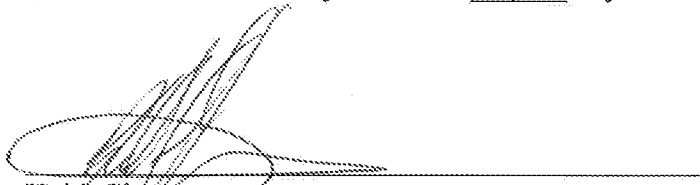


Tony Briggs
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

David Hanson
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9 day of
February, 2017.



Keith Sjöström
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Nathan Copeland
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Scott Alan Rempe
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Tony Briggs
Inventor

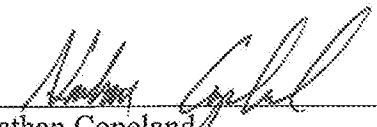
IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

David Hanson
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

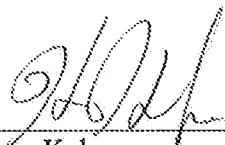
Keith Sjostrom
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of March, 2017.



Nathan Copeland
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 14 day of
March, 2011.



Hans Kelppe
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Tod Michael
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20____.

Chad Van Soelen
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Hans Kelpo
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9th day of February, 2017.



Todd Michael
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20__.

Chad Van Soelen
Inventor

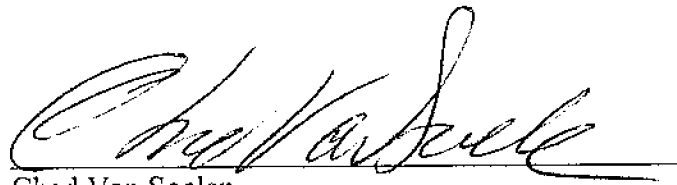
IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Hans Kelpo
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Tod Michael
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 9th day of February, 2017.


Chad Van Soelen
Inventor

ASSIGNMENT

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NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and the right(s) to claim priority thereto, and in and to the application, all patent applications based upon said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

PAH

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

DRH

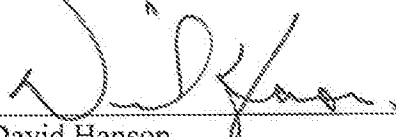
IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Scott Alan Rempe
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Tony Briggs
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16 day of February, 2017.



David Hanson
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Keith Sjostrom
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 20____.

Nathan Copeland
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20_____.

Hans Kelpé
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20_____.

Tod Michael
Inventor

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of
_____, 20_____.

Chad Van Soelen
Inventor

DSH