#### 10/15/2015 503524031

### PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name               | Execution Date |
|--------------------|----------------|
| THOMAS NORTON      | 10/13/2015     |
| AMANDA KAY FREIS   | 10/13/2015     |
| ANTHONY J. GRIMA   | 10/13/2015     |
| GARRET SANKEY HUFF | 10/13/2015     |

### **RECEIVING PARTY DATA**

| Name:             | FORD GLOBAL TECHNOLOGIES, LLC   |
|-------------------|---------------------------------|
| Street Address:   | FAIRLANE PLAZA SOUTH, SUITE 800 |
| Internal Address: | 330 TOWN CENTER DRIVE           |
| City:             | DEARBORN                        |
| State/Country:    | MICHIGAN                        |
| Postal Code:      | 48126                           |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14883782 |

### **CORRESPONDENCE DATA**

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| ATTORNEY DOCKET NUMBER:                                    | TTORNEY DOCKET NUMBER: 83580567 |  |
|--|---------------------------------|--|
| NAME OF SUBMITTER:   | JODY RICHMOND                   |  |
| SIGNATURE:   | /JODY RICHMOND/                 |  |
| DATE SIGNED:   | 10/15/2015                      |  |
| This document serves as an Oath/Declaration (37 CFR 1.63). |                                 |  |

# Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif

|                        | *************************************** |
|------------------------|---|
| Attorney Docket Number | 83580567                                |

## ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Inventi-   | OR METHOD OF REDUCING CYCLE TIME FOR FLOW DRILL SCREW   |  |
|---|---|--|
|   | OPERATIONS  |  |
| This declaration is   | s directed to:  |  |
|   |   |  |
| <u>X</u>  | The attached application, or  |  |
|   | United States application or PCT international application number   |  |
|   | filed on  |  |
| The above-identif   | Red application was made or authorized to be made by me.  |  |
| I hereby state the including the claim  | at I have reviewed and understand the contents of the specification in the above-identified application, ms.        |  |
| I believe that I am   | the original inventor or an original joint inventor of a claimed invention in the application.                      |  |
| I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  |   |  |
| Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 14/883,782 , Filing Date October 15, 2015 ), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. |   |  |
| And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.  |   |  |
| And I hereby rep  | resent and warrant that I have not granted any rights inconsistent with the rights granted herein.                  |  |
| I hereby acknow   | ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine          |  |
|   | of not more than five (5) years or both.  |  |
|   | OF INVENTOR homas Norton Date: 13 Oct ていら   |  |
| Inventor:I  | NOTICE PROFILE  |  |
| Signature:  |   |  |
|   |   |  |
| Note: An Applies  | ation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |  |
| Use an additional   | declaration form for each additional inventor.  |  |

| Attorney Docket Number | 83580567 |
|------------------------|----------|

## ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Invention  | METHOD OF REDUCING CYCLE TIME FOR FLOW DRILL SCREW  |  |
|---|---|--|
|   | OPERATIONS  |  |
| This declaration is directed to:  |   |  |
|   | \$ 1.4 · 1.4 · 18 · 18 · 18 · 18 · 18 · 18 · 18 · 1   |  |
|   | ttached application, or   |  |
|   | d States application or PCT international application numberfiled on  |  |
| ·   | med on  |  |
| The above-identified app  | plication was made or authorized to be made by me.  |  |
| I hereby state that I ha including the claims.  | ve reviewed and understand the contents of the specification in the above-identified application,   |  |
| I believe that I am the or  | riginal inventor or an original joint inventor of a claimed invention in the application.   |  |
| I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  |   |  |
| Pursuant to my employment agreement heretofore made or by contractual obligation. I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby and the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the application to receive Letters Patent herein: Serial No. 14/883, 782 , Filing Date October 15, 2015 ), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications.  And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over. |   |  |
| And I hereby represent  | and warrant that I have not granted any rights inconsistent with the rights granted herein.   |  |
|   | that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.  |  |
| LEGAL NAME OF IN  | VENTOR DE 12 225  |  |
| Inventor: Amanda  | Kay Freis Date: The Date: |  |
| Claretina.  | ale Ka Falis  |  |
| Signature: 1.4.4.   |   |  |
| Note: An Application De   | ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  |  |
|   | ion form for each additional inventor   |  |

| Attorney Docket Number | 83580567 |
|------------------------|----------|

## ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| -                                       | Title of Invention   METHOD OF REDUCING CYCLE TIME FOR FLOW DRILL SCREV   | V                               |
|---|---|---------------------------------|
| -                                       | OPERATIONS  |                                 |
|   | This declaration is directed to:  |                                 |
|   | X The attached application, or United States application or PCT international application number filed on   |                                 |
| -                                       | The above-identified application was made or authorized to be made by me.   |                                 |
|   | I hereby state that I have reviewed and understand the contents of the specification in the above-identified application including the claims.  | n,                              |
| *************************************** | I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  |                                 |
|   | I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the pricapplication and the national or PCT international filing date of the continuation-in-part application.  |                                 |
|   | Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unt FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title an interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Paters for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 14/883,782 , Filing Date October 15, 2015 ), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provision applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organization including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisional reexaminations and reissue applications.  And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all paper including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernment organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representative | n, id ht nt oo. ne al ns ls, al |
|   | may deem necessary to secure thereto the rights herein sold, assigned and set over.   |                                 |
|   | And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.  |                                 |
|   | I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fir or imprisonment of not more than five (5) years or both.   | ie.                             |
|   | LEGAL NAME OF INVENTOR  |                                 |
|   | Inventor: Anthony J. Grima Date: /0-/3-20/5   |                                 |
|   | Signature: Anthony J. Trina   |                                 |
|   | Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this for Use an additional declaration form for each additional inventor.   | П1,                             |

**RECORDED: 10/15/2015** 

| Attorney Docket No | umber 83580567 |  |
|--------------------|----------------|--|

### ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Invention METHOD OF REDUCING CYCLE TIME FOR FLOW DRILL SCREW   |
|---|
| OPERATIONS  |
| This declaration is directed to:  |
| X The attached application, or  United States application or PCT international application number filed on  |
| The above-identified application was made or authorized to be made by me.   |
| I hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims.   |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  |
| I am aware of the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.  |
| Pursuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 14/883, 782, Filing DateOctober _15, _2015, and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications. |
| And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.  |
| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.  |
| I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.  |
| LEGAL NAME OF INVENTOR 10/13/2015   |
| Inventor: Garret Sankey Huff Date: 19/15/2015   |
| Signature: Cyarret Santry Hoff  |
| Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  |
| Use an additional declaration form for each additional inventor.  |