12/13/2017 504685960

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4732682

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

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| STUART FORD | 12/05/2017 |
| ALEXANDER O'CONNOR GIBSON | 12/05/2017 |
| COREY BLUE | 11/29/2017 |

RECEIVING PARTY DATA

| Name: | FORD GLOBAL TECHNOLOGIES, LLC |
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| Internal Address: | 330 TOWN CENTER DRIVE |
| City: | DEARBORN |
| State/Country: | MICHIGAN |
| Postal Code: | 48126 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15840553 |

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 83922833 |
|-------------------------|-------------------------|
| NAME OF SUBMITTER: | CARALINA M. CASPERSON |
| SIGNATURE: | /Caralina M. Casperson/ |
| DATE SIGNED: | 12/13/2017 |

Total Attachments: 3

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PATENT REEL: 044387 FRAME: 0498 504685960

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| Attorney Docket Number | 1.83922833 |
| remorney Expende Frances | 000222000 |
| | |

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 | METHODS AND SYSTEM FOR ADAPTING OPERATION OF A |
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| ; | DRIVELINE DISCONNECT CLUTCH |
| This declaration is directed | ed to: |
| United United | States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and ten they become known.) |
| nameer and ans form wi | on they become known.y |
| The above-identified app | lication was made or authorized to be made by me. |
| I hereby state that I have including the claims. | e reviewed and understand the contents of the specification in the above-identified application, |
| I believe that I am the ori | ginal inventor or an original joint inventor of a claimed invention in the application. |
| continuation-in-part app | disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL TECHT of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and diname or names, or in my insert the serial/applicat 15/840,553 ASSIGNEE, its success applications, in and to the including all application reexaminations and reissues. | |
| including applications fo organizations, and to per | myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, in Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives becure thereto the rights herein sold, assigned and set over. |
| And I hereby represent as | nd warrant that I have not granted any rights inconsistent with the rights granted herein. |
| | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both. |
| LEGAL NAME OF INV | ENTOR |
| Inventor: Stuart For | d Date: 05Dec7017 |
| Signature: | art Jerd |
| Note: An An-II-2012 Day | Sheet (PTO/SB714 or equivalent), including naming the entire inventive entity, must accompany this form. |
| | n form for each additional inventor. |

PATENT REEL: 044387 FRAME: 0499

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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 | METHODS AND SYSTEM FOR ADAPTING OPERATION OF A |
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| · | DRIVELINE DISCONNECT CLUTCH |
| This declaration is direct | |
| | tached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and |
| number into this form wh | ten they become known.) |
| The above-identified app | lication was made or authorized to be made by me. |
| I hereby state that I havincluding the claims. | re reviewed and understand the contents of the specification in the above-identified application, |
| I believe that I am the or | iginal inventor or an original joint inventor of a claimed invention in the application. |
| continuation-in-part app | disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL TECH of the State of Delaward hereinafter referred to a interest, domestic and for of the ASSIGNEE, its state for the inventions and diname or names, or in my insert the serial/applica 15/840,553 ASSIGNEE, its success applications, in and to the including all application reexaminations and reiss. And I hereby agree for including applications for organizations, and to perform the state of the | nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws at having its principal place of business at Dearborn, County of Wayne, and State of Michigan, as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and reign, in and to the inventions and discoveries in the above-identified invention including the right accessors, assigns or other legal representatives to make applications and to receive Letters Patent scoveries in any and all countries, entities and intergovernmental organizations, in its or their own aname, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No. ——————————————————————————————————— |
| | nd warrant that I have not granted any rights inconsistent with the rights granted herein. |
| or imprisonment of not n | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both. |
| LEGAL NAME OF INV | |
| Inventor: Alexande | r O'Connor Gibson Date: |
| Signature: | |
| | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

PATENT REEL: 044387 FRAME: 0500

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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 | METHODS AND SYSTEM FOR ADAPTING OPERATION OF A |
|--|---|
| This declaration is direct | DRIVELINE DISCONNECT CLUTCH |
| ☐ The att | tached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and |
| The above-identified app | lication was made or authorized to be made by me. |
| I hereby state that I have including the claims. | re reviewed and understand the contents of the specification in the above-identified application, |
| I believe that I am the ori | ginal inventor or an original joint inventor of a claimed invention in the application. |
| continuation-in-part app | o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL TECHI of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and diname or names, or in my insert the serial/applicat 15/840,553 ASSIGNEE, its success applications, in and to the including all application reexaminations and reissal. And I hereby agree for a including applications for organizations, and to per | nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws and the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and reign, in and to the inventions and discoveries in the above-identified invention including the right accessors, assigns or other legal representatives to make applications and to receive Letters Patent accessors, assigns or other legal representatives to make applications, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the invention number and filing date of the application to receive Letters Patent herein: Serial No. —, Filing Date |
| | nd warrant that I have not granted any rights inconsistent with the rights granted herein. |
| | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both. |
| LEGAL NAME OF INV | DATTOR |
| Inventor: Corey Blu | Date: $\frac{11 - 29 - 2017}{1}$ |
| Signature: | of Mul |
| Note: An Application Data Use an additional declaratio | Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor. |

PATENT REEL: 044387 FRAME: 0501

RECORDED: 12/13/2017