504611272 10/25/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4657985

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

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| BRIAN HOFMANN | 10/18/2017 |
| JOHN WILLIAM SCHMOTZER | 10/13/2017 |
| RICHARD GORDON | 10/13/2017 |
| DARCY SALMAN | 10/23/2017 |

RECEIVING PARTY DATA

| Name: | FORD MOTOR COMPANY |
|-----------------|--------------------|
| Street Address: | ONE AMERICAN ROAD |
| City: | DEARBORN |
| State/Country: | MICHIGAN |
| Postal Code: | 48126 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15793493 |

CORRESPONDENCE DATA

Fax Number: (248)358-3351

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: (248)358-4400

Email: amungons@brookskushman.com

Correspondent Name: ISAAC T. SLUTSKY 1000 TOWN CENTER Address Line 1:

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

| ATTORNEY DOCKET NUMBER: | 83880524 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | ISAAC T. SLUTSKY |
| SIGNATURE: | /Isaac T. Slutsky/ |
| DATE SIGNED: | 10/25/2017 |

Total Attachments: 4

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| Attorney Docket Number | enegazna | |
| A MINISTER AND | 03000344 | |

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 FLEET MANAGEMENT EFFICIENCY VISUALIZATION |
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| This declaration is directed to: |
| X The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and number into this form when they become known.) |
| 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 MOTOR COMPANY, 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. 15/793,493 . Filing Date October 25, 2017 .), 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 Inventor: Brian Hofmann Date: C / 18 / 80 / 7 |
| Signature: State Limina |
| |
| 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. |

| Attorney Docket Number | 83880524 |
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| This declaration is direct | ed to: |
| | tached application, or |
| United United | 1 States application or PCT international application number |
| number into this form w | filed on, (I hereby authorize the insertion of the application filing date and hen they become known.) |
| The above-identified app | dication was made or authorized to be made by me. |
| I hereby state that I had including the claims. | ve 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 | o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for offications, material information which became available between the filing date of the prior mul or PCT international filing date of the continuation-in-part application. |
| FORD MOTOR COMP place of business at De successors, assigns or conventions and discoveriother legal representativall countries, entities an election (and I hereby a date of the application october 25, 20 legal representatives, all any and all countries, expenses of the countries, expenses of the countries of the countries, and any and all countries, expenses of the countries of | ment agreement heretofore made or by contractual obligation. I do sell, assign and set over unto ANY, organized and existing by virtue of the laws of the State of Delaware, having its principal arborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its other legal representatives, the entire right, title and interest, domestic and foreign, in and to the es in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or es to make applications and to receive Letters Patent for the inventions and discoveries in any and d intergovernmental organizations, in its or their own name or names, or in my name, at its or their inhorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing in to receive Letters Patent herein: Serial No. 15/793,493, Filing Date 17, and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other rights of priority, including any provisional applications, in and to the inventions and discoveries in nitities and intergovernmental organizations including all applications claiming benefit of the filing its, continuations-in-part, divisionals, reexaminations and reissue applications. |
| including applications forganizations, and to pe | myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental aform any and all auts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over. |
| And I bereby represent a | and warrant that I have not granted any rights inconsistent with the rights granted herein. |
| I hereby acknowledge if | hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five 15 years or both. |
| LEGAL NAME OF IN | |
| | Malm Schwerfer/ Dute: 10/15/12 |
| Signature: | 444 |
| | is Shoot (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |
| Use an additional declarati | no form for each additional inventor. |

| Attorney Docket Number | 83880524 |
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| The above-identified app | dication was made or authorized to be made by me. |
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| continuation-in-part app | o disclose information which is material to patentability as defined in 37 C.F.R. 1.56; including for discisons, 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 MOTOR COMP place of business at De successors, assigns or o inventions and discoveriother legal representativall countries, entities and election (and I hereby at date of the application October 25, 20 legal representatives, all any and all countries, er date hereof, continuation And I hereby agree for including applications forganizations, and to per | ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto ANY, organized and existing by virtue of the laws of the State of Delaware, having its principal arborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its ther legal representatives, the entire right, title and interest, domestic and foreign, in and to the es in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or es to make applications and to receive Letters Patent for the inventions and discoveries in any and I intergovernmental organizations, in its or their own name or names, or in my name, at its or their athorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing in to receive Letters Patent herein: Serial No. 15/793,493 , Filing Date 17), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other rights of priority, including any provisional applications, in and to the inventions and discoveries in atities and intergovernmental organizations including all applications claiming benefit of the filing is, continuations-in-part, divisionals, reexaminations and reissue applications. myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental aform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives accure thereto the rights herein sold, assigned and set over. |
| And I hereby represent a | nd warrant that I have not granted any rights inconsistent with the rights granted herein. |
| | nat any willful false statement made in this declaration is punishable under (8 U.S.C. 1001 by fine note than five (5) years or both. |
| LEGAL NAME OF HY | CENTOR Sorder / C O / Date: 13 Oct 2012 |
| Inventor: Richard to | Jordon Date: 18 Oct 2017 |
| | |
| | a Sheet (PTO/SBA4/or equivalent), including numing the entire inventive entity, must accompany this form on form the each Additional inventor. |

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RECORDED: 10/25/2017

Attorney Docket Sumber | 83880574

ASSIGNMENT AND DECLARATION G7 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

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| This declaration is directed to | |
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| I hereby state that I have reviewed and understand the contents of the specification in the above identified application, including the claims. | |
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| FORD MOTOR COMP place of business at De- tuccessors, assigns or of inventions and discoveri- other legal representative all countries, entities and election (and I hereby as date of the application October 25, 20 legal representatives, all any and all sountries and | nent agreement heretefore made or by contractual obligation. I do self, assign and set over unto ANY, organized and existing by virtue of the laws of the State of Delaware, having its principal arborn. County of Wayne, and State of Michigon, bereinafter referred to as the ASSIGNEE, its their legal representatives, the entire right, title and interest, domestic and foreign, is and to the six in the above identified invention including the right of the ASSIGNEE, its successor, assigns or as to make applications and to receive Letters Patent for the inventions and discoveries in any and intergovernmental organizations, in its or their own name or names, or in my name, at its or their thorize the ASSIGNEE or ASSIGNEE's attention to insert the second patent number and filling to receive Letters Patent herein. Serial No |
| And I hereby agree for miself, 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, emittes 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 solid, assigned and set over | |
| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. | |
| or impressment of not m FEGAL NAME OF INVI- Inventor <u>ITMS 3</u> 8 | of any willful false statement made in this declaration is punishable under 18 U.S.C. (00) by time one than five (5) years or both. NTOR man. Date 1/2 / 2/ 3 / 2/ 2/ 2.54 |
| Note: An Application Data Sheet (PTO/SP/14 or equivalent), including saming the entire inventive entity, most accompany this form. Use on additional Sections from for each additional inventor. | |