504530358 09/01/2017

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| XIAOGANG ZHANG | 10/28/2015 |
| BRAD ALAN VANDERWEGE | 11/06/2015 |
| JOSEPH NORMAN ULREY | 11/02/2015 |

RECEIVING PARTY DATA

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|-------------------|---------------------------------|
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| State/Country: | MICHIGAN |
| Postal Code: | 48126 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15693791 |

CORRESPONDENCE DATA

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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.

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| ATTORNEY DOCKET NUMBER: | 83882824 |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | LAURA ROBERTS |
| SIGNATURE: | /Laura Roberts/ |
| DATE SIGNED: | 09/01/2017 |

Total Attachments: 3

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PATENT REEL: 043471 FRAME: 0005 504530358

| | , |
|------------------------|----------|
| Attorney Docket Number | 83588663 |

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 | | R AN ASPIRATOR FOR A BRAKE OSTER |
|---|---|---|
| This declaration is direct | ed to: | |
| United | tached application, or States application or PCT international applica filed on | |
| 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 th | e 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 | | ntability as defined in 37 C.F.R. 1.56, including for available between the filing date of the prior aution-in-part application. |
| FORD GLOBAL TECH! of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its surfor the inventions and disname or names, or in my insert the serial/applicated 14/941, 238 ASSIGNEE, its success applications, in and to the including all application reexaminations and reissed. And I hereby agree for reincluding applications for organizations, and to per | NOLOGIES, LLC, a Ford Motor Company sub- e, having its principal place of business at De is the ASSIGNEE, its successors, assigns or of reign, in and to the inventions and discoveries in accessors, assigns or other legal representatives scoveries in any and all countries, entities and mame, at its or their election (and I hereby aut tion number and filing date of the applicat pors, assigns or other legal representatives, is inventions and discoveries in any and all counts as claiming benefit of the filing date hereof the applications. myself, my heirs, successors, assigns or other in Letters Patent of any and all kinds and in an | tual obligation, I do sell, assign and set over unto sidiary, organized and existing by virtue of the laws arborn, County of Wayne, and State of Michigan, her legal representatives, the entire right, title and n the above-identified invention including the right to make applications and to receive Letters Patent intergovernmental organizations, in its or their own horize the ASSIGNEE or ASSIGNEE's attorney to ion to receive Letters Patent herein: Serial No. 5), and I hereby sell, assign and set over to the all rights of priority, including any provisional ntries, entities and intergovernmental organizations; continuations, continuations-in-part, divisionals, egal representatives to execute any and all papers, by and all countries, entities and intergovernmental is successors, assigns or other legal representatives I set over. |
| And I hereby represent ar | nd warrant that I have not granted any rights inc | onsistent with the rights granted herein. |
| - | at any willful false statement made in this decl fore than five (5) years or both. | aration is punishable under 18 U.S.C. 1001 by fine |
| LEGAL NAME OF INV | | a from a serial from |
| Inventor: Xiaogang | Zhang | Date: <u>10/28/2015</u> |
| Signature: | | |
| | | g the entire inventive entity, must accompany this form. |
| How are additional declaration | n from the good additional invantor | |

PATENT REEL: 043471 FRAME: 0006

| | *************************************** | **** | ******** |
|------------------------|---|---|----------|
| Attorney Docket Number | 8358866 | 3 | |
| × | | *************************************** | |

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 AND SYSTEM FOR AN ASPIRATOR FOR A BRAKE BOOSTER | |
|--|--|--|
| This declaration is direct | <u> </u> | |
| ☐ United | tached application, or States application or PCT international application number filed on | |
| The above-identified app | lication was made or authorized to be made by me. | |
| I hereby state that I hav including the claims. | ve reviewed and understand the contents of the specification in the above-identified application, | |
| I believe that I am the ori | iginal 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. 14/941,238 , Filing Date November 13,2015), 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 a | nd warrant that I have not granted any rights inconsistent with the rights granted herein. | |
| or imprisonment of not n | ast 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: Brad Alai | ENTOR n VanDerWege/ Date: 1/6/5 | |
| Signature: | (4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | |
| | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor. | |
| The same of the sa | | |

PATENT REEL: 043471 FRAME: 0007

| Attorney Docket Number | 83588663 | |
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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 | METHOD AND SYSTEM FOR AN ASPIRATOR FOR A BRAKE BOOSTER |
|--|--|
| This declaration is directed | ed to: |
| | ached application, or States application or PCT international application number filed on |
| The above-identified appl | 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 orig | ginal inventor or an original joint inventor of a claimed invention in the application. |
| Acriticulation in bitt tithit | disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for ications, material information which became available between the filing date of the prior al or PCT international filing date of the continuation-in-part application. |
| of the State of Delaware, hereinafter referred to as interest, domestic and force of the ASSIGNEE, its such for the inventions and discussion ame or names, or in my insert the serial/application 14/941, 238 ASSIGNEE, its successor applications, in and to the including all applications reexaminations and reissue | |
| organizations, and to performay deem necessary to sec | yself, my heirs, successors, assigns or other legal representatives to execute any and all papers, Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental orm any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives are thereto the rights herein sold, assigned and set over. |
| | warrant that I have not granted any rights inconsistent with the rights granted herein. |
| I hereby acknowledge that or imprisonment of not mou LEGAL NAME OF INVEN | any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine re than five (5) years or both. |
| Inventor: <u>Joseph Norr</u> | |
| Signature: | 6 May |
| Note: An Application Data S Use an additional declaration t | heet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |
| - Volument 1 | one for each additional mychiga. |

PATENT REEL: 043471 FRAME: 0008

RECORDED: 09/01/2017