505592820 07/26/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5639621

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------|----------------|
| SIRAJ SIDDIQUI | 02/14/2018 |
| AHMED AWADI | 02/15/2018 |
| ERIC RADEMACHER | 02/20/2018 |
| HUSSAM MAKKIYA | 02/15/2018 |
| HAFIZ KHAFAGY | 02/15/2018 |

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: | 16523921 |

CORRESPONDENCE DATA

Fax Number: (971)271-8021

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: 971-271-8020

Email: campbell1@mccrus.com **Correspondent Name:** MCCOY RUSSELL LLP

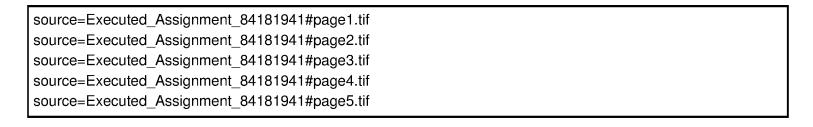
Address Line 1: 806 S.W. BROADWAY, SUITE 600 Address Line 4: PORTLAND, OREGON 97205

| ATTORNEY DOCKET NUMBER: | 84181941 |
|-------------------------|---------------------------|
| NAME OF SUBMITTER: | OONA R. FISHER CAMPBELL |
| SIGNATURE: | /Oona R. Fisher Campbell/ |
| DATE SIGNED: | 07/26/2019 |

Total Attachments: 5

PATENT REEL: 049879 FRAME: 0544

505592820



| Attorney Docket Number | 92061223 |
|--------------------------|------------|
| Attended Docker (Animoet | 1 03731433 |

| Title of Invention | AUTOMATIC ENGINE STOPPING AND STARTING FOR A PARKED VEHICLE | |
|--|--|--|
| This declaration is directed | | |
| | ached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and en they become known.) | |
| The above-identified app | lication was made or authorized to be made by me. | |
| I hereby state that I hav 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 ications, material information which became available between the filing date of the prior all 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. 15/906,604 Filing Date February 27, 2018 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. | | |
| or imprisonment of not m | 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 INVI Inventor: Siraj Sidd | | |
| Signature: | ALDZIKÝ DANE | |
| Note: An Application Data Use an additional declaration | Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. a form for each additional inventor. | |

| *************************************** | |
|---|----------|
| Attorney Docket Number | 83951233 |
| | |

| Title of Invention | AUTOMATIC ENGINE STOPPING AND STARTING FOR A PARKED |
|---|--|
| | VEHICLE |
| This declaration is directed | ed to: |
| United | ached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and |
| manaet into this total All | en they become known.) |
| The above-identified appl | ication 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. |
| communation in part abhi | 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 fort of the ASSIGNEE, its surfor the inventions and distrame or names, or in my insert the serial/applications, its successed applications, in and to the | ent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto IOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws having its principal place of business at Dearborn, County of Wayne, and State of Michigan, the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and right 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 acoveries in any and all countries, entities and intergovernmental organizations, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to con number and filing date of the application to receive Letters Patent herein: Serial No. ——————————————————————————————————— |
| organizations, and to perfe | 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 ornn any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives cure thereto the rights herein sold, assigned and set over. |
| And I hereby represent and | I warrant that I have not granted any rights inconsistent with the rights granted herein. |
| de surbissonment of not ne | 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. |
| LEGAL NAME OF INVE Inventor: Ahmed Aw | m 1 45 0040 |
| | adi Date: February 15, 2018 |
| Note: An Application Data! Use an additional declaration | Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

| Attorney Docket Number | 93951723 | |
|--------------------------|---|--|
| Attorney Docker (Anthor) | (C) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |

| Title of Invention | AUTOMATIC ENGINE STOPPING AND STARTING FOR A PARKED | |
|--|--|--|
| | VEHICLE | |
| This declaration is direct | ed to: | |
| N The or | tached application, or | |
| | I States application or PCT international application number | |
| 1 | filed on (I hereby authorize the insertion of the application liling date and | |
| number into this form wh | nen they become known.) | |
| The above ideas Had and | dication was made or authorized to be made by me. | |
| the above-incuttion abt | nication was made of authorized to be made by the. | |
| I hereby state that I have 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 discations, material information which became available between the filing date of the prior nal 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. 15/906,604 , Filing Date February 27, 2018), 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. | | |
| | nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine | |
| LEGAL NAME OF INV | nore than five (5) years or both. | |
| Inventor: Eric Rad | | |
| A Parking San Carlot | | |
| Signature: <u>Z</u> | Mary | |
| Note: An Application Dat | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | |
| And the second of the second of | and the line which was the a William and State and State and the contract of | |

| The state of the s | | |
|--|------------|--|
| *************************************** | 1.00001000 | |
| Attorney Docket Number | 1 83931233 | |
| | | |

| Title of Invention | AUTOMATIC ENGINE STOPPING AND STARTING FOR A PARKED VEHICLE | |
|--|--|--|
| This declaration is directed to: | | |
| 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 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. 15/906.604 , Filing Date February 27, 2018), 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. | |
| 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 INV | | |
| Inventor: Hussam ! | Makkiya Date: 07/15/00 | |
| Signature: | 4-2 | |
| 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. PATENT | | |

REEL: 049879 FRAME: 0549

| Attorney Docket Number \$3951233 | į |
|--|---|
| Augustica typeret latitibet 1 93331777 | į |
| | ż |

| Title of Invention | AUTOMATIC ENGINE STOPPING AND STARTING FOR A PARKED VEHICLE | |
|--|---|--|
| This declaration is directed to: | | |
| 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, 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. 15/906,604 , Filing Date February 27, 2018), 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 INVI | | |
| Inventor: Hafiz Kha Signature: | fagy Date: | |
| | | |
| 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. | | |

PATENT REEL: 049879 FRAME: 0550

RECORDED: 07/26/2019