#### 504016148 09/21/2016

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4062806

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

#### **CONVEYING PARTY DATA**

| Name                 | Execution Date |
|----------------------|----------------|
| THOMAS G. LEONE      | 09/13/2016     |
| KENNETH JAMES MILLER | 09/13/2016     |

#### **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: | 15272017 |

#### CORRESPONDENCE DATA

Fax Number: (503)459-4142

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: 503-459-4141 Email: tapia@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

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

| ATTORNEY DOCKET NUMBER: | 83678684          |
|-------------------------|-------------------|
| NAME OF SUBMITTER:      | ASHLEY R. TAPIA   |
| SIGNATURE:              | /Ashley R. Tapia/ |
| DATE SIGNED:            | 09/21/2016        |

### **Total Attachments: 2**

source=Executed Assignment 83678684#page1.tif source=Executed Assignment 83678684#page2.tif

> **PATENT** REEL: 039820 FRAME: 0578 504016148

| Attorney Docket Number | 83678684 |
|------------------------|----------|
|                        |          |

# 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  | SYSTEM AND METHODS FOR E<br>MECHANICAL AIR CONDITIONING  |   |
|---|--|---|
| This declaration is direct  | ed to:   |   |
| Haited  | sached application, or States application or PCT international application filed on (I hereby authorize ten they become known.)                                  | number the insertion of the application filing date and   |
| The above-identified app  | fication was made or authorized to be made by me.  |   |
| I hereby state that I hav<br>including the claims.  | e reviewed and understand the contents of the sp   | ecification in the above-identified application,  |
| I believe that I am the ori   | ginal inventor or an original joint inventor of a clai   | ned invention in the application.   |
| continuation-in-part app  | disclose information which is material to patental<br>lications, material information which became a<br>nal or PCT international filing date of the continuation | vailable between the filing date of the prior   |
| FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and di- name or names, or in my insert the serial/applicat  15/272,017 ASSIGNEE, its success applications, in and to the including all application reexaminations and reissigned.  And I hereby agree for the | nyself, my heirs, successors, assigns or other lega  | ary, organized and existing by virtue of the laws orn, County of Wayne, and State of Michigan, legal representatives, the entire right, title and e above-identified invention including the right make applications and to receive Letters Patent governmental organizations, in its or their own ze the ASSIGNEE or ASSIGNEE's attorney to to receive Letters Patent herein: Serial No.), and I hereby sell, assign and set over to the rights of priority, including any provisional es, entities and intergovernmental organizations ontinuations, continuations-in-part, divisionals, I representatives to execute any and all papers, |
| organizations, and to per   | ir Letters Patent of any and all kinds and in any a<br>form any and all acts which the ASSIGNEE, its si<br>ecure thereto the rights herein sold, assigned and se | accessors, assigns or other legal representatives   |
| And I hereby represent a  | nd warrant that I have not granted any rights incons   | stent with the rights granted herein.   |
|   | at any willful false statement made in this declarat<br>nore than five (5) years or both.  | ion is punishable under 18 U.S.C. 1001 by fine  |
| LEGAL NAME OF INV   |  | 2016-09-13  |
| Inventor: Thomas C  | 4 _  | Date: 2010  |
| Signature:  | m dione  |   |
|   | a Sheet (PTO/SB/14 or equivalent), including naming the form for each additional inventor.   | e entire inventive entity, must accompany this form.  |

PATENT REEL: 039820 FRAME: 0579

| ı. | ii. | i.e |   | ü  | Ċ. |   |   |   | <br>J. | ı | 3 | ١. |    | Ŀ | ŝ, | L  |    |   |   |   | i |    |    |    |   |   | S  |   |   | 1 | ٠ | S | Ġ | ż | ٤ | ٠ | i | ٤ | ٠ |   |   |   | ٠. |   | ١. |   |   |   |   |   |   |    | ٠  |  |  |  |  | _ | ٠ | ٠ | ٠ |  | _ | ٠ | _ | ٠ | _ | <br> |  |  | <br> | <br>_ |
|----|-----|-----|---|----|----|---|---|---|--------|---|---|----|----|---|----|----|----|---|---|---|---|----|----|----|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|----|---|---|---|---|---|---|----|----|--|--|--|--|---|---|---|---|--|---|---|---|---|---|------|--|--|------|-------|
| ì  |     |     |   |    |    |   | 3 | ं |        |   | ř | ζ  |    | S | ï  |    | ĸ. | Ī | J | 4 | · | ì  |    |    |   |   |    | 6 | Ö | ū |   |   |   |   |   | 3 |   |   | ì | ì | ÷ | Ū | ě  |   |    |   | ċ |   |   |   | ï | Į, | ĕ  |  |  |  |  |   |   |   |   |  |   |   |   |   |   |      |  |  |      | 3     |
|    | ż   | ş   | П | Ž, | )) | 3 |   | C | ď      |   | ٤ | 7  | Ĭ, | ) | ٤  | ĵ, | t  | Š | ξ | G | ٦ | Ý, | l. | 33 | U | r | ì, | U | ž | Ü |   | ľ |   |   |   | 1 |   |   | ۹ | > | Š | t | τ  | ۶ | 1  | 1 | О | ı | 0 | 1 | ì | ٩  | ŧ, |  |  |  |  |   |   |   |   |  |   |   |   |   |   |      |  |  |      | 3     |

## ASSIGNMENT AND DECLARATION (37 C.F.R. L63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| little of invention  | MECHANICAL AIR CONDITIONING SYSTEM FOR WATER INJECTION   |
|--|--|
| This declaration is directe  | ad to:   |
| ☐ United   | ached application, or States application or PCT international application number   |
| 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 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 15/272,017.  ASSIGNEE, its success applications, in and to the including all application reexaminations and reissonal and the including applications for including applications for organizations, and to perform the state of the series 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 to 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 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 name, 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., Filing Date September 21, 2016), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional e inventions and discoveries in any and all countries, entities and intergovernmental organizations are claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, are applications.  Inyself, 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 form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure thereto the rights herein sold, assigned and set over. |
|  | nd warrant that I have not granted any rights inconsistent with the rights granted herein.   |
| I hereby acknowledge th  | 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  | ENTOR 9/19/2017  |
| Signature: <u>X</u>  | 4)11/4   |
|  | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.   |

PATENT REEL: 039820 FRAME: 0580

RECORDED: 09/21/2016