504025197 09/27/2016

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| DAVID KARL BIDNER | 09/06/2016 |
| PHILLIP BONKOSKI | 09/13/2016 |
| JAMES C. ROLLINSON | 09/08/2016 |
| HUGH HAMILTON | 09/12/2016 |
| SITARAM REJETI | 09/07/2016 |

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: | 15277989 |

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.

503-459-4141 Phone: Email: Tapia@ahmrt.com

ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP **Correspondent Name:**

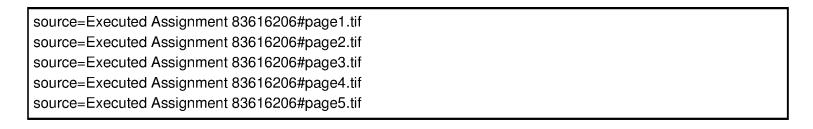
Address Line 1: 806 S.W. BROADWAY, SUITE 600 Address Line 4: PORTLAND, OREGON 97205

| ATTORNEY DOCKET NUMBER: | 83616206 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | ASHLEY R. TAPIA |
| SIGNATURE: | /Ashley R. Tapia/ |
| DATE SIGNED: | 09/27/2016 |

Total Attachments: 5

PATENT REEL: 039871 FRAME: 0355

504025197



Title of Invention

| Attorney Docket Number | 83616206 |
|------------------------|----------|
| | |

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 SYSTEMS FOR COOLANT SYSTEM | | |
|---|--|--|--|
| This declaration is direct | ed to: | | |
| The attached application, or United 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 have including the claims. | e reviewed and understand the contents of the specification in the above-identified application, | | |
| I believe that I am the or | ginal 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. 15/277,989 , Filing Date September 27, 2016), 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 INV Inventor: David Ka | | | |
| Inventor: David Ka Signature: | rl Bidner Date: | | |
| Note: An Application Data | sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | | |

| Attorney Docket Number 83616206 | | |
|-----------------------------------|------------------------|----------|
| Attoricy Docket Number 63010200 | Attorney Docket Number | 83616206 |

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| LEGAL NAME OF INV | | | |
| Inventor: Phillip B. | onkoski Date: 9/13/16 | | |
| Signature: 1M | /h/i | | |
| | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | | |

| Attorney | Docket Number | 83616206 | _ |
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| 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. | | | |
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| LEGAL NAME OF INV | | | |
| Inventor: James C I | Rollinson Date: 4/8/2016 | | |
| Signature: | CC/oh. | | |
| | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. on form for each additional inventor. | | |

| Attorney Docket Nu | mber 83616 | 206 |
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| LEGAL NAME OF INV Inventor: Hugh Ha | | |
| Signature: | zh RALL | |
| Note: An Application Dat | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. | |
| Note: All Application Data Steet (1 1005) 14 to equivalently including that the control of the state of the said state o | | |

Please direct all correspondence to: customer number 36865

| Attorney Docket Number | 83616206 |
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| LEGAL NAME OF INVI | 7.5 C31 | |
| Signature: As As Signature: | | |
| 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: 039871 FRAME: 0361

RECORDED: 09/27/2016