505567873 07/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5614670

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| CARY COLE | 12/04/2015 |
| SUNIL KATRAGADDA | 11/20/2015 |
| PHILLIP BONKOSKI | 11/24/2015 |
| DAVID KARL BIDNER | 11/30/2015 |
| MICHAEL LEVIN | 12/07/2015 |
| COLBY JASON BUCKMAN | 11/23/2015 |
| DANRICH HENRY DEMITROFF | 11/19/2015 |
| AMEY Y. KARNIK | 12/03/2015 |
| FURQAN SHAIKH | 11/19/2015 |

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: | 16509380 |

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 600Address Line 4:PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER: 84173410

PATENT 505567873 REEL: 049731 FRAME: 0501

| NAME OF SUBMITTER: | OONA R. FISHER CAMPBELL | |
|---|---------------------------|--|
| SIGNATURE: | /Oona R. Fisher Campbell/ | |
| DATE SIGNED: 07/11/2019 | | |
| Total Attachments: 9 | | |
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| Attorney Docket Number | |
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| ere of thecists | 4388 | EXHAUST HEAT RECOVERY AND A THERMAL BATTERY |
|---|----------|--|
| This declaration is directed to: | | |
| | United | tached application, or I States application or PCT international application numberfiled on |
| The above-identi | fied app | olication was made or authorized to be made by me. |
| I hereby state the including the claim | | ve reviewed and understand the contents of the specification in the above-identified application, |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. | | |
| continuation-in-p | art app | o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for blications, 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 filling date of the application to receive Letters Patent herein: Serial No. 14/964,332 , Filing Date December 9,2015), 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 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. | | |
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| Inventor: <u>C</u> | ary Col | e Date: 12/4//3 |
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| | | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. on form for each additional inventor. |

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| Attorney Docket Number | 83595692 | |
| 1 | | |

| Title of Invention REAR AXLE LUBRICATION OIL TEMPERATURE CONTROL USING EXHAUST HEAT RECOVERY AND A THERMAL BATTERY | | |
|---|--|--|
| 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. 14/964,332, Filing Date December 9,2015, 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 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: Sunil Katragadda Date: 1/2/25 | | |
| | | |
| Signature: Simil-Kahagadu | | |
| 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. | | |

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| Attorney Docket Number | |

| Title of Invention | REAR AXLE LUBRICATION OIL TEMPERATURE CONTROL USING | |
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| And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein. | | |
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| LEGAL NAME OF INV | VENTOR State of the state of th | |
| Inventor: Phillip E | 9 3 1893 S 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | |
| Signature: <u>Ph1</u> | han been been been been been been been be | |
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| | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor. | |

Please direct all correspondence to customer number: 36865

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| COMMINE DUCKEL NUMBER | EX (5U5AO) |
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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)

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| Title of In | vention | REAR AXLE LUBRICATION OIL TEMPERATURE CONTROL USING |
| This declara | tion is direc | |
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| | The a | ttached application, or |
| | United | d States application or PCT international application number |
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| 1 . | | olication was made or authorized to be made by me. |
| I hereby stat including the | e that I hav 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. |
| I am aware o continuation- application ar | f the duty to in-part app id the nation | o 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. |
| of the State of hereinafter reinterest, dome of the ASSIG for the inventiname or name insert the ser 14/964 ASSIGNEE, applications, including all | of Delaware ferred to as stic and for NEE, its sure ons and dis s, or in my ial/application, 332 its successor and to the applications | 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 accoveries 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 innumber and filing date of the application to receive Letters Patent herein: Serial No. Filing Date December 9, 2015 The provisional of the filing date hereof, continuations, continuations-in-part, divisionals, applications. |
| 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 orm 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 re | present and | warrant that I have not granted any rights inconsistent with the rights granted herein. |
| hereby ackno r imprisonmer | wledge that | any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine |
| legal nami | OF INVER | NTOR |
| nventor: | David Karl | Date: $\frac{1}{20}$ |
| ignature: |) | |
| ote: An Applic se an additional | stion Data S declaration (| heer (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form: |

| Attorney Docket Number | 83595692 |
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| A A STATE WOULDEN | THE PARKET COUNTY | o 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 all or PCT international filing date of the continuation-in-part application. |
| of the State hereinafter interest, do of the ASSI for the invename or narinsert the same of the ASSIGNEE applications including all | of Delaware referred to as nestic and for GNEE, its suntions and dispersions of the serial/applications of 4,332, its successes, in and to the applications | 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, 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 occessors, 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 inn number and filing date of the application to receive Letters Patent herein: Serial No. ——————————————————————————————————— |
| organization | s, and to perfi | tyself, 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 form 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. |
| | nowledge that tent of not mo ME OF INVE | 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: | Michael La | |
| Signature: | <u> </u> | |
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| Title of Invent | ion REAR AXLE LUBRICATION OIL TEMPERATURE CONTROL USING EXHAUST HEAT RECOVERY AND A THERMAL BATTERY |
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| This declaration | |
| | The attached application, or United States application or PCT international application number filed on |
| The above-ident | ified application was made or authorized to be made by me, |
| I hereby state the including the cla | nat I have reviewed and understand the contents of the specification in the above-identified application, ims. |
| I believe that I a | m the original inventor or an original joint inventor of a claimed invention in the application. |
| continuation-in- | be duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for part applications, material information which became available between the filing date of the prior the national or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL of the State of I hereinafter refer interest, domesti of the ASSIGNE for the invention name or names, insert the serial | employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto L TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, red to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and c and foreign, in and to the inventions and discoveries in the above-identified invention including the right EE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent is and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to Lapplication number and filing date of the application to receive Letters Patent herein: Serial No. 332, Filing DateDecember9, 2015), and I hereby sell, assign and set over to the successors, assigns or other legal representatives, all rights of priority, including any provisional and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations epilications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, and reissue applications. |
| including applic- organizations, ar | gree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, ations for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives sary to secure thereto the rights herein sold, assigned and set over. |
| And I hereby rep | present and warrant that I have not granted any rights inconsistent with the rights granted herein. |
| or imprisonment | ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years or both. |
| | OF INVENTOR Tolby Jason Buckman 』 Date: ///で考//5 |
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| Title of Invention | REAR AXLE LUBRICATION OIL TEMPERATURE CONTROL USING EXHAUST HEAT RECOVERY AND A THERMAL BATTERY |
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| This declaration is direct | <u></u> |
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| The at | tached application, or I States application or PCT international application number filed on |
| The above-identified app | olication was made or authorized to be made by me. |
| I hereby state that I have including the claims. | ve reviewed and understand the contents of the specification in the above-identified application, |
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| continuation-in-part apt | o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for oblications, material information which became available between the filing date of the prior onal or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its s for the inventions and d name or names, or in m insert the serial/applica 14/964, 332 ASSIGNEE, its success | ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and preign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent iscoveries in any and all countries, entities and intergovernmental organizations, in its or their own y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ation number and filling date of the application to receive Letters Patent herein: Serial No. ——————————————————————————————————— |
| 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. |
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| LEGAL NAME OF IN | 200 |
| | Henry Demitroff Date: No. 14, 2015 |
| Signature: | und Degert fl |
| Note: An Application Da | ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |
| Use an additional declaration | ion form for each additional inventor. |

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| including applications for organizations, and to pe | or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental rform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives lecure thereto the rights herein sold, assigned and set over. |
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| or imprisonment of not r | nat 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: Amey Y | Kamik Date: 12/03/2015 |
| Signature: | rik_ |
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| 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 | disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for dications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application. |
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| Signature: | and Sharidan |
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