### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7619084

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

### **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| JESSE D.L. BRUNAIS     | 10/27/2022     |
| STEPHEN MICHAEL CICALA | 10/28/2022     |
| LEONARD DZIUBINSCHI    | 10/28/2022     |
| CORY BENSON LAROCHE    | 10/27/2022     |
| BRADLEY DEAN RIEDLE    | 10/31/2022     |
| MICHAEL SIMON          | 10/28/2022     |
| JIANPING ZHANG         | 10/27/2022     |

### **RECEIVING PARTY DATA**

| Name:           | FORD GLOBAL TECHNOLOGIES, LLC |
|-----------------|-------------------------------|
| Street Address: | 1 AMERICAN ROAD FL4           |
| City:           | DEARBORN                      |
| State/Country:  | MICHIGAN                      |
| Postal Code:    | 48126-2701                    |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 17977397 |

### **CORRESPONDENCE DATA**

**Fax Number:** (248)358-3351

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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Address Line 4: SOUTHFIELD, UNITED STATES 48075-1238

| ATTORNEY DOCKET NUMBER: | 84488915           |
|-------------------------|--------------------|
| NAME OF SUBMITTER:      | JAMES A. BERTINO   |
| SIGNATURE:              | /James A. Bertino/ |
| DATE SIGNED:            | 10/31/2022         |

# Total Attachments: 7 source=84488915\_FMC10543PUS\_Assign#page1.tif source=84488915\_FMC10543PUS\_Assign#page2.tif source=84488915\_FMC10543PUS\_Assign#page3.tif source=84488915\_FMC10543PUS\_Assign#page4.tif source=84488915\_FMC10543PUS\_Assign#page5.tif source=84488915\_FMC10543PUS\_Assign#page6.tif source=84488915\_FMC10543PUS\_Assign#page7.tif

| Attorney Docket Number | 84488915 |
|------------------------|----------|

| Title of Invention   | POWERTRAIN TORQUE CONTROL DURING A TRANSMSSIC   | ON SHIFT       |
|--|---|----------------|
| This declaration is direct   | cted to:  |                |
| United   | attached application, or ed States application or PCT international application number filed on (I hereby authorize the insertion of the application fi when they become known.)  | ling date and  |
| The above-identified app   | oplication was made or authorized to be made by me.   |                |
| I hereby state that I have including the claims.   | ave reviewed and understand the contents of the specification in the above-identified   | 1 application, |
| I believe that I am the ori  | original inventor or an original joint inventor of a claimed invention in the application.  |                |
| continuation-in-part app   | to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, eplications, material information which became available between the filing date ional or PCT international filing date of the continuation-in-part application.   |                |
| FORD GLOBAL TECH of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applications, its success applications, in and to the including all application reexaminations and reisser  | 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. |                |
| 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.   |   |                |
|  | that any willful false statement made in this declaration is punishable under 18 U.S.C. more than five (5) years or both.   | 1001 by fine   |
| LEGAL NAME OF INV Inventor:Jesse D.L   |   |                |
|  | D.L. Brunais/   |                |
|  |   |                |
|  | ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accomp  | any this form. |

| Attorney Docket Number | 84488915 |
|------------------------|----------|

| Title of Invention   | POWERTRAIN TORQUE (   | CONTROL DURING A TRANSMSSION SHIFT  |
|--|---|---|
| This declaration is direct   | ed to:  |   |
| United   | tached application, or I States application or PCT internation filed on (I her nen they become known.)  | nal application number eby authorize the insertion of the application filing date and   |
| The above-identified app   | lication was made or authorized to be   | made by me.   |
| I hereby state that I have including the claims.   | re reviewed and understand the cont   | ents of the specification in the above-identified application,  |
| I believe that I am the ori  | ginal inventor or an original joint inv   | entor of a claimed invention in the application.  |
| continuation-in-part app   |   | ial to patentability as defined in 37 C.F.R. 1.56, including for<br>ch became available between the filing date of the prior<br>the continuation-in-part application. |
| FORD GLOBAL TECHT of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applications, its success applications, in and to the including all application reexaminations and reisser   | 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. |   |
| 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.   |   |   |
|  | at any willful false statement made in nore than five (5) years or both.  | n this declaration is punishable under 18 U.S.C. 1001 by fine   |
| LEGAL NAME OF INV Inventor: Stephen M  | ENTOR<br>Michael Cicala   | Oct-28-2022   |
| <del>-</del>   | n Michael Cicala/   |   |
|  |   |   |
|  | a Sheet (PTO/SB/14 or equivalent), inclu  | ding naming the entire inventive entity, must accompany this form.  |

| Attorney Docket Number | 84488915 |
|------------------------|----------|

| Title of Invention   | POWERTRAIN TORQUE CONTRO  | OL DURING A TRANSMSSION SHIFT  |  |
|--|---|--|--|
| This declaration is direct   | ed to:  |  |  |
| United   | tached application, or I States application or PCT international applica filed on (I hereby authorhen they become known.)   | tion number rize the insertion of the application filing date and  |  |
| The above-identified app   | olication was made or authorized to be made by  | me.  |  |
| I hereby state that I have including the claims.   | re reviewed and understand the contents of the  | e 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.  |  |
| continuation-in-part app   | 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.  |  |  |
| FORD GLOBAL TECH of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applications, it is success applications, in and to the including all application reexaminations and reisser  | NOLOGIES, LLC, a Ford Motor Company subset, having its principal place of business at Dest the ASSIGNEE, its successors, assigns or otreign, in and to the inventions and discoveries in accessors, assigns or other legal representatives scoveries in any and all countries, entities and it mame, at its or their election (and I hereby aut tion number and filing date of the application, Filing Date  sors, assigns or other legal representatives, are inventions and discoveries in any and all countries claiming benefit of the filing date hereof the applications. | 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 in 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. |  |
| 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 decl<br>more than five (5) years or both.  | aration is punishable under 18 U.S.C. 1001 by fine   |  |
| LEGAL NAME OF INV Inventor: Leonard I  | ENTOR<br>Dziubinschi  | 10/28/22<br>Date:  |  |
|  | rd Dziubinschi/   |  |  |
|  |   |  |  |
|  | a Sheet (PTO/SB/14 or equivalent), including namin  | g the entire inventive entity, must accompany this form.   |  |

| Attorney Docket Number | 84488915 |
|------------------------|----------|

| Title of Invention  | POWERTRAIN TORQUE CONTROL DURING A TRANSMSSION SHIFT  |  |
|---|---|--|
| This declaration is direct  | ed to:  |  |
| X 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 app  | lication was made or authorized to be made by me.   |  |
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| I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.  |   |  |
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| FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applications. ASSIGNEE, its success applications, in and to the including all application reexaminations and reissue.  And I hereby agree for the state of | nyself, 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 as   | nd warrant that I have not granted any rights inconsistent with the rights granted herein.  |  |
|   | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.            |  |
| LEGAL NAME OF INV Inventor: Cory Ben  | ENTOR son LaRoche Date: 10/27/2022  |  |
| •   | enson LaRoche/  |  |
|   |   |  |
|   | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. n form for each additional inventor. |  |

| Attorney Docket Number | 84488915 |
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| Title of Invention   | POWERTRAIN TORQUE CO   | NTROL DURING A TRANSMSSION SHIFT   |
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| This declaration is direct   | ed to:   |  |
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| continuation-in-part app   |  | to patentability as defined in 37 C.F.R. 1.56, including for became available between the filing date of the prior continuation-in-part application.   |
| FORD GLOBAL TECH of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applications, its success applications, in and to the including all application reexaminations and reisser  | NOLOGIES, LLC, a Ford Motor Compare, having its principal place of business is the ASSIGNEE, its successors, assignate reign, in and to the inventions and discoveressors, assigns or other legal represent scoveries in any and all countries, entitied name, at its or their election (and I here tion number and filing date of the approximate inventions and discoveries in any and and claiming benefit of the filing date use applications. | contractual obligation, I do sell, assign and set over unto my subsidiary, organized and existing by virtue of the laws at Dearborn, County of Wayne, and State of Michigan, is or other legal representatives, the entire right, title and exercise in the above-identified invention including the right extatives to make applications and to receive Letters Patent and intergovernmental organizations, in its or their own eby authorize the ASSIGNEE or ASSIGNEE's attorney to 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. |  |  |
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|  | at any willful false statement made in the nore than five (5) years or both.   | is declaration is punishable under 18 U.S.C. 1001 by fine  |
| LEGAL NAME OF INV<br>Inventor: Bradley I   | ENTOR<br>Dean Riedle   | 10/31/2022<br>Date:  |
| <u> </u>   | / Dean Riedle/   |  |
|  |  |  |
|  | a Sheet (PTO/SB/14 or equivalent), including on form for each additional inventor.   | g naming the entire inventive entity, must accompany this form.  |

| Attorney Docket Number | 84488915 |
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| FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its si for the inventions and di name or names, or in my insert the serial/applica  ASSIGNEE, its succes applications, in and to th including all application reexaminations and reiss   |   |  |
| 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 n   | nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both. |  |
| LEGAL NAME OF INV<br>Inventor: Michael S   |   |  |
|  | el Simon/   |  |
| Note: An Application Dat   | a 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.   |   |  |

**RECORDED: 10/31/2022** 

| Attorney Docket Number | 84488915 |
|------------------------|----------|

# 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   | POWERTRAIN TORQUE CONTROL DURING A TRANSMSSION SHIFT   |  |
|--|--|--|
| This declaration is directed to:   |  |  |
| X 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.  |  |  |
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| FORD GLOBAL TECH of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/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 e, 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 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 or name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the storm of the property of the storm of the legal representatives, all rights of priority, including any provisional to the 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, the 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. |  |  |
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| 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: Jianping 2   |  |  |
|  | g Zhang/   |  |
|  |  |  |
|  | a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.   |  |