PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2996103

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| WALTER JOSEPH ORTMANN | 08/25/2014 |
| BERNARD D. NEFCY | 08/25/2014 |
| BRIAN RICHARD LIGHT | 08/25/2014 |
| BRIAN THOMAS SOO | 08/25/2014 |

RECEIVING PARTY DATA

| Name: | FORD GLOBAL TECHNOLOGIES, LLC |
|-------------------|---------------------------------|
| Street Address: | 330 TOWN CENTER DRIVE |
| Internal Address: | SUITE 800, FAIRLANE PLAZA SOUTH |
| City: | DEARBORN |
| State/Country: | MICHIGAN |
| Postal Code: | 48126 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14468203 |

CORRESPONDENCE DATA

Fax Number: (248)988-8363

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: 248-988-8360

Email: docket@cgolaw.com

Correspondent Name: CARLSON, GASKEY & OLDS, P.C./FORD

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SUITE 350 Address Line 2:

Address Line 4: BIRMINGHAM, MICHIGAN 48009

| ATTORNEY DOCKET NUMBER: | 83461655; 67186-119 PUS1 |
|-------------------------|--|
| NAME OF SUBMITTER: | BENJAMIN J. COON |
| SIGNATURE: | /Benjamin J. Coon/ |
| DATE SIGNED: | 08/25/2014 |
| | This document serves as an Oath/Declaration (37 CFR 1.63). |

Total Attachments: 4

PATENT

REEL: 033605 FRAME: 0014 502949505



Please direct all correspondence to:

46442

| Attorney Docket Number | 83461655 |
|------------------------|---------------|
| | 67186-119PUS1 |

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)

| eneron inventeda | ELECTRIFIED VERICLE POWERTRAIN CLUTCR |
|--|--|
| This declaration is dir | ected to: |
| ☐ Un | e attached application, or size of the state of the states application of the 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 including the claims. | have 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-part | y to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for applications, material information which became available between the filing date of the prior tional or PCT international filing date of the continuation-in-part application. |
| FORD GLOBAL TEG of the State of Delay hereinafter referred to interest, domestic and of the ASSIGNEE, it for the inventions and name or names, or in insert the serial/appl 14468203 ASSIGNEE, its succe applications, in and to including all applicate reexaminations and re | |
| including application organizations, and to | or myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, is for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives o secure thereto the rights herein sold, assigned and set over. |
| And I hereby represer | it 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. 1001 by fine at more than five (5) years or both. |
| LEGAL NAME OF I | SVENTOR O / / / / |
| Inventor: Walter | Joseph Ortgräns Date: 2/25//7 |
| Signature: //// | |
| | Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |

| | | correspondence to | |
|--|--|-------------------|--|
| | | | |

46442

| Attorney Docket Number | 83461655 | · · · · · · · · · · · · · · · · · · · |
|------------------------|---------------|---------------------------------------|
| | 67186-119PUS1 | |

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 ELECTRIFIED VEHICLE POWERTRAIN CLUTCH |
|--|
| 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. 14468203 , Filing Date August 25, 2014), 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: Bernard D. Nefcy Date: 8/5/2014 |
| 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. |

46442

Title of Invention

| Attorney Docket Number | 83461655 |
|------------------------|---------------|
| 1 2. 1 11.2 11 2 | 67186-119PUS1 |

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)

ELECTRIFIED VEHICLE POWERTRAIN CLUTCH

| 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. 14468203 , 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: Brian Richard Light - 1 Date: 9/05/00/04 |
| Inventor: Brian Richard Light Date: 570% 780 14 |
| |
| Note: An Application Data Shoot (PTO/SB/14 or equivalent), indegling naming the entire inventive entity, must accompany this form. Use an additional declaration from for each additional invasion. |
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| Attorney Docket Number | 83461655 |
| | 67186-119PUS1 |

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 | ELECTRIFIED VEHICLE POWERTHAIN CLUTCH |
|--|---|
| This declaration is directed to: | |
| ⊠ The at ☐ United | tached application, or States application or PCT international application number filed on |
| The above-identified app | dication was made or authorized to be made by me. |
| I hereby state that I has including the claims. | re 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 and | 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. |
| FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its s for the inventions and d name or names, or in m insert the serial/applica 14468203 ASSIGNEE, its success | 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, is the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and breign, 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 the number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date August 25, 2014 August 25, 2014 August 25, continuations, including any provisional me inventions and discoveries in any and all countries, entities and intergovernmental organizations and claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, one applications. |
| including applications f | myself, 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 afform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives 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 to | hat 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 IN | THE TOP ATT |
| | $\frac{8/25}{25} = \frac{25}{20} = \frac{14}{20}$ |
| | |
| Signature: | · Application |
| Marie An Ameliantian Co. | ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. |
| Use an additional declarate | on form for each additional inventor. |

PATENT REEL: 033605 FRAME: 0019

RECORDED: 08/25/2014