502616020 12/30/2013

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2662602

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------------------|----------------|
| DONATUS ANDREAS JOSEPHINE KEES | 12/19/2013 |
| JAMES ANDREW STRAKER | 12/19/2013 |
| DANIEL BENJAMIN KOK | 12/19/2013 |

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14143365 |

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| ATTORNEY DOCKET NUMBER: | 83409884 |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | MAXFIELD FULTON |
| Signature: | /Maxfield Fulton/ |

502616020 PATENT REEL: 031858 FRAME: 0175 \$40 00 141433

| Date: | 12/30/2013 |
|---|------------|
| Total Attachments: 3 source=Executed Assignment 83409884#pa source=Executed Assignment 83409884#pa source=Executed Assignment 83409884#pa | age2.tif |

PATENT REEL: 031858 FRAME: 0176 Please direct all correspondence to customer number: 36865

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|---------------|--------|------|
| Jocket Number | 834098 | |

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Inventi | on Mi | ETHOD AND APPARAT | US FOR STARTING AN ENGINE |
|--|--|--|--|
| This declaration i | s directed to: | ······ | |
| | The attached application United States application | or or PCT international application filed on | n number |
| The above-identi | fied application was made | or authorized to be made by me | |
| I hereby state the including the claim | at I have reviewed and oms. | inderstand the contents of the s | specification in the above-identified application, |
| I believe that I an | n the original inventor or a | an original joint inventor of a cla | inted invention in the application. |
| continuation-in-p | art applications, materia | tion which is material to patental l information which became a tional filing date of the continual | bility as defined in 37 C.F.R. 1.56, including for available between the filing date of the prior tion-in-part application. |
| of the State of E hereinafter referrinterest, domestic of the ASSIGNE for the inventions name or names, consert the serial/14/143,365 Application No. successors, assignmentions and diclaiming benefit applications. And I hereby agrincluding application application application applications. | TECHNOLOGIES, LLC belaware, having its princed to as the ASSIGNEE, and foreign, in and to the E, its successors, assigns and discoveries in any application number and filling Dat 1300414.8, filled on James or other legal represent scoveries in any and all cof the filling date hereoveries for myself, my heirs, tions for Letters Patent of | a Ford Motor Company subsidi- ipal place of business at Dearb its successors, assigns or other e inventions and discoveries in t- or other legal representatives to ad all countries, entities and inte- eir election (and I hereby author filing date of the application of December 30, 2013 ary 10, 2013), and I hereby so atives, all rights of priority, incleaning, continuations— countries, entities and intergover f, continuations, continuations— successors, assigns or other legal f any and all kinds and in any a | obligation, I do sell, assign and set over unto lary, organized and existing by virtue of the laws own. County of Wayne, and State of Machigan, I legal representatives, the entire right, tole and he above-identified invention including the stant make applications and to receive Letters Pasent ergovernmental organizations, in its or their assaurize the ASSIGNEE or ASSIGNEE's attornes to to receive Letters Patent herein: Serial Solution receive Letters Patent herein: Serial Solution receive Letters Patent herein: Serial Solution assign and set over to the ASSIGNEE as utding any provisional applications, in and as the omental organizations including all applications in-part, divisionals, reexaminations and assisted all representatives to execute any and all papers, and all countries, entities and intergovernmental |
| organizations, an may deem necess | d to perform any and all a ary to secure thereto the ri | acts which the ASSIGNEE, its s ights herein sold, assigned and so | successors, assigns or other legal representatives of over: |
| And I hereby repr | esent and warrant that I h | ave not granted any rights incom | sistem with the rights granted herein. |
| I hereby acknowl or imprisonment | edge that any willful falso of not more than five (5) y | s statement made in this declara ears or both | ation is punishable under 18 U.S.C. 1001 by fine |
| LEGAL NAME (| OF INVENTOR | | |
| | onatus Andreas Josephine | Kees | Date: 19/12/2013 |
| Signature: | Albert - | | × |
| Note: An Applican Use an additional d | ion Data Sheet (PTO/SB/14 | or equivalent), including naming the | he entire inventive entity, most accompany in Sense. |

PATENT REEL: 031858 FRAME: 0177 Please direct all correspondence to customer number: 36865

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|---------------------------|----------|---------------------------------------|
| Attorney Docket Number | 83409884 | |

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Inventi | on METHOD AND APPARATUS FOR STARTING AN ENGINE |
|---|--|
| This declaration i | s directed to: |
| | The attached application, or United States application or PCT international application number filed on |
| The above-identi | fied application was made or authorized to be made by me. |
| I hereby state the including the claim | at I have reviewed and understand the contents of the specification in the above-identified application, ms. |
| I believe that I an | the original inventor or an original joint inventor of a claimed invention in the application. |
| continuation-in-p | e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for art applications, material information which became available between the filing date of the prior are national or PCT international filing date of the continuation-in-part application. |
| PORD GLOBAL of the State of E hereinafter referrinterest, domestic of the ASSIGNE for the inventions name or names, consert the serial 14/143, 365 Application No. successors, assigniventions and diclaiming benefit applications. | remployment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws belaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan, ed to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and and foreign, in and to the inventions and discoveries in the above-identified invention including the right E, its successors, assigns or other legal representatives to make applications and to receive Letters Patents is and discoveries in any and all countries, entities and intergovernmental organizations, in its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attories; so application number and filing date of the application to receive Letters Patent herein: Serial No. 5, Filing Date December 30, 2013, which claims priority to Great Britain Machine 1300414.8, filed on January 10, 2013), and I hereby sell, assign and set over to the ASSIGNEE as no or other legal representatives, all rights of priority, including any provisional applications, in and to the iscoveries in any and all countries, entities and intergovernmental organizations including all applications of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and advances are for myself, my heirs, successors, assigns or other legal representatives to execute any and all successors for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental c |
| organizations, an | d 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 | resent 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. |
| LEGAL NAME | |
| Inventor: Ja | imes Andrew Straker Date: 19/12/2013 |
| Signature: | AP/E |
| | tion Data Sheet (PTO/SB/14 or equivalent), including numing the entire inventive entity, must accompany \$55,5000 lectoration form for each additional inventor. |

PATENT REEL: 031858 FRAME: 0178

| Attorney Docket Number 83409884 | |
|---------------------------------|--|
| | |

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

| Title of Invention | METHOD AND APPARATUS FOR STARTING AN ENGINE |
|---|---|
| This declaration is direct | red to; |
| | ttached application, or 1 States application or PCT international application number filed on |
| The above-identified app | plication 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, |
| 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 | 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. |
| of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its surfor the inventions and diname or names, or in my insert the serial/applicat 14/143, 365 Application No. 130041 successors, assigns or other inventions and discoveries. | 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 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 December 30, 2013, which claims priority to Great Britain Patent 4.8, filed on January 10, 2013), and I hereby sell, assign and set over to the ASSIGNEE, its ner legal representatives, all rights of priority, including any provisional applications, in and to the sin any and all countries, entities and intergovernmental organizations including all applications filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue |
| including applications for organizations, and to per | nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, r 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 an | nd warrant that I have not granted any rights inconsistent with the rights granted herein. |
| or imprisonment of not m | at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both. |
| LEGAL NAME OF INVI Inventor: Daniel Be | njamin Kok Date: 19 Dec 2013 |
| hannis and | Date. 19 Dec 2013 |
| Signature: | |
| Note: An Amalication Posts | Shoot (PTO/SP/14 or againstant) in all the second of |
| Use an additional declaration | Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. I form for each additional inventor. |

RECORDED: 12/30/2013 REEL: 031858 FRAME: 0179