### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2712564

SUBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
DENNIS CRAIG REED	02/03/2014
JEFFREY ALLEN DOERING	01/30/2014
DAVID OSHINSKY	01/23/2014
ADAM NATHAN BANKER	02/03/2014

### **RECEIVING PARTY DATA**

Name:	FORD GLOBAL TECHNOLOGIES, LLC
Street Address:	FAIRLANE PLAZA SOUTH, SUITE 800
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City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

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

Property Type	Number
Application Number:	14172337

### **CORRESPONDENCE DATA**

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 fulton@ahmrt.com

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Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

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Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83415844
NAME OF SUBMITTER:	MAXFIELD FULTON

PATENT 502665956 REEL: 032136 FRAME: 0941

Signature:	/Maxfield Fulton/
Date:	02/04/2014
Total Attachments: 4 source=Executed Assignment 83415844#page1.tif source=Executed Assignment 83415844#page2.tif source=Executed Assignment 83415844#page3.tif source=Executed Assignment 83415844#page4.tif	

Attorney Docket Number	83415844

# 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	SYSTEMS AND METHODS FOR IMPROVING ENGINE STARTING
This declaration is direct	ed to:
· · · · · · · · · · · · · · · · · · ·	tached application, or
☐ United	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 havincluding the clasms.	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 oblications, material information which became available between the filing date of the prior and 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 my insert the serial/application of the serial application of the serial applications, in and to the serial applications, in and to the serial applications, in and to the serial applications.	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 oreign, 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 by name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to atten number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
including applications for organizations, and to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental arform 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 a	and warrant that I have not granted any rights inconsistent with the rights granted herein.
	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 INV	/ENTOR - / / / / / / /
Inventor: <u>Dennist</u>	Traig Reed Date: 4 CO//
Signature:	www.Company.com/
	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declarati	on form for each additional inventor,

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Attorney Docket Number	83415844

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This declaration is direct	ed to:
United	states application, or 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.	re reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the on	ginal 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 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.
FORD GLOBAL TECH of the State of Delaward hereinafter referred to a interest, domestic and for of the ASSIGNEE, its story the inventions and diname or names, or in my insert the serial/applications and to the serial succession of the serial succe	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 secoveries in any and all countries, entities and intergovernmental organizations, in its or their own mame, 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.  ———————————————————————————————————
including applications for organizations, and to per	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 form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure thereto the rights herein sold, assigned and set over.
And I hereby represent a	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 nore than five (5) years or both.
LEGAL NAME OF INV	ENTOD
Inventor:lefficexA	
Signature:	Language Commencer and the Com
<u> </u>	4. ————————————————————————————————————
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, or form for each additional inventor.

Attorney Docket Number	83415844

## 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	SYSTEMS AND METHODS FOR IMPROVING ENGINE STARTING
This declaration is di	rected to:
	e attached application, or ited 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	e original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part	ty 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 ational or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TE 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/app 14/172, 337  ASSIGNEE, its successful applications, in and to	CHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws ware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, o as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and differeign, in and to the inventions and discoveries in the above-identified invention including the right ts successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own any name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to dication 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 represen	nt and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of n	e that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ot more than five (5) years or both.
LEGAL NAME OF I	
Inventor: <u>David</u>	Oshinsky Date: <u>1/23/2014</u>
Signature:	JA. Oshnot
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

RECORDED: 02/04/2014

Attorney Docket Number	83415844

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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. 14/172,337, Filing Date February 4, 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 INV Inventor: Adam Na	than Banker Date: February 3, 2014
	Banker
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.	