#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2987301

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MARK STEVEN YAMAZAKI	08/09/2014
JEFFREY ALLEN DOERING	08/13/2014
WEI LIANG	08/08/2014
RAJIT JOHRI	08/11/2014
XIAOYANG WANG	08/11/2014
MING LANG KUANG	08/15/2014
SCOTT THOMPSON	08/06/2014
DAVID OSHINSKY	08/07/2014
DENNIS REED	08/13/2014
ADAM BANKER	08/18/2014

#### **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:	14462405	

#### **CORRESPONDENCE DATA**

**Fax Number:** (503)459-4142

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: 503-459-4141 Fulton@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

Address Line 1: 806 S.W. BROADWAY, SUITE 600 Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER: 83461157

PATENT
REEL: 033562 FRAME: 0872

502940703

NAME OF SUBMITTER:	MAXFIELD FULTON		
SIGNATURE:	/Maxfield Fulton/		
DATE SIGNED:	08/19/2014		
Total Attachments: 10			
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Attorney Docket Number 834	61157
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Title of Invention METHODS AND SYSTEMS FOR STARTING AN ENGINE				
This declaration is dire	cted to:			
	attached application, or ed States application or PCT international application number filed on			
The above-identified a	oplication was made or authorized to be made by me.			
I hereby state that I h including the claims.	ave 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 ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for oplications, 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 TEC of the State of Delawa hereinafter referred to interest, domestic and sof the ASSIGNEE, its for the inventions and name or names, or in rinsert the serial/applications, in and to including all applications and reise And I hereby agree for including applications	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			
may deem necessary to	erform 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 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 more than five (5) years or both.			
LEGAL NAME OF IN Inventor: Mark St				
Signature:	even Yamazaki Date: 8/9/30/9			
	1 00 13			
Note: An Application De Use an additional declarate	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. ion form for each additional inventor.			

83461157

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ford GLOBAL TECT of the State of Delaws hereinafter referred to interest, domestic and of the ASSIGNEE, its for the inventions and name or names, or in rinsert the serial/applications, its succeapplications, in and to	yment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, 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 foreign, 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 discoveries in any and all countries, entities and intergovernmental organizations, in its or their own man, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ration 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. 1001 by fine more than five (5) years or both.			
LEGAL NAME OF IN	VENTOR ISA			
Inventor: Jeffrey	Allen Dogrine Date: 13 Huc 2014			
Signature:	W/U/			
Maria An Ameliantine T	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.			
	tion form for each additional inventor.			

Attorney Docket Number	83461157	
TARREST AND AND AND A STREET AND ASS.	(a.t. )	 

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Un Un	attached application, or ted States application or PCT international application number filed on			
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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 14/462,405  ASSIGNEE, its succepplications, in and to including all applications and research and I hereby agree including application organizations, and to	chnologies, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, 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 foreign, in and to the inventions and discoveries in the above-identified invention including the right is 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 my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ication number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————			
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or imprisonment of a	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of more than five (5) years or both.			
LEGAL NAME OF I	60 CA 7 A CO 7			
Inventor: Wei	<u>liang</u> Date: 06/04/2014			
Signature:				
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form,			

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Attorney Docke	t Number	834	61157	

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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its a for the inventions and diname or names, or in my insert the serial/applications and the serial of the ASSIGNEE, its success applications, in and to the serial of the	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 uccessors, 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 tion number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date August 18, 2014 ), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional te 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, we applications.				
including applications for organizations, and to pe	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 rform 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	nd warrant that I have not granted any rights inconsistent with the rights granted herein.				
or imprisonment of not r	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	Po (A, Z, X,				
Inventor: Rajit Joh					
Signature: \square	Sally 2				
Note: An Application Dat Use an additional declaration	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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A 45	YS	
- Amorney	Docket Number	83461157

Title of Invention	METHODS AND SYSTEMS FOR STARTING AN ENGINE			
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The above-identified app	lication was made or authorized to be made by me.			
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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 Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its sifer the inventions and diname or names, or in my insert the serial/applica 14/462,405  ASSIGNEE, its successapplications, in and to the	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 lawse, 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 mame, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the filing date of the application to receive Letters Patent herein: Serial No , Filing Date August 18, 2014 ), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional to inventions and discoveries in any and all countries, entities and intergovernmental organizations as claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals the applications.			
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 intergovernmentation of 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.			
or imprisonment of not n	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 Inventor: Xiaoyons	XX			
Signature:	Commence to			
Note: An Application Date	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form form for each additional inventor.			

Attorney Docket Number	83461157
A TOTOLING & TOLOGOGO LICENTICOL	W C C C C C C C C C C C C C C C C C C C

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including applications 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 erform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.		
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LEGAL NAME OF IN	VENTOR Q/, F/m ///		
	ing Keang Date: 9/0/4		
Signature: 4/15			
Notes As Start and St	ta Shect (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		
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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 diname or names, or in my insert the serial/applications and the serial succession of the serial successio	ment 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 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 attoin number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date August 18, 2014, and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional me 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, are applications.		
including applications for organizations, and to pe	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 rform 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.		
I hereby acknowledge the	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			
Inventor: Scott The			
Signature:			
Note: An Application Da Use an additional declarati	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.		

Attorney Docket Number	83461157

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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. $14/462/405$ , Filing Date August $18/2014$ ), 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.		
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	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		
Inventor: <u>David Os</u>	<u>Shinsky</u> Date: <u>8-7-2014</u>	
Signature: David	4. Ochnot	
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. on form for each additional inventor.	

PATENT

ب	Attorney	Docke	t Number	157		

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FORD GLOBAL 1 of the State of De hereinafter referred interest, domestic a of the ASSIGNEE for the inventions a name or names, or insert the serial/ap 14/462,405  ASSIGNEE, its sapplications, in and including all appli	rechnologies, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws daware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, d 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, its successors, assigns or other legal representatives to make applications and to receive Letters Patent and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to pplication number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
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LEGAL NAME OF	
Inventor: Den	unis Reed / Date: 25 /3 - /4
Signature:	4
Note: An Applicatio Use an additional dec	m Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. laration form for each additional inventor.

RECORDED: 08/19/2014

Attorney Docket Number	83461157

### 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	METHODS AND SYSTEMS FOR STARTING AN ENGINE
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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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LEGAL NAME OF INV	
Inventor: Adam Ba	nker Date: <u>8/18/2014</u> ———————————————————————————————————
Signature:	er sees contracts - Seesan'i
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