PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3298598

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GREGORY MICHAEL PIETRON	10/08/2012
ADAM NATHAN BANKER	10/08/2012
DENNIS CRAIG REED	10/14/2012
SEUNG-HOON LEE	10/09/2012
JAMES WILLIAM LOCH MCCALLUM	10/09/2012

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:	14679475

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 Email: enabnit@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

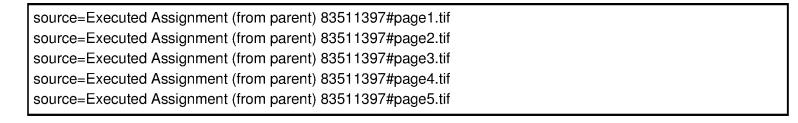
Address Line 1: 806 S.W. BROADWAY, SUITE 600 Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83511397
NAME OF SUBMITTER:	JIBEK ENABNIT
SIGNATURE:	/Jibek Enabnit/
DATE SIGNED:	04/06/2015

Total Attachments: 5

PATENT REEL: 035340 FRAME: 0860

503251980



Attorney Docket Number	83242878

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)

This declaration is directed to: X 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		
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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. 13/652,334 , Filing Date October 15, 2012), 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: Gregory Michael Pietron Date: 8942012		
Signature:		
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an aciditional declaration form for each additional inventor.		

Title of Invention

Attorney Docket Number

83242878

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	METHODS AND SYSTEMS FOR A VEHICLE DRIVELINE			
This declaration is directed to:				
X Th	ne attached application, or			
□ Ur —	nited 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 h claims.	nave reviewed and understand the contents of the specification in the above-identified application, including the			
I believe that I am the	e original inventor or an original joint inventor of a claimed invention in the application.			
continuation-in-part	duty 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 application and international filing date of the continuation-in-part application.			
GLOBAL TECHNO Delaware, having its ASSIGNEE, its succe the inventions and d other legal represent countries, entities and (and I hereby author application to receive and I hereby sell, ass including any provi intergovernmental or	loyment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD LOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the essors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to iscoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or atives to make applications and to receive Letters Patent for the inventions and discoveries in any and all d intergovernmental organizations, in its or their own name or names, or in my name, at its or their election rize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the Letters Patent herein: Serial No. 13/652,334 , Filing Date October 15, 2012), tign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, isional applications, in and to the inventions and discoveries in any and all countries, entities and ganizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-terminations 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.				
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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 I	NVENTOR			
Inventor: A	dam Nathan Banker Date: 6/02/2012			
Signature:	L-Valla Best			
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an orm for each additional inventor.			

Docket Nurr	83242878	

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)

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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. 13/652,334 , Filing Date October 15, 2012), 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.		
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LEGAL NAME C	DF INVENTOR	
Inventor:	Dennis Craig Reed Date: 10/14/2012	
Signature:	D-Coz 321/	
Note: An Applicat additional declaration	ion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an outform for each additional inventor.	

Title of Invention

This declaration is directed to:

***************************************	 ***************************************
Attorney	83242878

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)

METHODS AND SYSTEMS FOR A VEHICLE DRIVELINE

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I hereby state that claims.	t I have reviewed and understand the contents of the specification in the above-identified application, including the
I believe that I ar	n the original inventor or an original joint inventor of a claimed invention in the application.
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Delaware, having ASSIGNEE, its sthe inventions an other legal representation to recamplication to recamplication to recamplication to recamplication to recamplication to recamplication and part, divisionals, and I hereby agree applications for Legerform any and statement the rights. And I hereby representations in the recamplications for Legerform any and statement the rights.	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the uccessors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or sentatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election thorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the eive Letters Patent herein; Serial No. 13/652,334 , Filing Date October 15, 2012, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, rovisional applications, in and to the inventions and discoveries in any and all countries, entities and l organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-reexaminations and reissue applications. The form my heirs, successors, assigns or other legal representatives to execute any and all papers, including etters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure herein sold, assigned and set over. The form my heirs are constructed any rights inconsistent with the rights granted herein. The form my than five (5) years or both.
raventor:	Seung-Hoon Lee Date: 10/9/12
Signature:	
Vote: An Applicati Sditional declaration	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an inform for each additional inventor.

RECORDED: 04/06/2015

Attorney Docket Number	83242878

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GLOBAL TECH Delaware, having ASSIGNEE, its s the inventions an other legal repres countries, entities (and I hereby au application to rec- and I hereby sell, including any p- intergovernmenta part, divisionals, r	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the uccessors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or sentatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election thorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the eive Letters Patent herein: Serial No. 13/652,334 , Filing Date October 15, 2012), assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, rovisional applications, in and to the inventions and discoveries in any and all countries, entities and I organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-inversaminations and reissue applications.
applications for L perform any and	ee for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including etters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure herein sold, assigned and set over.
And I hereby repr	esent and warrant that I have not granted any rights inconsistent with the rights granted herein.
imprisonment of r	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years or both.
LEGAL NAME O	Jr INVENTOR
Inventor:	James William Loch McCallum Date: つまる
Signature:	55014
Note: An Applicat	ion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an