504115000 11/29/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOE F. STANEK	02/18/2013
JEFFREY ALLEN DOERING	02/12/2013
TONY LOCKWOOD	03/26/2013
SAM HASHEMI	02/18/2013

RECEIVING PARTY DATA

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City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15364053

CORRESPONDENCE DATA

Fax Number: (503)459-4142

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ATTORNEY DOCKET NUMBER:	83755943
NAME OF SUBMITTER:	CAITLIN PARRY
SIGNATURE:	/CAITLIN PARRY/
DATE SIGNED:	11/29/2016

Total Attachments: 4

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PATENT REEL: 040456 FRAME: 0587

EPAS ID: PAT4161670

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Attorney Docket Number	N4287B81
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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 SYSTEM FOR IMPROVING VEHICLE OPERATION										
This declaration is direc	ied to:										
[United	tached application, or I States application or PCT international application number filed on										
The above-identified ap	plication was made or authorized to be made by me.										
I hereby state that I ha 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	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 for the ASSIGNEE, its a for the inventions and display name or names, or in minsert the serial/applica 13/851,784 ASSIGNEE, its success applications, in and to display not including all application reexaminations and reiss											
including applications f 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.										
	nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine note than five (5) years or both.										
LEGAL NAME OF INV	and the control of th										
	Date: 12 15										
Signature:											
Note: An Application Da Use an additional declarati	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.										

PATENT REEL: 040456 FRAME: 0590

Attorney Docket Number	83257061

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 SYSTEM FOR IMPROVING VEHICLE OPERATION											
This declaration is direct	ted to:											
☐ United	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 reviewed and understand the contents of the specification in the above-identified application, including the claims.												
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	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 TECHO of the State of Delawar hereinafter referred to a interest, domestic and for the ASSIGNEE, its store the inventions and domain or names, or in minsert the serial/applications and to the including all applications and reiss												
including applications f 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.											
And I hereby represent	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 IN	VENTOR											
Inventor: Tosy La	pekwoon / Dave J- 24 2 2/3											
Signature:	<u> </u>											
	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. ion form for each additional inventor.											

PATENT REEL: 040456 FRAME: 0591 Please direct all correspondence to customer number: 36865

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Attorney Locket Number	\$222 /W51	

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 SYSTEM FOR IMPROVING VEHICLE OPERATION
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 scrial/application number and filing date of the application to receive Letters Patent herein: Serial No. 13/851,784, Filing Date
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: Sam Hashemi Date: 2/18/13
Signature: Ausham
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 REEL: 040456 FRAME: 0592

RECORDED: 11/29/2016