PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY DATA							
N			lame	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							
Name:	Ford Global Te	Ford Global Technologies, LLC					
Street Address:	Fairlane Plaza	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 784				
Application Number: 13851		138517	'84				
CORRESPONDENCE DATA							
Fax Number:	Fax Number: 5034594142 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. 2						
			the fax attempt is unsuccessful.				
Phone: 503-459-4141							
Email: cohen@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:			83257061				
NAME OF SUBMITTER:			Liana Cohen				
Total Attachments: 4 source=Executed Assignment 83257061#page1.tif source=Executed Assignment 83257061#page2.tif source=Executed Assignment 83257061#page3.tif source=Executed Assignment 83257061#page4.tif							

Please direct all correspondence to customer number 18883

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ASSIGNMENT AND DECLARATION OF CAR LADYOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.E.R. 1.76)

METHODS AND SYSTEM FOR IMPROVING VEHICLE OPERATION Title of Invention

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LICAL NAME OF INVESTIGA Intentor Inc. March

REEL: 030099 FRAME: 0444

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 Inventi	ion METHODS /	AND SYSTEM FOR IMPROVING VEHICLE OPERATION				
This declaration is directed to:						
		attached application, or ed 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 th including the clai		inderstand 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-p	art applications, materia	tion which is material to patentability as defined in 37 C.F.R. 1.56, including for 1 information which became available between the filing date of the prior tional filing date of the continuation-in-part application.				
FORD GLOBAL of the State of E hereinafter referr interest, domestic of the ASSIGNE for the invention name or names, o insert the serial <u>13/851,784</u> ASSIGNEE, its applications, in a including all app	TECHNOLOGIES, LLC Delaware, having its princ ed to as the ASSIGNEE, and foreign, in and to th E, its successors, assigns and discoveries in any a min my name, at its or the 'application number and , Filing Dat successors, assigns or nd to the inventions and c	eretofore made or by contractual obligation, 1 do sell, assign and set over unto , a Ford Motor Company subsidiary, organized and existing by virtue of the laws cipal place of business at Dearborn, County of Wayne, and State of Michigan, , its successors, assigns or other legal representatives, the entire right, title and e inventions and discoveries in the above-identified invention including the right or other legal representatives to make applications and to receive Letters Patent and all countries, entities and intergovernmental organizations, in its or their own heir election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to filing date of the application to receive Letters Patent herein: Serial No. te <u>March 27, 2013</u>), and I hereby sell, assign and set over to the other legal representatives, all rights of priority, including any provisional discoveries in any and all countries, entities and intergovernmental organizations fit of the filing date hereof, continuations, continuations-in-part, divisionals,				
including applications and organizations, and	ations for Letters Patent o d to perform any and all	successors, assigns or other legal representatives to execute any and all papers, of any and all kinds and in any and all countries, entities and intergovernmental acts which the ASSIGNEE, its successors, assigns or other legal representatives ights herein sold, assigned and set over.				
And I hereby rep	resent and warrant that I h	ave not granted any rights inconsistent with the rights granted herein.				
or imprisonment	of not more than five (5)	e statement made in this declaration is punishable under 18 U.S.C. 1001 by fine years or both.				
LEGAL NAME (Inventor: <u>le</u>	OF INVENTOR	12 FEB 2013				
Signature:		<u> </u>				

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: 030099 FRAME: 0445

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 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.					
1 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, 1 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. <u>13/851_784</u> , Filing Date <u>March 27, 2013</u> , and I hereby seil, assign and set over to the applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations applications applications and to 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. <u>13/851_784</u> , Filing Date March 27, 2013, and I hereby seil, assign and set over to the 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 re					
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: Tory Lockwood // / Date: 3/26/20/3					
Signature: A. A. Man					
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: 030099 FRAME: 0446 Please direct all correspondence to customer number: 36865

Attorney Docket Number | \$3237051

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, 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. 13/851,784						
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: Sam Hashemi Date: 2/18/13						
Signature: Aun Hashemi						
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: 030099 FRAME: 0447

RECORDED: 03/27/2013