504052421 10/17/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4099085

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BRYAN ROGER GOODMAN	08/10/2016
MELINDA KAYE HUNSAKER	08/10/2016
DAVID MARK NEWTON	08/30/2016
YU-NING LIU	08/16/2016
ESSAM MAHMOUD SABBAGH	08/15/2016
RICKIE ALLAN SPRAGUE	09/10/2016
YAKOV M. FRADKIN	08/16/2016

RECEIVING PARTY DATA

Name:	FORD MOTOR COMPANY
Street Address:	ONE AMERICAN WAY
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15294149

CORRESPONDENCE DATA

Fax Number: (248)358-3351

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: 248-358-4400

Email: docketing@brookskushman.com
Correspondent Name: BROOKS KUSHMAN P.C./FGTL

Address Line 1: 1000 TOWN CENTER

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER:	83735088
NAME OF SUBMITTER:	ANDREW B. TURNER
SIGNATURE:	/Andrew B. Turner/
DATE SIGNED:	10/14/2016

Total Attachments: 7 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif

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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	DECISION DIAGRAM		
This declaration is directed to:			
The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and number into this form when they become known.)			
The above-identified application was made or authorized to be made by me.			
I hereby state that I have including the claims.	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 ori	iginal 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 MOTOR COMPANY, 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. 15/294,149 , Filing Date October 14, 2016), 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 a	nd 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: Bry	ENTOR van Roger Goodman Date: 10 August 2016		
Signature:	an R. Dockney		
	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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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)

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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.		
And I hereby represent a	and warrant that I have not granted any rights inconsistent with the rights granted herein.	
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LEGAL NAME OF INV	VENTOR S/10/2011	
Inventor: Meli	nda Kaye Hunsaker Date: DITO LOIG	
Signature: MCH	Muse	
37. 4	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	
Use an additional declaration	on form for each additional inventor.	

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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.	
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.	
TEGAL NAME OF INVENTOR	
Typerton David Mark Newton	
Signature: 0 M J	
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.	

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place of business at Dea successors, assigns or of inventions and discoverie other legal representative all countries, entities and election (and I hereby audate of the application October 14, 2016 legal representatives, all rany and all countries, entitles and election (on the application october 14, 2016 legal representatives, all rany and all countries, entitles thereof, continuations	nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NY, organized and existing by virtue of the laws of the State of Delaware, having its principal rborn, County of Wayne, and State of Michigan, hereinafter referred to as the ASSIGNEE, its her legal representatives, the entire right, title and interest, domestic and foreign, in and to the s in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or s to make applications and to receive Letters Patent for the inventions and discoveries in any and intergovernmental organizations, in its or their own name or names, or in my name, at its or their thorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing to receive Letters Patent herein: Serial No. 15/294,149 Filing Date , and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other lights of priority, including any provisional applications, in and to the inventions and discoveries in ities and intergovernmental organizations including all applications claiming benefit of the filing , continuations-in-part, divisionals, reexaminations and reissue applications.
including applications for organizations, and to peri	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, 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 cure thereto the rights herein sold, assigned and set over.
And I hereby represent an	d warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not m	t any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both.
LEGAL NAME OF INVI	ing Lin Date: 8/16/2016
Signature:	California Date.
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. form for each additional inventor.

Attorney Docket Number	83735088

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LEGAL NAME OF INV	VENTOR m Mahmoud Sabbagh Date; 8/15/16		
/	SMA		
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LEGAL NAME OF INVEN	NTOR 00 40 0040	
Inventor: Rickie A	Allan Sprague Date: 09-10-2016	
Signature:	- 20	
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LEGAL NAME OF INV	ENTOR 2/1/2016
Inventor: Yako	Date: O 16 2010
Signature:	
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PATENT REEL: 040028 FRAME: 0703

RECORDED: 10/17/2016