#### 03/14/2017 504271548

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4318230

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MARK STEVEN YAMAZAKI	02/16/2017
CHRISTOPHER JOHN TESLAK	02/16/2017
BERNARD D. NEFCY	03/01/2017
RAJIT JOHRI	02/15/2017
JUSTIN PANHANS	02/15/2017

### 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:	15449452

### **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: svachon@brookskushman.com BROOKS KUSHMAN P.C.

**Correspondent Name:** 

Address Line 1: 1000 TOWN CENTER, 22ND FLOOR Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	83754696
NAME OF SUBMITTER:	ROBERT D. BURNS
SIGNATURE:	/Robert D. Burns/
DATE SIGNED:	03/14/2017

**Total Attachments: 5** 

**PATENT REEL: 041572 FRAME: 0830** 

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PATENT REEL: 041572 FRAME: 0831 Please direct all correspondence to: 28395

	00041604
Attorney Docket Number	83754696

### 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	HYBRID VEHICLE POWERTRAIN TORQUE HOLE FILL DURING TRANSMISSION SHIFT			
This declaration is direct	ed to:			
X The attached application, or United States application or PCT international application number filed on				
The above-identified app	lication was made or authorized to be made by me.			
I hereby state that I have including the claims.	e reviewed and understand the contents of the specification in the above-identified application,			
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed invention in the application.			
continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior nal 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. 15/449,452, Filing Date March 3, 2017, 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 INV				
Inventor: Mark Ster	ven Yamazaki Date: 0//b/d0//			
Signature:				
Note: An Application Date	Sheet (PTO/SW14 or equivalent), including naming the entire inventive entity, must accompany this form.			

PATENT REEL: 041572 FRAME: 0832

	cket Number	83754696	

Title of Invention	HYBRID VEHICLE POWERTRAIN TORQUE HOLE FILL DURING TRANSMISSION SHIFT
This declaration is direc	
☐ Unite	attached application, or ad States application or PCT international application number filed on
The above-identified ap	oplication was made or authorized to be made by me.
I hereby state that I had 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 increast as	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 lonal or PCT international filing date of the continuation-in-part application.
property 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, in and to including all applications and reimagnetic applications and reimagnetic applications and reimagnetic applications and reimagnetic applications and to property of the serial applications organizations, and to property the serial applications organizations, and to property the serial applications organizations, and to property of the serial applications organizations are serial applications.	r 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 intergovernmenta perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives accure 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 or imprisonment of no	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years or both.
LEGAL NAME OF IN	IVENTOR 2-16-2017
Inventor: Christo	pher John Teslak Date: 218 2011
Signature:	Marie Gale
Note: An Application D	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form to form for each additional inventor.

PATENT REEL: 041572 FRAME: 0833

Attorney Docket Number	83754696

ine of invention	HYBRID VEHICLE POWERTRAIN TORQUE HOLE FILL DURING   TRANSMISSION SHIFT
This declaration is direct	
United	tached application, or  States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and then they become known.)
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	re reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and dis name or names, or in my insert the serial/applicat 15/449,452  ASSIGNEE, its success applications, in and to the	NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws on the Nologies, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws on the 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 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 name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
including applications fo organizations, and to per	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, r 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 ecure thereto the rights herein sold, assigned and set over.
And I hereby represent ar	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine tore than five (5) years or both.
LEGAL NAME OF INVI	£ \$ , \$
Signature: Bernard L	Date: 5/200
	, a company to
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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Attorney Docket Number	1 03/34070
1 7(00)110) 12 0 0 11 11 1 11 11 11	

Title of Invention HYBRID VEHICLE POWERTRAIN	TORQUE HOLE FILL DURING
TRANSMISSION SHIFT	***************************************
This declaration is directed to:	
X The attached application, or United States application or PCT international application filed on (I hereby authorize number into this form when they become known.)	number the insertion of the application filing date and
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 spincluding the claims.	1
I believe that I am the original inventor or an original joint inventor of a claim	med invention in the application.
I am aware of the duty to disclose information which is material to patental continuation-in-part applications, material information which became a application and the national or PCT international filing date of the continuation	valiable between the ning date of the birds I
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. 15/449,452	
including applications for Letters Patent of any and all kinds and in any a organizations, and to perform any and all acts which the ASSIGNEE, its s may deem necessary to secure thereto the rights herein sold, assigned and so	successors, assigns or other legal representatives
And I hereby represent and warrant that I have not granted any rights incom-	sistent with the rights granted herein.
I hereby acknowledge that any willful false statement made in this declara or imprisonment of not more than five (5) years or both.	ation is punishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INVENTOR	Date: 02/15/2017
Inventor: Rajit Johri	Date: 02/15/2011
Signature: Franklum	
	the entire inventive entity must accommany this form.
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming to Use an additional declaration form for each additional inventor.	the office diversive entry, must accompany the torm

Attorney Docket Number	00774506
Attomore Doglest Mississer	1 X 7 7 5 4 6 9 6
ARBITICY LOCKEL PHILIDE	しひごとンキシノダ

Title of Invention	HYBRID VEHICLE POWERTRAIN TORQUE HOLE FILL DURING TRANSMISSION SHIFT
This declaration is direct	
purma,	tached application, or  I States application or PCT international application number  filed on, (I hereby authorize the insertion of the application filing date and nen they become known.)
number into this form wi	ien they become known.)
	olication was made or authorized to be made by me.
I hereby state that I have 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 apr	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for discations, material information which became available between the filing date of the prior all 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. 15/449,452, Filing Date	
	and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknowledge t	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 2/15/2017
Inventor: Justin P	anhans Date:
Signature:	to paring
	U
Note: An Application Da Use an additional declarat	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: 041572 FRAME: 0836

RECORDED: 03/14/2017