503148895 01/23/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3195507

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY ALLEN DOERING	01/06/2015
XIAOYONG WANG	01/08/2015
FELIX NEDOREZOV	01/09/2015
CHEN ZHANG	01/20/2015
TODD MCCULLOUGH	01/06/2015
RAJIT JOHRI	01/06/2014

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:	14603749

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
Correspondent Name: BROOKS KUSHMAN P.C.

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

ATTORNEY DOCKET NUMBER:	83477615 (FMC5480PUS)
NAME OF SUBMITTER:	JAMES A. BERTINO
SIGNATURE:	/James A. Bertino/
DATE SIGNED:	01/23/2015

PATENT REEL: 034800 FRAME: 0280

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Total Attachments: 6 source=Assignment_Complete#page1.tif source=Assignment_Complete#page2.tif source=Assignment_Complete#page3.tif source=Assignment_Complete#page4.tif source=Assignment_Complete#page5.tif source=Assignment_Complete#page6.tif

Attorney Docket Number	83477615	
Wifollica Docker Infilling	00411012	

Title of Inventi	on	HYBRID VEHICLE AND DOWNSHIFTING STRATEGY IN A HYBRID VEHICLE
This declaration i	s direc	ted to:
X	Unite	ttached application, or d States application or PCT international application numberfiled on
The above-identi	fied ap	plication was made or authorized to be made by me.
I hereby state the including the claim		ve reviewed and understand the contents of the specification in the above-identified application,
I believe that I an	n the or	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-p	art ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for plications, material information which became available between the filing date of the prior and or PCT international 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, insert the serial 14/603,749 ASSIGNEE, its applications, in a	TECHOElawared to a ce and for E, its se and door in mo/application of the plication of the plication.	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, 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 oreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent iscoveries in any and all countries, entities and intergovernmental organizations, in its or their own y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ation number and filing date of the application to receive Letters Patent herein: Serial No. —, Filing DateJanuary 23, 2015), and I hereby sell, assign and set over to the issors, assigns or other legal representatives, all rights of priority, including any provisional the inventions and discoveries in any and all countries, entities and intergovernmental organizations ons claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, sue applications.
including applications, an	ntions f id 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 rep	resent :	and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknow	ledge 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 6 10 20 100
Inventor: <u>Je</u>	effrey A	Allen Boerings Date: OVAN 2015
Signature:		4/(02
Note: An Applica	tion Da	is Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional of	ieciarati	on form for each additional inventor.

Attorney Docket Number	83477615

Title of Invention	On	HYBRID VEHICLE AND DOWNSHIFTING STRATEGY IN A HYBRID VEHICLE
This declaration is	s direct	ed to:
		tached application, or States application or PCT international application number filed on
The above-identif	ied app	lication was made or authorized to be made by me,
I hereby state tha including the clair		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-pa	urt 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 hal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL of the State of De hereinafter referre interest, domestic of the ASSIGNEE for the inventions name or names, or insert the serial/a 14/603,74 ASSIGNEE, its applications, in an	TECHI elaware ed to as and for and die r in my applicat 9 success d to th lication	nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws as, 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 mame, 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. —, Filing Date — January 23, 2015 —), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional e inventions and discoveries in any and all countries, entities and intergovernmental organizations as claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, as applications.
including applicat organizations, and	ions fo I 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 repre	esent ar	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment o	f not m	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 O	3 4 4 7 7 7 7	CONTROL OF THE PROPERTY OF THE
77,000		J. Williams J. Williams and M.
Signature: Z	L. L.	ing Lifting
Note: An Applicati Use an additional de	on Data claration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Attorney Docket Number	83477615

Title of Invention	HYBRID VEHICLE AND DOWNSHIF VEHICLE	TING STRATEGY IN A HYBRID
This declaration is dire	cted to:	
X The Unite	attached application, or ed States application or PCT international application nu filed on	umber grows a superior
The above-identified ap	pplication was made or authorized to be made by me.	and the second section of the section of the second section of the section of the second section of the section of th
I hereby state that I he including the claims.	ave reviewed and understand the contents of the spec	ification in the above-identified application,
I believe that I am the c	original inventor or an original joint inventor of a claime	ed invention in the application.
continuation-in-part ar	to disclose information which is material to patentabili pplications, material information which became avaional or PCT international filing date of the continuation	lable between the filing date of the prior l
FORD GLOBAL TECH of the State of Delawa hereinafter referred to interest, domestic and to of the ASSIGNEE, its for the inventions and name or names, or in n insert the scrial/applications. Its successions in and to	yment agreement heretofore made or by contractual of HNOLOGIES, LLC, a Ford Motor Company subsidiary are, having its principal place of business at Dearborn as the ASSIGNEE, its successors, assigns or other leg foreign, in and to the inventions and discoveries in the successors, assigns or other legal representatives to madiscoveries in any and all countries, entities and intergency name, at its or their election (and I hereby authorize cation number and filing date of the application to Filing Date January 23, 2015, essors, assigns or other legal representatives, all right inventions and discoveries in any and all countries, ions claiming benefit of the filing date hereof, contissue applications.	c, organized and existing by virtue of the laws and County of Wayne, and State of Michigan, gal representatives, the entire right, title and above-identified invention including the right are applications and to receive Letters Patent overnmental organizations, in its or their own the ASSIGNEE or ASSIGNEE's attorney to receive Letters Patent herein: Serial No. and I hereby sell, assign and set over to the ghts of priority, including any provisional entities and intergovernmental organizations
including applications organizations, and to p	r myself, my heirs, successors, assigns or other legal re for Letters Patent of any and all kinds and in any and perform any and all acts which the ASSIGNEE, its successecure thereto the rights herein sold, assigned and set o	all countries, entities and intergovernmental cessors, assigns or other legal representatives
And I hereby represent	and warrant that I have not granted any rights inconsiste	ent with the rights granted herein.
I hereby acknowledge or imprisonment of not	that any willful false statement made in this declaration more than five (5) years or both.	n is punishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF IN	VENTOR	7/9//
Inventor: Felix 1	<u>Vedorezov</u>	Date: A set the set of the second
Signature:	ly Noderne	A STATE OF THE STA
Note: An Application Da	ata Sheet (PTO/SB/14 or equivalent), including naming the e	entire inventive entity, must accompany this form.

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Attorney Docket Number	83477615	

Title of Invention	VEHICLE AND DOWNSHIFTING STRATEGY IN A HYBRID	
This declaration is direc	led to:	
	ttached application, or d 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 serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 14/603.749 Filing Date January 23, 2015 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: <u>Chen Zl</u>	nang Date: 01/30/3011	
Signature:	en Zhanf	
Note: An Application Da	ta Sheet (PTO/SB/14 of Equivalent), including naming the entire inventive entity, must accompany this form.	

Attorney Docket Number	83477615

Title of Invention	HYBRID VEHICLE AND DOWNSHIFTING STRATEGY IN A HYBRID	
This declaration is directed to:		
[] [Inited	tached application, or I States application or PCT international application number filed on	
The above-identified app	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.	
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 of the ASSIGNEE, its safer the inventions and dename or names, or in magniser the serial/application 14/603,749 ASSIGNEE, its successions and the serial	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws e, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, is the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and oreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own ay name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to attorn number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————	
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 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 IN	VENTOR 1/0/00	
Inventor: Todd M	ccullough Date: 1/6/2018	
Signature: V789 CCC (M) CCC		
Note: An Application Da	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	
Use an additional declarati	on form for each additional inventor.	

RECORDED: 01/23/2015

Attorney Docket Number 83477615

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 Inventi	ON HYBRID VEHICLE AND DOWNSHIFTING STRATEGY IN A HYBRID VEHICLE
This declaration is	s directed to:
×	The attached application, or United States application or PCT international application number filed on
	fied application was made or authorized to be made by me.
including the clai	
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-p application and the	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for part applications, material information which became available between the filing date of the prior the national or PCT international filing date of the continuation-in-part application.
for the State of 1 hereinafter referrinterest, domestion of the ASSIGNE for the invention name or names, insert the serial 14/603. ASSIGNEE, its applications, in including all apprexaminations of the State of the	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, red to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and c and foreign, in and to the inventions and discoveries in the above-identified invention including the right EE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent as and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to Mapplication number and filling date of the application to receive Letters Patent herein: Serial No. [Application number and filling date of the application to receive Letters Patent herein: Serial No. [Application and to the inventions and discoveries in any and all countries, all rights of priority, including any provisional and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations and reissue applications.
including applic	gree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, eations for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives assary to secure thereto the rights herein sold, assigned and set over.
	present and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknow	wledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine at of not more than five (5) years or both.
LEGAL NAME	OF INVENTOR Railt John
Signature:	De Marie
Motor An Applie	cation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. I declaration form for each additional inventor.