503870753 06/14/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3917402

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DENNIS CRAIG REED	06/06/2016
JOSHUA NICHOLAS DEWALT	06/06/2016
MARY CATHERINE FARMER	06/08/2016
TERRY GENE FELDPAUSCH	06/06/2016
DIMITAR PETROV FILEV	06/14/2016
PETER DOUGLAS KUECHLER	06/13/2016

RECEIVING PARTY DATA

Name:	FORD GLOBAL TECHNOLOGIES, LLC		
Street Address: 330 TOWN CENTER DRIVE			
Internal Address:	FAIRLANE PLAZA SOUTH, SUITE 800		
City:	DEARBORN		
State/Country:	MICHIGAN		
Postal Code:	48126		

PROPERTY NUMBERS Total: 1

Property Type	Number				
Application Number:	15182002				

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: amungons@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

ATTORNEY DOCKET NUMBER:	83668172
NAME OF SUBMITTER:	MARC F. MALOOLEY
SIGNATURE:	/Marc F. Malooley/
DATE SIGNED:	06/14/2016

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

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Title of Invention	ADAPTIVE CONTROL OF BACKLASH IN A VEHICLE POWERTRAIN
This declaration is direc	ted to:
Unite	ttached application, or d States application or PCT international application number
The above-identified ap	plication was made or authorized to be made by me.
I hereby state that I had including the claims.	ve reviewed and understand the contents of the specification in the above-identified application.
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part 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 onal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawa hereinafter referred to interest, domestic and to of the ASSIGNEE, its for the inventions and on name or names, or in manders of the insert the serial/application of the serial of the se	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 discoveries in any and all countries, entities and intergovernmental organizations, in its or their own many 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 Date June 14, 2016 , and I hereby sell, assign and set over to the
annlications, in and to	ssors, 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 organizations, and to p	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.
or imprisonment of not	that 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	
Signature:	- Gary SSI
Note: An Application D Use an additional declara	ata Shest (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. tion form for each additional inventor.

	and the second s	
Attorney Docket Number	1 02220177	
Afforney Docker Number	0.2000172	
110011107 250011111		

Title of Invention	ADAPTIVE CONTROL OF BACKLASH IN A VEHICLE POWER I KAIN									
This declaration is directed to:										
X 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 app	lication was made or authorized to be made by me.									
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continuation-in-part app	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 nal or PCT international filing date of the continuation-in-part application.									
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. 15/182,002 , Filing Date										
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	VENTOR									
	nutional De Watt									
Signature:	Nuchales Distr									
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.										

Attorney Docket Number	

Title of Invention	ADAPTIVE CONTROL OF BACKLASH IN A VEHICLE POWERTRAIN
This declaration is direct	red to:
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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its state of the inventions and diname or names, or in my insert the serial/applica 15/182,002 ASSIGNEE, its success applications, in and to the including all application reexaminations and reiss	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 reign, 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 of name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the string Date
including applications for organizations, and to pe	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 ecure 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.
or imprisonment of not n	nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both.
LEGAL NAME OF INV	
Inventor: Mary Cat	therine Farmer Date: V///V
Signature:	
	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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Litle of Invention	ADAPTIVE CONTROL OF BACKLASH IN A VEHICLE POWERTRAIN
This declaration is direct	ed to:
United	States application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and
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The above-identified app	lication was made or authorized to be made by me.
I hereby state that I havincluding the claims.	e reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the ori	iginal 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 TECH of the State of Delaward hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its state for the inventions and diname or names, or in my insert the serial/applica 15/182,002 ASSIGNEE, its success applications, in and to the	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 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 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 virtual name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
including applications for organizations, and to per	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 ecure 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.
	nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both.
LEGAL NAME OF INV	ENTOR / / / / / / / / / / / / / / / / / / /
Inventor: <u>Terry Ge</u>	ne Feldpausch Date: 6-6-10/6
Signature:	som Forms
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. on form for each additional inventor.

Please direct all correspondence to: 28395

1	i nazznana
Attorney Docket Number	1.83008172

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	ADAPTIVE CONTROL OF BACKLAS	H IN A VEHICLE POWERTRAIN
This declaration is direct	ted to:	
United	ttached application, or I States application or PCT international application r filed on (I hereby authorize then they become known.)	number the insertion of the application filing date and
The above-identified app	olication was made or authorized to be made by me.	
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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its s for the inventions and di name or names, or in my insert the serial/applica 15/182,002 ASSIGNEE, its succes applications, in and to the	ment agreement heretofore made or by contractual of NOLOGIES, LLC, a Ford Motor Company subsidiar e, having its principal place of business at Dearbor is the ASSIGNEE, its successors, assigns or other leaving, in and to the inventions and discoveries in the uccessors, assigns or other legal representatives to miscoveries in any and all countries, entities and intergraph name, at its or their election (and I hereby authorization number and filing date of the application to Filing Date June 14, 2016, sors, assigns or other legal representatives, all reconstructions and discoveries in any and all countries	y, organized and existing by virtue of the laws n. County of Wayne, and State of Michigan, egal representatives, the entire right, title and above-identified invention including the right ake applications and to receive Letters Patent overnmental organizations, in its or their own to receive Letters Patent power to be receive Letters Patent herein: Serial No. and I hereby sell, assign and set over to the ights of priority, including any provisional, entities and intergovernmental organizations
including all applicatio reexaminations and reiss	ns claiming benefit of the filing date hereof, cor ue applications.	tinuations, continuations-in-part, divisionals,
including applications forganizations, and to pe	myself, my heirs, successors, assigns or other legal or Letters Patent of any and all kinds and in any and rform any and all acts which the ASSIGNEE, its successcure thereto the rights herein sold, assigned and set	f all countries, entities and intergovernmental cessors, assigns or other legal representatives
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	nat any willful false statement made in this declaration nore than five (5) years or both.	n is punishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV		
	Petrov Filey	Date:
Signature:	1.46C2	
	a Sheet (PTO/SB/14 or equivalent), including naming the	entire inventive entity, must accompany this form.

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	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not n	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both.
LEGAL NAME OF INV Inventor: Peter Dou	ENTOR uglas Kuechler Date: 6/13/2016
Signature;	2/
organite.	
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.

PATENT REEL: 038911 FRAME: 0086

RECORDED: 06/14/2016