505574328 07/16/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ersion v1.1 EPAS ID: PAT5621127

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL M. MOUBARAK	06/13/2019
WEITIAN CHEN	06/13/2019
JONATHAN SULLIVAN	06/25/2019
JOSEPH JAY TORRES	07/14/2019

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:	16513415

CORRESPONDENCE DATA

Fax Number: (313)322-7162

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: glorenzen@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:	84116777
NAME OF SUBMITTER:	BENJAMIN C. STASA
SIGNATURE:	/Benjamin C. Stasa/
DATE SIGNED:	07/16/2019
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Total Attachments: 4

PATENT REEL: 049769 FRAME: 0092

505574328



Autorney Docket Number 84116///	Attorney Docket Number	84116777
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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	TORQUE VEC	TORING	WITH	MODEL-	PREDICTIVE	TORQUE
	REQUESTS					
This declaration is directed	ed to:					
_	ached application, or States application or PC filed on en they become known	(I hereb			of the application	filing date and
number into this form wh	en mey become known.)	!				
The above-identified app	lication was made or autl	horized to be m	nade by me.			
I hereby state that I hav including the claims.	e reviewed and understa	and the conten	its of the sp	ecification in	n the above-identific	ed application,
I believe that I am the ori	ginal inventor or an origi	inal joint inven	tor of a clain	med inventior	n in the application.	
I am aware of the duty to continuation-in-part app application and the nation	lications, material infor	mation which	became av	vailable betw	veen the filing date	
Pursuant to my employn FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applicated 16/513415 ASSIGNEE, its success applications, in and to the including all application reexaminations and reisson. And I hereby agree for including a supplication of the including and including a supplication of the including and including a supplication of the including a supplication	NOLOGIES, LLC, a Force, having its principal plate the ASSIGNEE, its sureign, in and to the inversecessors, assigns or other scoveries in any and all of name, at its or their election number and filing, Filing DateJuly ors, assigns or other lie inventions and discoveries claiming benefit of the applications.	d Motor Compa ace of busines accessors, assignations and disco- er legal represe countries, entiti- ction (and I her date of the 16, 2019 legal representa- ries in any and the filing date	any subsidia s at Dearbo ns or other overies in the entatives to ies and inter reby authori application tatives, all all countries thereof, co	ary, organized orn, County of legal represent above-iden make applicated to receive I and I herel rights of press, entities an ontinuations,	I and existing by virting the distribution of Wayne, and State entatives, the entire tified invention inclutions and to receive all organizations, in its GNEE or ASSIGNE Letters Patent here by sell, assign and all intergovernmenta continuations-in-particles.	tue of the laws of Michigan, right, title and uding the right tetters Patent ts or their own E's attorney to in: Serial No. set over to the my provisional l organizations rt, divisionals, and all papers,
including applications fo organizations, and to per may deem necessary to so	form any and all acts wl	nich the ASSIC	GNEE, its st	uccessors, ass		
And I hereby represent a	nd warrant that I have no	t granted any ri	ights incons	istent with the	e rights granted here	in.
I hereby acknowledge the or imprisonment of not meaning the second secon			this declarat	ion is punish	able under 18 U.S.C	5. 1001 by fine
LEGAL NAME OF INV	ENTOR				٠,	the age
Inventor: Paul M. N	10ybarak	***************************************		Date:	June 13	, <u> </u>
Signature:		TOTAL STATE OF THE		·······································	· · · · · · · · · · · · · · · · · · ·	
Note: An Application Data Use an additional declaratio			ng naming th	e entire invent	ive entity, must accon	npany this form.

Attorney Docket Number	84116777

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	TORQUE REQUESTS	VECTORING	WITH	MODEL-PREDICTIVE	TORQUE
This declaration is direct					
United	filed on	n or PCT internations		n number e the insertion of the application	n filing date and
The above-identified app	lication was mad	e or authorized to be	made by me		
I hereby state that I have including the claims.	e reviewed and	understand the conte	ents of the	specification in the above-identi	fied application,
I believe that I am the or	iginal inventor or	an original joint inve	ntor of a cla	imed invention in the application	1,
I am aware of the duty to continuation-in-part app application and the natio	lications, materi	al information which	h became	ability as defined in 37 C.F.R. 1. available between the filing dation-in-part application.	56, including for ate of the prior
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its store the inventions and diname or names, or in my insert the serial/applica 16/513415 ASSIGNEE, its success applications, in and to thincluding all application reexaminations and reiss. And I hereby agree for	NOLOGIES, LLC e, having its print s the ASSIGNEE reign, in and to the accessors, assigns scoveries in any r name, at its or the tion number and print of the sors, assigns or the inventions and the inventions and the applications.	C, a Ford Motor Com- ncipal place of busines, its successors, assi- the inventions and dis- is or other legal repres- and all countries, ent- their election (and I had filing date of the ate July 16, 2019 other legal represe- discoveries in any ar- efit of the filing date, successors, assigns	pany subsidess at Dearlings or other coveries in a sentatives to ities and intereby author application application application at all countries hereof, or other leg	al obligation, I do sell, assign as iary, organized and existing by voorn, County of Wayne, and Star legal representatives, the entire the above-identified invention in make applications and to receive regovernmental organizations, in rize the ASSIGNEE or ASSIGNE or to receive Letters Patent he, and I hereby sell, assign and I rights of priority, including ries, entities and intergovernment continuations, continuations-in-part representatives to execute any and all countries, entities and in	virtue of the laws ate of Michigan, re right, title and reluding the right we Letters Patent in its or their own IEE's attorney to rein: Serial No. d set over to the any provisional tral organizations part, divisionals,
organizations, and to pe may deem necessary to s	rform any and all	acts which the ASS	IGNEE, its	successors, assigns or other lega	il representatives
And I hereby represent a	nd warrant that I	have not granted any	rights incon	sistent with the rights granted he	rein.
or imprisonment of not r	nore than five (5)	se statement made in years or both.	this declar	ation is punishable under 18 U.S	S.C. 1001 by fine
LEGAL NAME OF INV Inventor: Weitian (Date: 06/13/20	19
Signature:	oltian	du			
	1		ling naming	the entire inventive entity, must acc	company this form.
Use an additional declaration					

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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	TORQUE VECTORING REQUESTS	WITH	MODEL-PREDICTIVE	TORQUE
This declaration is direct		*************		
	tached application, or I States application or PCT internation filed on (1 here	al application	s number the insertion of the application	i filing date and
number into this form w	hen they become known.)		•	
The above-identified app	ofication was made or authorized to be	made by me.	÷	
I hereby state that I ha including the claims.	ve reviewed and understand the contr	ents of the s	pecification in the above-identi	fied application,
I believe that I am the or	riginal inventor or an original joint inve	entor of a cla	imed invention in the application	k.
continuation-in-part app	o disclose information which is materi plications, material information whic wal or PCT international filing date of	ch became a	ivailable between the filing da	
FORD GLOBAL TECH of the State of Delawas hereinafter referred to interest, domestic and it of the ASSIGNEE, its a for the inventions and d name or names, or in m insert the serial/applica- 16/513415	ment agreement heretofore made or h NOLOGIES, LLC, a Ford Motor Come, having its principal place of busin is the ASSIGNEE, its successors, assi- xeign, in and to the inventions and dis nuccessors, assigns or other legal repre- iscoveries in any and all countries, en- y name, at its or their election (and I I ation number and filing date of the Filing Date	mpany subsidi- uess at Dearb igns or other scoveries in to- scoveries and into- scoveries and into- scoveries and into- scoveries and all country and all country and all country	isry, organized and existing by worm, County of Wayne, and Star legal representatives, the entire above identified invention in make applications and to receivergovernmental organizations, in the ASSIGNEE or ASSIGNEE or ASSIGNEE and I hereby sell, assign and rights of priority, including its, entities and intergovernments, and the proportions.	ritue of the laws are of Michigan, e right, title and cluding the right or Letters Patent its or their own EE's attorney to rein: Serial No. d set over to the any provisional tal organizations
including applications to organizations, and to as	sue applications. myself, my heirs, successors, assigns for Letters Patent of any and all kinds reform any and all acts which the ASS secure thereto the rights herein sold, as	and in any : SIGNEE, its :	and all countries, entities and it successors, assigns or other legs	sinomarvograti
•	and warrant that I have not granted any			rein.
or imprisonment of not	hat any willful false statement made is more than five (5) years or both.	n this declar	ation is punishable under 18 U.S	6.C. 1001 by fan
LEGAL NAME OF IN	VENTOR		6/2	5/20/9
Inventor: Lonathan	Sullivan		Date:	
Signature:	ent fulle	***************************************		
Note: An Application Da	ta Sheet (PTO/SB/14 or equivalent), inclu	gninse gaib	the entire inventive entity, must ac	company this form

Please direct all correspondence to: 28395

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	TORQUE '	VECTORING	WITH	MODEL-PREDICTIVE	TORQUE	
	REQUESTS					
This declaration is directed to:						
The etteched application or						
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 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. 16/513415						
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				- /m/13	a l	
Inventor: Joseph Ja	y Torres			Date: $\frac{\sqrt{4/1}}{2}$	4	
Signature:	2			. ,		
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: 049769 FRAME: 0097

RECORDED: 07/16/2019