504304831 04/04/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4351512

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LODEWIJK WIJFFELS	03/28/2017
SERGIO CODONESU	03/29/2017
DAVID MICHAEL RUSSELL	03/28/2017
CORNELIUS MACFARLAND	03/29/2017
OLIVER NEHLS	03/29/2017
JAN BREMKENS	03/29/2017

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15474737

CORRESPONDENCE DATA

Fax Number: (312)580-9696

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: 3125801020 Email: jliu@hfzlaw.com

Correspondent Name: HANLEY, FLIGHT & ZIMMERMAN, LLC

Address Line 1: 150 S WACKER DRIVE

Address Line 2: SUITE 2200

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	83699558
NAME OF SUBMITTER:	MARK G. HANLEY
SIGNATURE:	/Mark G. Hanley/
DATE SIGNED:	04/04/2017

Total Attachments: 6source=83699558_Assignment_Declaration_All_Recorded#page1.tif source=83699558_Assignment_Declaration_All_Recorded#page2.tif source=83699558_Assignment_Declaration_All_Recorded#page3.tif source=83699558_Assignment_Declaration_All_Recorded#page4.tif source=83699558_Assignment_Declaration_All_Recorded#page5.tif

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Please direct all correspondence to:

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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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This declaration is direct	ed to:		
Unites	tached application, or I States application or PCT internati filed on (I b		on of the application filing date and
number into this form wi	nen they become known.)		
The above-identified app	dication was made or authorized to	be made by me.	
I hereby state that I has including the claims.	e reviewed and understand the co	ntents of the specification	in the above-identified application,
I believe that I am the or	iginal inventor or an original joint it	iventor of a claimed invent	ion in the application.
continuation-in-part app		hich became available be	fined in 37 C.F.R. 1.56, including for tween the filing date of the prior application.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its a for the inventions and distance or names, or in miniment the serial/applica_15/474.737 ASSIGNEE, its success applications, in and to the including all application reexaminations and reiss	NOLOGIES, LLC, a Ford Motor C e, having its principal place of but s the ASSIGNEE, its successors, a reign, in and to the inventions and uccessors, assigns or other legal re- iscoveries in any and all countries, y name, at its or their election (and ition number and filins date of, Filing Date March 30, 20 sors, assigns or other legal repri- is inventions and discoveries in any ins claiming benefit of the filing ue applications.	ompany subsidiary, organismess at Dearborn, County issigns or other legal reproductions on the above-id presentatives to make applicantities and intergovernme. I hereby authorize the ASI the application to receive 17, and I have a legal countries, entities date hereof, continuation	a, I do sell, assign and set over unto zed and existing by virtue of the laws y of Wayne, and State of Michigan, esentatives, the entire right, title and lentified invention including the right leations and to receive Letters Patent at organizations, in its or their own SIGNEE or ASSIGNEE's attorney to e Letters Patent herein: Serial Notreby sell, assign and set over to the priority, including any provisional and intergovernmental organizations, continuations in-part, divisionals,
including applications forganizations, and to pe	or Letters Patent of any and all kin	ds and in any and all com SSIGNEE, its successors.	atives to execute any and all papers, atries, entities and intergovernmental assigns or other legal representatives
And I hereby represent a	nd warrant that I have not granted a	ny rights inconsistent with	the rights granted herein.
	iat any willful false statement made nore than five (5) years or both.	in this declaration is puni	shable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV	ENTOR		_ / m /
Inventor: <u>Lodewij</u>		Date:	3/28/2017
Signature:			
Note: An Application Dat	a Sheet (PTO/SB/14 or equivalent), inc	hiding naming the entire inv	entive entity, must accompany this form.

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ARREST FROM	KEE INDERHOEF	83699558	5

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	METHODS AND APPARATUS TO IDENTIFY NON-UNIFORMITY IN A VEHICLE STEERING SYSTEM
This declaration is direct	2d (tr)
United	tacked application, or States application or PCT international application number
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I has meluding the claims.	e reviewed and understand the contents of the specification in the above-identified application.
I believe that I am the or	gins) inventor or an original joint inventor of a claimed invention in the application
continuation-in-part app	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 filling date of the prior hal or PCT international filling date of the continuation-in-part application.
FORD GLOBAL TECHL of the State of Delaware hereinalter referred to a micrest, domestic and fo- of the ASSIGNEE, its so for the inventions and di- name or names, or in my msert the serial/applican 15/474,737 ASSIGNEE, its success applications, in and to th including all application reexaminations and reisse	nem 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 is, having its principal place of business at Dearborn. County of Wayne, and State of Michigan, 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 iton number and filing date of the application to receive Letters Patent herein. Serial No. Filing Date March 30, 2017 In and I hereby sell, assign and set over to the loss, assigns or other legal representatives, all rights of priority, including any provisional is claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, is applications. The provisional applications and discoveries in any and all countries, entities and intergovernmental organizations are claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, is applications.
including applications for organizations, and to per	r Letters Patent of any and all kinds and in any and all countries, emities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives source thereto the rights herein sold, assigned and set over.
And I hereby represent as	nd warrant that I have not granted may rights inconsistent with the rights granted herein.
	it 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 INV	ENTOR
Inventor: <u>Sergio Ço</u>	
Signature:	
Note: An Application Data	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	83699558

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	ve 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 appl	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 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 15/474,737 ASSIGNEE, its success applications, in and to the including all application reexaminations and reissa	.						
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.							
or imprisonment of not m	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 INVI	ENTOR ichael Russell Date: ZSMARZOJF						
Signature:	D Milard Reall						
Note: An Application Data	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.						

Attorney Docket Number	

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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FORD GLOBAL TECHI of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and di name or names, or in my insert the serial/applicat 15/474,737 ASSIGNEE, its success applications, in and to th including all application reexaminations and reisss And I hereby agree for a	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers,
organizations, and to per	or 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 a	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 tore than five (5) years or both.
LEGAL NAME OF INV Inventor: Cornelius	ENTOR Macfaeland Date: 3 29 - 17
Signature: 24	
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Please direct all correspondence to:

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FORD GLOBAL TECH of the State of Delawa hereinafter referred to a interest, domestic and for the ASSIGNEE, its a for the inventions and disame or names, or in minsert the serial/applica	
including applications for organizations, and to pe	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 coure thereto the rights herein sold, assigned and set over.
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LEGAL NAME OF INV nventor: Ohver N	
Signature: Onver 3	The state of the s
signatuse.	
	Sheet (PTC/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to:

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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and it of the ASSIGNEE, its sign the inventions and d name or names, or in masert the serial/applications, in and to the including all application reexaminations and reise And I hereby agree for including applications for organizations, and to perform the serial applications of the serial applications and reise applications, and to perform the serial applications of the serial applications and to be serial applications and the serial applications applications and the serial applications applications are serial applications a	ment agreement heretofore made or by NOLOGIES, LLC, a Ford Motor Comple, having its principal place of busine is the ASSIGNEE, its successors, assigneign, in and to the inventions and discuccessors, assigns or other legal repressiscoveries in any and all countries, entity name, at its or their election (and I he atton number and filing date of the Filing Date March 30, 201 assocs, assigns or other legal represente inventions and discoveries in any ansies claiming benefit of the filing data are applications. In the control of the filing data are applications. In the control of the filing data are applications.	sany subsidiary, organize as at Dearborn, County ins or other legal representatives to make applications and intergovernment reby authorize the ASSI application to receive 7	and existing by virtue of the laws of Wayne, and State of Michigan, entatives, the entire right, title and miffied invention including the right ations and to receive Letters Patent al organizations, in its or their own GNEE or ASSIGNEE's attorney to Letters Patent herein: Serial No. 2by sell, assign and set over to the riority, including any provisional and intergovernmental organizations continuations-in-part, divisionals, ives to execute any and all papers, ries, entities and intergovernmental
And I hereby represent:	and warrant that I have not granted any r	ights inconsistent with th	se rights granted herein.
or imprisonment of not a	nst any willful false statement made in nore than five (5) years or both.	this declaration is punish	nable under 18 U.S.C. 1901 by fine
TEGAL NAME OF INV		958	70.00 70.77
Inventor <u>Jan Bret</u>		Date:	
Signature:		***************************************	
	a Sheet (PTO/SB/14 or equivalent), includi	ng naming the entire inven	are easily, must accompany this form.

PATENT REEL: 041841 FRAME: 0889

RECORDED: 04/04/2017