505624566 08/15/2019

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5671369

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the INCORRECT INVENTOR NAME FOR SECOND-LISTED INVENTOR previously recorded on Reel 049839 Frame 0218. Assignor(s) hereby confirms the INVENTOR NAME FOR SECOND-LISTED INVENTOR IS GREGORY D. GARDNER

#### **CONVEYING PARTY DATA**

Name	Execution Date
THOMAS EUGENE KATHMAN JR.	07/02/2019
GREGORY D. GARDNER	06/27/2019
NORMAN JERRY BIRD	07/02/2019
DIANA BARBARA PLACHA	07/02/2019
XIAOYONG LU	06/24/2019

#### **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:	16520256

#### **CORRESPONDENCE DATA**

**Fax Number:** (971)271-8021

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:** 9712718020

Email: campbell1@mccrus.com

Correspondent Name: MCCOY RUSSELL LLP

Address Line 1:806 SW BROADWAY SUITE 600Address Line 4:PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER: 84158546	
NAME OF SUBMITTER:	OONA R. FISHER CAMPBELL
SIGNATURE:	/Oona R. Fisher Campbell/

PATENT REEL: 050073 FRAME: 0833

505624566

DATE SIGNED:	08/15/2019
Total Attachments: 9	
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### MARKED-UP

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### CONVEYING PARTY DATA

	Execution Date
THOMAS EUGENE KATHMAN, JR.	07/02/2019
<del>GREG</del> D. GARDNER <u>GREGORY</u>	06/27/2019
S. S	07/02/2019
DIANA BARBARA PLACHA	07/02/2019
XIAOYONG LU	

#### RECEIVING PARTY DATA

3	FORD GLOBAL TECHNOLOGIES, LLC	
- <del>2</del> 8	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: 16520256		

#### CORRESPONDENCE DATA

 Fax Number:
 (971)271-8021

 Phone:
 971-271-8020

Email: campbell!@mccrus.com

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.

Correspondent Name: MCCOY RUSSELL LLP

Address Line 1: 806 S.W. BROADWAY, SUITE 600
Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER: 84158546

NAME OF SUBMITTER: OONA R. FISHER CAMPBELL

PATENT REEL: 050073 FRAME: 0835/2019, 4:26 PM

### MARKED-UP

Signature:	/Oona R. Fisher Campbell/
Date:	
Total Attachments: 5 source=Executed_Assig source=Executed_Assig source=Executed_Assig source=Executed_Assig source=Executed_Assig	ent_84158546#page1.tif ent_84158546#page2.tif ent_84158546#page3.tif ent_84158546#page4.tif ent_84158546#page5.tif
EPAS ID:	PAT5632976
<b>Receipt Date:</b> 07/23/2019	

PATENT

REEL: 050073 FRAME: 0836/2019, 4:26 PM



#### United States Patent And Trademark Office

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JULY 24, 2019

PTAS

MCCOY RUSSELL LLP 806 S.W. BROADWAY, SUITE 600 PORTLAND, OR 97205

505586177

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/23/2019 REEL/FRAME: 049839/0218

NUMBER OF PAGES: 7

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 84158546

ASSIGNOR:

KATHMAN, THOMAS EUGENE, JR. DOC DATE: 07/02/2019

ASSIGNOR: GREGORY

GARDNER, GREC D. DOC DATE: 06/27/2019

ASSIGNOR:

BIRD, NORMAN JERRY DOC DATE: 07/02/2019

ASSIGNOR:

PLACHA, DIANA BARBARA DOC DATE: 07/02/2019

ASSIGNOR:

LU, XIAOYONG DOC DATE: 06/24/2019

ASSIGNEE:

FORD GLOBAL TECHNOLOGIES, LLC FAIRLANE PLAZA SOUTH, SUITE 800 330 TOWN CENTER DRIVE DEARBORN, MICHIGAN 48126

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV PATENT

REEL: 050073 FRAME: 0837

#### **MARKED-UP**

APPLICATION NUMBER: 16520256 FILING DATE: PATENT NUMBER: ISSUE DATE:

TITLE: WHEEL END DISCONNECT SYSTEM AND METHOD

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

84158546

Title of Invention	WHEEL END D	DISCONNECT SYSTEM AND METHOI	•
This declaration is direct	ed to:		*******************
United	ached application, or States application or PCT internat filed on(I I ten they become known.)	tional application number hereby authorize the insertion of the application fil	ling date and
The above-identified ann	lication was made or authorized to	o be made by me.	
		contents of the specification in the above-identified	l 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	lications, material information w	aterial to patentability as defined in 37 C.F.R. 1.56, which became available between the filing date e of the continuation-in-part application.	
FORD GLOBAL TECHT 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/application————————————————————————————————————	NOLOGIES, LLC, a Ford Motor Co, having its principal place of but the ASSIGNEE, its successors, reign, in and to the inventions and accessors, assigns or other legal rescoveries in any and all countries, name, at its or their election (and tion number and filing date of pate	or by contractual obligation, I do sell, assign and a Company subsidiary, organized and existing by virtuusiness at Dearborn, County of Wayne, and State assigns or other legal representatives, the entire rill discoveries in the above-identified invention include presentatives to make applications and to receive I., entitles and intergovernmental organizations, in its I I hereby authorize the ASSIGNEE or ASSIGNEE the application to receive Letters Patent herein 23, 2019 ——), and I hereby sell, assign and se resentatives, all rights of priority, including any and all countries, entities and intergovernmental of date hereof, continuations, continuations-in-part,	ne of the laws of Michigan, ght, title and ding the right Letters Patent or their own 's attorney to : Serial No. at over to the provisional organizations divisionals,
including applications fo organizations, and to per	r Letters Patent of any and all kin	gns or other legal representatives to execute any ar nds and in any and all countries, entities and interg ASSIGNEE, its successors, assigns or other legal re I, assigned and set over.	governmental
And I hereby represent as	nd warrant that I have not granted a	any rights inconsistent with the rights granted herein	<b>š</b> .,
or imprisonment of not m	ore than five (5) years or both.	te in this declaration is punishable under 18 U.S.C.	1001 by fine
LEGAL NAME OF INV Inventor: Thomas E	· · · · · · · · · · · · · · · · · · ·	Date: July 2, 2015	4
Signature:	1/ /3 //		£
	/		
	i Sheet (PTO/\$B/14 or equivalent), in n form for each additional inventor	noluding naming the entire inventive entity, must accomp	any this form.

	A
Attorney Docket Number	84158546

litle of Invention	WHEEL END DISCONNECT SYSTEM AND METHOD
This declaration is directed	ed to:
⊠ The att □ United	ached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and en they become known.)
The above-identified appl	ication was made or authorized to be made by me.
	e reviewed and understand the contents of the specification in the above-identified application.
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.
I am aware of the duty to continuation-in-part appl	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for ications, material information which became available between the filing date of the prior al or PCT international filing date of the continuation-in-part application.
of the State of Delaware, hereinafter referred to as interest, domestic and force of the ASSIGNEE, its surfor the inventions and disconame or names, or in my insert the serial/applications its successor applications, in and to the	ent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto IOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws 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 sign, in and to the inventions and discoveries in the above-identified invention including the right recessors, assigns or other legal representatives to make applications and to receive Letters Patent recoveries 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 on number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
organizations, and to perfo	yself, my heirs, successors, assigns or other legal representatives to execute any and all papers. Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental arm any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives are 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.
hereby acknowledge that or imprisonment of not mo	any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine re than five (5) years or both.
LEGAL NAME OF INVEIT NOTE TO THE REPORT OF THE REPORT OF THE PROPERTY OF THE P	
signature: <u>IAGGAA</u>	13 18 1
Vote: An Application Data S Ise an additional declaration	heet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  form for each additional inventor.
an assertioning the fan arroll 1	MAIN ON CACH SERVEDORS HIVERION.

Attorney Docket Number	84158546

Title of Invention	WHEEL END DISCONNECT SYSTEM AND METHOD
This declaration is direct	ed to:
The att United	ached application, or States application or PCT international application number filed on (1 hereby authorize the insertion of the application filing date and en they become known.)
	lication was made or authorized to be made by me.
I hereby state that I hav 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.
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 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. 16/520,256 , Filing Date July 23, 2019 , 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, and all countries and intergovernmental in	
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 a	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 nore than five (5) years or both.
LEGAL NAME OF INV	ENTOR Q. L. 2 2019
Inventor: Norman J	
Signature: Jorn	anxi zi
	a Speci (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Attorney Docket Number 84158546	
Anomey Docker Funder   84136346	

Title of Invention	WHEEL END DISCONNECT SYSTEM AND METHOD
This declaration is direct	ed to:
	tached application, or I States application or PCT international application number  filed on
	olication was made or authorized to be made by me.
	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 and	o 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 TECHO of the State of Delawar hereinafter referred to a interest, domestic and for the ASSIGNEE, its store the inventions and domaine or names, or in minsert the serial/applications, in and to the including all applications and reist the serial applications and reist the serial applications. And I hereby agree for the discrete applications and reist the serial applications and reist the serial applications and reist the serial applications.	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers,
may deem necessary to	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 warrant that I have not granted any rights inconsistent with the rights granted herein.
1	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 5 TILLY 02 YOLG
Inventor: Diana E	
Signature:	MQ 3. Jaka
Note: An Application D	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declara	tion form for each additional inventor.

**RECORDED: 08/15/2019** 

Titlofficy Edocker Frantiscr   0 11505 to	Attorney Docket Number	84158546
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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	WHEEL END DISCONNECT SYSTEM AND METHOD
This declaration is directed	ed to:
United	sached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and ten 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.
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. 16/520.256, Filing Date	
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	= $1/2$ $1/3$ $2/3$ $1/3$ $1/3$
Inventor: Xiaoyong	Lu Date: 0/24/20//
Signature:	aryong C-
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Lica on additional declaratio	n farm far each additional inventor