503725433 03/07/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 **EPAS ID: PAT3772075**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY ALLEN DOERING	09/28/2012
ALEX O'CONNOR GIBSON	10/05/2012
GREGORY MICHAEL PIETRON	10/02/2012
JAMES WILLIAM LOCH MCCALLUM	09/28/2012
YUJI FUJII	10/01/2012

RECEIVING PARTY DATA

Name:	FORD GLOBAL TECHNOLOGIES
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:	15063268

CORRESPONDENCE DATA

Fax Number: (503)459-4142

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: 5034594141 fulton@ahmrt.com Email:

ALLEMAN HALL MCCOY RUSSELL & TUTTLE LLP **Correspondent Name:**

Address Line 1: **806 SW BROADWAY**

Address Line 2: SUITE 600

Address Line 4: PORTLAND, OREGON 97205-3335

ATTORNEY DOCKET NUMBER:	83643608
NAME OF SUBMITTER:	MAXFIELD W. FULTON
SIGNATURE:	/Maxfield W. Fulton/
DATE SIGNED:	03/07/2016

Total Attachments: 5

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83243215

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invent	tion	METHODS AND SYSTEMS FOR A FOUR WHEEL DRIVE VEHICLE DRIVELINE
This declaration	is directe	ed to:
X	The att	ached application, or
		States application or PCT international application number filed on
The above-ident	ified app	lication was made or authorized to be made by me.
I hereby state the	at I have	reviewed and understand the contents of the specification in the above-identified application, including the
I believe that I a	m the ori	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-	part appl	to 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 application and national filing date of the continuation-in-part application.
GLOBAL TECH Delaware, havin A SSIGNEE, its the inventions a other legal repr countries, entitic (and I hereby a application to re and I hereby sel including any intergovernment	HNOLOGING its pring successor and discontatives and industrial to the second such or its provision tallog and its principal tallog and its princip	nent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of cipal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to veries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or es to make applications and to receive Letters Patent for the inventions and discoveries in any and all tergovernmental organizations, in its or their own name or names, or in my name, at its or their election the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the iters Patent herein: Serial No. 13/652,359, Filing Date October 15, 2012), and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, nall applications, in and to the inventions and discoveries in any and all countries, entities and izations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-inations and reissue applications.
applications for perform any and	Letters F d all acts	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure sold, assigned and set over.
And I hereby re	present a	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
	f not mor	hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.
Inventor:		ey Alien Doering Date: 285EPT 2012
Signature:		
		Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an for each additional inventor

Attorney Docket Number 83243215

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	METHODS AND SYSTEMS FOR A FOUR WHEEL DRIVE VEHICLE DRIVELINE	
This declaration is directed to:		
X The a	ttached application, or	
□ Unite	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 have claims.	e reviewed and understand the contents of the specification in the above-identified application, including the	
I believe that I am the or	riginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-part app	y to 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 application and rnational filing date of the continuation-in-part application.	
Delaware, having its pri ASSIGNEE, its success the inventions and disco other legal representative countries, entities and in (and I hereby authorize application to receive Leand I hereby sell, assign including any provisio intergovernmental organ part, divisionals, reexam	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD GIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of neipal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the ors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to overies in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or rother applications and to receive Letters Patent for the inventions and discoveries in any and all intergovernmental organizations, in its or their own name or names, or in my name, at its or their election the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the enters Patent herein: Serial No. 13/652,359 , Filing Date October 15, 2012), and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, nall applications, in and to the inventions and discoveries in any and all countries, entities and izations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-inations and reissue applications.	
applications for Letters I perform any and all acts	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure 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.	
imprisonment of not mor	hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.	
LEGAL NAME OF INV	ENTOR	
Investor: Alex	<u>O'Connor Gibson</u> Date: <u>/0/5/20/2</u>	
Signature:	Ala Ala	
Note: An Application Data additional declaration form	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an for each additional inventor.	

Attorney Docket Number	83243215

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	DRIVELINE DRIVELINE
This declaration is	
X	The attached application, or
П	United States application or PCT international application numberfiled on
The above-identif	ied application was made or authorized to be made by me.
I hereby state that claims.	I have reviewed and understand the contents of the specification in the above-identified application, including the
I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-pa	te duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for art applications, material information which became available between the filing date of the prior application and T international filing date of the continuation-in-part application.
GLOBAL TECHI Delaware, having ASSIGNEE, its s the inventions an other legal repres countries, entities (and I hereby au application to rec and I hereby sell, including any p intergovernmenta	mployment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the accessors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or sentatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election thorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the eive Letters Patent herein: Serial No. 13/652,359 , Filing Date October 15, 2012 , assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, rovisional applications, in and to the inventions and discoveries in any and all countries, entities and I organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-reexaminations and reissue applications.
applications for I perform any and	see for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including exters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure herein sold, assigned and set over.
And I hereby repr	resent and warrant that I have not granted any rights inconsistent with the rights granted herein.
imprisonment of	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years or both.
LEGAL NAME	
inventor:	Gregory Michael Pietron Date: 20ct 2012
•	
Signature:	
	tion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an on form for each additional inventor.

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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

A SUIT OF SHATHE	DRIVELINE DRIVE AND SYSTEMS FOR A FOUR WHEEL DRIVE VEHICLE
This declaration	is directed to:
, X	The attached application, or
	United States application or PCT international application number filed on
The above-identification	fied application was made or authorized to be made by me.
I hereby state that claims.	t I have reviewed and understand the contents of the specification in the above-identified application, including the
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-pa	ne duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for art applications, material information which became available between the filing date of the prior application and T international filing date of the continuation-in-part application.
Delaware, having ASSIGNEE, its s the inventions an other legal representations of the inventions and I hereby autophication to recount I hereby sell, including any printergovernmenta	imployment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of its principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the uccessors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to d discoveries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or sentatives to make applications and to receive Letters Patent for the inventions and discoveries in any and all and intergovernmental organizations, in its or their own name or names, or in my name, at its or their election thorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the eive Letters Patent herein: Serial No. 13/652,359 , Filing Date October 15, 2012 , assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, rovisional applications, in and to the inventions and discoveries in any and all countries, entities and I organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-in-reexaminations and reissue applications.
applications for L perform any and a	se for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including etters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to all acts which the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure herein sold, assigned and set over.
And I hereby repr	esent and warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknowl imprisonment of r	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years or both. DE INVENTOR
Inventor:	James William Loch McCallum Date: 28 Sept 2017
Signature:	Charles book Commenced
Note: An Applicati additional declaration	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an inform for each additional inventor.

RECORDED: 03/07/2016

4 7 6	No. 1	
- Attrarmasi	Docket No	1771 1337
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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Inventi	ion	METHODS AND SYSTEMS FOR A FOUR WHEEL DRIVE DRIVELINE	VEHICLE
This declaration i	is directed		
X.	The atta	tached application, or	
		States application or PCT international application number filed on	
The above-identi	fied appli	lication was made or authorized to be made by me.	
I hereby state tha	t I have r	reviewed and understand the contents of the specification in the above-identified application	on, including the
I believe that I an	n the orig	ginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-p	art applic	to disclose information which is material to patentability as defined in 37 C.F.R. 1.5 ications, material information which became available between the filing date of the prior national filing date of the continuation-in-part application.	6, including for application and
GLOBAL TECH Delaware, having ASSIGNEE, its so the inventions and other legal represecutives, entities (and I hereby auapplication to recard I hereby sell, including any pointergovernmenta	NOLOGI	nent agreement heretofore made or by contractual obligation, I do sell, assign and set of GIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law scipal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter is ors, assigns or other legal representatives, the entire right, title and interest, domestic and fiveries in the above-identified invention including the right of the ASSIGNEE, its successes to make applications and to receive Letters Patent for the inventions and discoveries tergovernmental organizations, in its or their own name or names, or in my name, at its the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and fitters Patent herein: Serial No. 13/652,359 , Filing Date October 1 and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all real applications, in and to the inventions and discoveries in any and all countries cations including all applications claiming benefit of the filing date hereof, continuations, contains and reissue applications.	or so of the State of referred to as the oreign, in and to ssors, assigns or s in any and all or their election iling date of the 15, 2012, ights of priority, es, entities and
applications for L perform any and	etters Pa all acts w	nyself, my heirs, successors, assigns or other legal representatives to execute any and all pratent of any and all kinds and in any and all countries, entities and intergovernmental organs which the ASSIGNEE, its successors, assigns or other legal representatives may deem necoold, assigned and set over.	nizations, and to
And I hereby repr	resent and	nd warrant that I have not granted any rights inconsistent with the rights granted herein.	
imprisonment of i	not more	nat any willful false statement made in this declaration is punishable under 18 U.S.C. e than five (5) years or both.	1001 by fine or
LEGAL NAME (OF INVE	ENTOR	
inventor:	Yuji F	Fujii Date: 10-1-20/2	
Signature:			
Note: An Applicat	ion Data	s Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany to	his form. Use an