PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3259243

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CLIFFORD E. MAKI	09/24/2012
RALPH WAYNE CUNNINGHAM	09/27/2012
JAMIE CHARLES HANSHAW	09/27/2012
YIHUA (EVA) BARBER	02/13/2013
DAVID BIDNER	03/07/2013

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:	14643769

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.

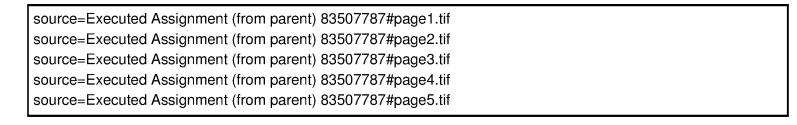
Phone: 503-459-4141 Email: fulton@ahmrt.com

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

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

ATTORNEY DOCKET NUMBER:	83507787
NAME OF SUBMITTER:	MAXFIELD FULTON
SIGNATURE:	/Maxfield Fulton/
DATE SIGNED:	03/10/2015

Total Attachments: 5



Attorney Docket Number	83252932	

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 Inventio	APPROACH FOR CONTROLLING OPERATION OF OIL INJECTORS	
This declaration is	directed to:	
X	The attached application, or	
	United States application or PCT international application number filed on	
The above-identifie	ed application was made or authorized to be made by me.	
I hereby state that I 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-par	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for tapplications, material information which became available between the filing date of the prior application and international filing date of the continuation-in-part application.	
GLOBAL TECHN Delaware, having it ASSIGNEE, its sue the inventions and other legal represe countries, entities a (and 1 hereby auth application to recei and 1 hereby sell, a including any pro intergovernmental	objects, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of ts principal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the coessors, 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 entatives 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 herize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the inventions Patent herein: Serial No. $13/644,568$, Filing Date $\frac{OCt}{4},\frac{4}{2012}$), assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, ovisional applications, in and to the inventions and discoveries in any and all countries, entities and organizations including all applications claiming benefit of the filing date hereof, continuations, continuations-invexaminations and reissue applications.	
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 repre	sent and warrant that I have not granted any rights inconsistent with the rights granted herein.	
	edge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or out more than five (5) years or both. F INVENTOR	
Inventor:	Clifford E. Maki Date: 09/24/2012	
Signature:	<u>Aljhod EMaki</u>	
	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an a form for each additional inventor.	

Attorney	Docket Number
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83252932

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 APPROACH FOR CONTROLLING OPERATION		APPROACH FOR CONTROLLING OPERATION OF OIL INJECTORS
This declaration i	is directe	d to:
X	The atta	ached application, or
		States application or PCT international application number filed on
The above-identif	fied appl	ication 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	n the oris	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-p	art appli	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for cations, material information which became available between the filing date of the prior application and ational filing date of the continuation-in-part application.
GLOBAL TECH 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	NOLOG tits prince dediscoversentative s and interize the cive Letter assign a provisional	tent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD IES, 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 sa, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to recies in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or to make applications and to receive Letters Patent for the inventions and discoveries in any and all ergovernmental 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 ters Patent herein: Serial No. $13/644$, 568 , Filing Date Oct. 4, 2012 , and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, all applications, in and to the inventions and discoveries in any and all countries, entities and reations including all applications claiming benefit of the filing date hereof, continuations, continuations-invariance and reissue applications.
applications for L perform any and	etters Pa all acts v	yself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including stent 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 old, assigned and set over.
And I hereby repr	resent an	d warrant that I have not granted any rights inconsistent with the rights granted herein.
imprisonment of i	not more	at 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 O	OF INVE	ENTOR
Inventor:	Ralph	Wayne Cunningham Date: 27 Sept 20/2
Signature: 🏒		W. Civing L
Note: An Applicat	tion Data on form f	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an or each additional inventor.

Please direct all correspondence to: 36865

Attorney Docket Number	83252932	

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)

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This declaration is directed to:			
Х	The attached application, or		
	United States application or PCT international application number filed on		
The above-identifi	ed 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	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for rt 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 TECHN Delaware, having ASSIGNEE, its su the inventions and other legal repress countries, entities (and I hereby aut application to rece and I hereby sell, including any pr intergovernmental	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 entatives 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 horize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filling date of the live Letters Patent herein: Serial No. $\frac{13/644,568}{568}$, Filling Date $\frac{\text{Oct. 4}, 2012}{\text{Oct. 4}}$, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, ovisional applications, in and to the inventions and discoveries in any and all countries, entities and organizations including all applications claiming benefit of the filling date hereof, continuations, continuations-in-examinations and reissue applications.		
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.			
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 O			
Inventor:	Jamie Charles Hanshaw Date: 9-27-12		
·	lun Mus		
Signature:			
Note: An Application additional declaration	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an a form for each additional inventor.		
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503.457-4PATENT

REEL: 035130 FRAME: 0805

Attorney Docket Number	83252932

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		APPROACH FOR CONTROLLING OPERATION OF OIL INJECTORS			
This declaration is directed to:					
	The attached application, or				
X	United States application or PCT international application number 13/644,568 filed on October 4, 2012				
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. 13/644,568, Filing Date October 4, 2012), 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, 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.					
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 C					
Inventor:	Yihua	(Eva) Barber Date: 02/13/2013			
Signature:		Hur Beh			
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.					

	Number

83252932

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	APPROACH FOR CONTROLLING OPERATION OF OIL INJECTORS		
This declaration is directe	d to:		
The atta	ached application, or		
	States application or PCT international application number 4,568 filed on October 4, 2012		
The above-identified appl	ication was made or authorized to be made by me.		
I hereby state that I have r claims.	eviewed and understand the contents of the specification in the above-identified application, including the		
I believe that I am the orig	inal inventor or an original joint inventor of a claimed invention in the application.		
continuation-in-part applic	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for cations, material information which became available between the filing date of the prior application and ational filing date of the continuation-in-part application.		
GLOBAL TECHNOLOG Delaware, having its princ ASSIGNEE, its successor the inventions and discov other legal representatives countries, entities and inte (and I hereby authorize that application to receive Lett over to the ASSIGNEE, applications, in and to the	ent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD IES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of ipal place of business at Dearborn, County of Wayne, and State of Michigan, hereinafter referred to as the s, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to eries in the above-identified invention including the right of the ASSIGNEE, its successors, assigns or to make applications and to receive Letters Patent for the inventions and discoveries in any and all ergovernmental organizations, in its or their own name or names, or in my name, at its or their election he ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the ters Patent herein: Serial No. 13/644,568, Filing Date October 4, 2012), and I hereby sell, assign and set its successors, assigns or other legal representatives, all rights of priority, including any provisional inventions and discoveries in any and all countries, entities and intergovernmental organizations including benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and		
applications for Letters Pa	reself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including tent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to thich the ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure ld, assigned and set over.		
And I hereby represent and	I warrant that I have not granted any rights inconsistent with the rights granted herein.		
imprisonment of not more			
LEGAL NAME OF INVE	2/2/19		
Signature: Data S	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an		
additional declaration form for			

PATENT REEL: 035130 FRAME: 0807

RECORDED: 03/10/2015