PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4505932

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THEODORE BEYER	06/03/2015
CHARLES JOSEPH PATANIS	06/03/2015
JON MICHAEL LACROIX	06/02/2015
JOSEPH KEENAN	06/03/2015
JONATHAN DENIS CROWE	06/02/2015

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:	15651202

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: 971-271-8020

Email: roberts@mccrus.com

Correspondent Name: MCCOY RUSSELL LLP

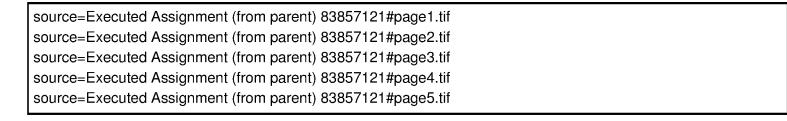
Address Line 1:806 S.W. BROADWAY, SUITE 600Address Line 4:PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83857121
NAME OF SUBMITTER:	LAURA ROBERTS
SIGNATURE:	/Laura Roberts/
DATE SIGNED:	07/17/2017

Total Attachments: 5

PATENT REEL: 043020 FRAME: 0957

504459231



r	**	**	**	÷	•	•••	•	•	•••	•	•	÷	•••	•	•	••	÷	÷	٠	*	~	**	•••	**		•	**	Υ.	***	**	***	بردد	×	'n	***	'n	3	,,,	77	,,,	,	,,,,	77	**	 	***	•	•	.,,	•	•	***	***	•
ţ.		×		4		i.				- 3	1	Ė,	٠.			~	×	٠,	1	٠.		ŭ.	٤.					1		2	7	٠.	٠.	۵	~	o	38																	
ζ.		~	Ŀί	ε	υ	8	8	С	v		u	ч	35	3	١.	u	1	- 3	N	u	4	83	X.	Λ	ж			1.	ź	٥.	ν.	Э.	3		ı.	o	٠,																	
٤.	-4	10	13		Э.		70			20						99	00	. O.	-50	7.7	-00	22																																

Title of Invention HYDRAULIC CIRCUIT FOR VALVE DEACTIVATION
This declaration is directed to:
The attached application, or United States application or PCT international application number filed on
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. 14/740,011 , Filing Date June 15,2015), 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 OF INVANTOR Inventor: /Theodore Bever // Date: US July 15
Signature 400/344
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.

٨																				ì														

Title of Invention	HYDRAULIC CIRCUIT FOR VALVE DEACTIVATION
This declaration is direct	ed to:
United	ached application, or States application or PCT international application number filed on
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	e reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the or	ginal 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 filing date of the prior nal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its stor the inventions and diname or names, or in my insert the serial/applica 14/740,011 ASSIGNEE, its success applications, in and to the serial of the se	nent 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 e, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, is 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 a name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date June 15,2015), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional me inventions and discoveries in any and all countries, entities and intergovernmental organizations has claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, we applications.
including applications for organizations, and to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental rform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives recure 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 t	nat 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	
Signsture: Charles J	complete Date: 12/23/2
Note: An Application Dat Use an additional declarati	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.

Attorney Docket Nur		

Title of Inven	tion	HYDRAUL	AC CIRCUIT F	OR VALVE	DEACTIVAT	ION
This declaration	i is directed	(0)	N			
The shove-iden	United St	ned application, or ates application or PCT is ation was made or author	filed on			
	hat I have i	eviewed and understand			n the above-ident	dified application,
I believe that I a	ım the origin	nal inventor or an original	I joint inventor of a	claimed inventio	n in the applicatio	m.
continuation-in-	part applies	sclose information which tions, material informa or PCT international filia	ation which becam	e available betv	veen the filing o	.56, including for late of the prior
FORD GLOBA of the State of hereinafter refe interest, domest of the ASSIGN for the inventioname or names, insert the serie 14/740, ASSIGNEE, it applications, in including all a reexaminations	L TECHNO Delaware, I rred to as if ic and foreig EE, its succ or in my no il/application 011 s successor and to the i pplications and reissue	at agreement heretofore in LOGIES, LLC, a Ford Massing its principal place in ASSIGNEE, its successors, assigns or other leveries in any and all countries in any and all countries in any and filing do principal filing Date Jungary, assigns or other leginations and discoverie claiming benefit of the applications.	Motor Company sub e of business at De essors, assigns or or one and discoveries legal representatives and on (and I hereby au ate of the applicate 15,2015 at representatives, as in any and all core filing date hereo	sidiary, organized arborn, County of their legal repression the above-ider to make applicated intergovernments thorize the ASSIG ion to receive), and I here all rights of partities, entities as f, continuations,	d and existing by of Wayne, and Sentatives, the enti- utified invention in the enti- utions and to recell organizations, in GNEE or ASSIG! Letters Patent be by sell, assign are iterity, including and intergovernment continuations-in-	virtue of the laws tate of Michigan, re right, title and neluding the right ive Letters Patent in its or their own NEE's attorney to erein: Serial No. and set over to the any provisional ntal organizations-part, divisionals,
including applications, a	cations for land to perfor	etters Patent of any and m any and all acts which re thereto the rights here	f all kinds and in a h the ASSIGNEE,	ny and all countr its successors, as	ies, entities and i	ntergovernmental
And I hereby re	present and	warrant that I have not gr	ranted any rights ins	consistent with th	e rights granted h	erein.
		any willful false stateme: e than five (5) years or be		laration is punish	able under 18 U.	S.C. 1001 by fine
LEGAL NAME				n Agus de la companya de la company La companya de la co	101.	
Inventor:	Jon Michael	LaCroix		Date;	-6/2/2015	F
Signature:	<u> 25 1</u>	H. Crang				
		neet (PTO/SB/14 or equiva		ng the entire inven	tive entity, must ac	company this form.

		*************		******	 ***************************************
- 6		N		O . OF . W. W. Ch. A.	
- 6	A toler was an extended	Anniest Simon	transmit it is	2 - 2 A VA	. 1
	Attorney D	20 1C 2C C 2	1000	1 . 1 . 2 . 2 . 1 . 1 . 2 . 4	

Title of Invent	tion HYDR	RAULIC CIRCUIT FOR VALVE DEACTIVATION
This declaration	is directed to:	
	The attached application, or United States application or	PCT international application number filed on
The above-ident	ified application was made or	authorized to be made by me.
I hereby state the including the cla		erstand the contents of the specification in the above-identified application,
I believe that I a	ım the original inventor or an	original joint inventor of a claimed invention in the application.
continuation-in-	part applications, material i	n which is material to patentability as defined in 37 C.F.R. 1.56, including for nformation which became available between the filing date of the prior nal filing date of the continuation-in-part application.
FORD GLOBA of the State of hereinafter refer interest, domest of the ASSIGN for the invention name or names, insert the seria 14/740,0 ASSIGNEE, it applications, in including all a reexaminations	L TECHNOLOGIES, LLC, a Delaware, having its principal red to as the ASSIGNEE, its ic and foreign, in and to the is EE, its successors, assigns or an and discoveries in any and or in my name, at its or their al/application number and five polication number and five polications, assigns or other and to the inventions and dispulsations claiming benefit and reissue applications.	tofore made or by contractual obligation, I do sell, assign and set over unto Ford Motor Company subsidiary, organized and existing by virtue of the laws all place of business at Dearborn, County of Wayne, and State of Michigan, a successors, assigns or other legal representatives, the entire right, title and eventions and discoveries in the above-identified invention including the right other legal representatives to make applications and to receive Letters Patent all countries, entities and intergovernmental organizations, in its or their own relection (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to lling date of the application to receive Letters Patent herein: Serial No. June 15,2015), and I hereby sell, assign and set over to the ner legal representatives, all rights of priority, including any provisional coveries in any and all countries, entities and intergovernmental organizations of the filing date hereof, continuations, continuations-in-part, divisionals,
including applic organizations, a	cations for Letters Patent of a and to perform any and all act	ccessors, assigns or other legal representatives to execute any and all papers any and all kinds and in any and all countries, entities and intergovernmental ts which the ASSIGNEE, its successors, assigns or other legal representatives hts herein sold, assigned and set over.
And I hereby re	present and warrant that I hav	e not granted any rights inconsistent with the rights granted herein.
I hereby acknow or imprisonmer	wledge that any willful false sat of not more than five (5) yes	statement made in this declaration is punishable under 18 U.S.C. 1001 by fine are or both.
LEGAL NAME	OF INVENTOR	
Inventor:	Joseph Keenan	Date: 6 3 / 3
Signature:	Call J. Harris	
Note: An Applic	cation Data Sheet (PTO/SB/14 or	r equivalent), including naming the entire inventive entity, must accompany this form,

Attorney i				

Title of Invention		HYDRAULIC CIRCUIT FOR VALVE DEACTIVATION						
This declaration is	direct	ted to:						
	The at	tached application, or States application or PCT international application number filed on						
		plication was made or authorized to be made by me.						
I hereby state the including the clai	at I ha ms.	ive reviewed and understand the contents of the specification in the above-identified application.						
I believe that I an	n the o	riginal inventor or an original joint inventor of a claimed invention in the application.						
I am aware of the	a duty	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for oplications, material information which became available between the filing date of the prior onal or PCT international filing date of the continuation-in-part application.						
FORD GLOBAL of the State of I hereinafter refers interest, domestic of the ASSIGNE for the invention name or names, insert the serial 14/740, (ASSIGNEE, its applications, in a including all apprecaminations of	TECH Delawa red to c and f E, its s and c or in n l/applic 011 succe and to pplicati and rei	yment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and foreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to estion number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————						
including applic	ations ad to r	or myself, my heirs, successors, assigns or other legal representatives to execute any and all papers for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives to secure thereto the rights herein sold, assigned and set over.						
\$		t and warrant that I have not granted any rights inconsistent with the rights granted herein.						
or imprisonmen	t of no	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years or both.						
LEGAL NAME	OF IN	VVENTOR an Denis Crowe Date: 4/2/18						
Inventor:		26 Come						
Note: An Applic Use an additional	ation I declar	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form ation form for each additional inventor.						