504411712 06/13/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4458412

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL JOSEPH STYLES	02/08/2013
JACK ADAMS	02/11/2013
KEITH MICHAEL PLAGENS	02/08/2013
NEAL JAMES COREY	02/11/2013
DAVID BORN	02/08/2013
XIAOGANG ZHANG	02/07/2013

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:	15621971

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 600
Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83817697
NAME OF SUBMITTER:	LAURA ROBERTS
SIGNATURE:	/Laura Roberts/
DATE SIGNED:	06/13/2017

Total Attachments: 6

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Attorney Docket Number	83352943
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Title of Invention	BRANCH COMMUNICATION VALVE FOR A TWIN SCROLL TURBOCHARGER
This declaration is direc	ited to:
	stached application, or d States application or PCT international application number filed onfiled.
The above-identified ap	plication was made or authorized to be made by me.
I hereby state that I had including the claims.	we reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part ap	to 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 onal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawa hereinafter referred to interest, domestic and to fithe ASSIGNEE, its for the inventions and on name or names, or in minsert the serial/applications, its succeapplications, in and to	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws re, 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 oreign, 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 mane, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ation number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
including applications organizations, and to p	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 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 I hereby represent	and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.
LEGAL NAME OF IN	
Šv.:	oseph Styles Date: 2009, 3
	nta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, ion form for each additional inventor.

Attorney Docket Number	83352943		

Title of Invent	ìon	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I COMMUN HARGER	ICATION	VALVE	FOR	Α	TWIN	SCROLL
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		ttached applic d States applic	ation or PCT inter		lication numbe			•	
The above-identi	fied a p	plication was	made or authorized	I to be made	by me.				
I hereby state the including the cla		ve reviewed i	and understand the	e contents of	the specifica	tion in th	e abo	ve-identifi	ed application,
I believe that I ar	n the o	riginal invento	r or an original joi	nt inventor o	f a claimed in	vention in	the ap	oplication.	
continuation-in-p	art ap	plications, ma	ormation which is sterial information sternational filing of	ı which bec	ame available	e betweer	the	filing date	
FORD GLOBAL of the State of I hereinafter refer interest, domestion of the ASSIGNE for the invention name or names, insert the serial 13/829,59 ASSIGNEE, its applications, in a including all apprexaminations is	TECH Delawared to a e and for a second for a second successing to to to the second for a second	INOLOGIES, re, having its as the ASSIG oreign, in and successors, assists overies in a successor, as a successor, at its ation number, Filingssors, assigns he inventions ons claiming sue application		or Company: business at its, assigns of and discoverial representations, entities a and I hereby of the applant 14, 201 representative any and all ing date her	subsidiary, org Dearborn, Co r other legal r es in the above ives to make a nd intergovern authorize the ication to reco 3), and es, all rights countries, enti- reof, continua	ganized an ounty of N representa- re-identifica- application imental of ASSIGNI reive Lett I hereby of priori- ties and in tions, con	d exist Wayne tives, and invasion and rganizers or ters P sell, a tty, intergontinua	sting by vire, and State the entire ention included to receive ations, in it assign and actuding a evernmentations-in-pa	tue of the laws of Michigan, right, title and uding the right. Letters Patent ts or their own E's attorney to in: Serial No. set over to the ny provisional l organizations rt, divisionals,
including applic organizations, as	ations l	for Letters Paterform any an	eirs, successors, a ent of any and all d all acts which th the rights herein s	kinds and in a ASSIGNE	n any and all E, its successo	countries, ors, assign	entiti	es and inte	ergovernmental
And I hereby rep	resent	and warrant th	at I have not grant	ed any rights	inconsistent v	vith the ri	ghts g	ranted here	in.
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			SB/14 or equivalent		uning the entire	inventive	entity,	must accor	npany this form.

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Atterney Docket Number	1 033324243	
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Title of Invention	BRANCH COMMUNICATION VALVE FOR A TWIN SCROLL TURBOCHARGER
This declaration is direct	cted to:
Unite	attached application, or ed States application or PCT international application number filed on
The above-identified ap	pplication was made or authorized to be made by me.
I hereby state that I had including the claims.	ave reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part ar	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for pplications, material information which became available between the filing date of the prior ional or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECT of the State of Delaws hereinafter referred to interest, domestic and to fithe ASSIGNEE, its for the inventions and name or names, or in n insert the serial/applications, its succeapplications, in and to	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 cation number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
including applications organizations, and to p	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 a secure thereto the rights herein sold, assigned and set over.
And I hereby represent	t and warrant that I have not granted any rights inconsistent with the rights granted herein.
	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	IVENTOR Z/a/2-12
Inventor: Keith N	Michael Plagens Date: Z/8/2C/3
Signature:	to Michael Regan
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declara	ation form for each additional inventor:

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Attorney Docket Number	83352943	
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Title of invention	TURBOCHARGER						
This declaration is direct	rted to:						
	attached application, or ed States application or PCT international application number filed on						
The above-identified ap	oplication was made or authorized to be made by me.						
I hereby state that I had including the claims.	ave reviewed and understand the contents of the specification in the above-identified application,						
I believe that I am the o	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.						
continuation-in-part ap	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.						
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 filling date of the application to receive Letters Patent herein: Serial No. 13/829,599 , Filing Date March 14, 2013), 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.							
including applications organizations, and to p	r 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 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 I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.							
or imprisonment of not	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.						
LEGAL NAME OF IN	WENTOR mes Corey Date: 2/11/2013						
	100						
Signature:	fur 77						
	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. tion form for each additional inventor.						

Attorney Docket Number	83352943	

Title of Invent	ion	!	H CON	IMUNICATION	VALVE	FOR	Α	TWIN	SCROLL
This declaration	ìs direc	A CONTRACTOR OF THE PARTY OF TH	CHAILOS.						
	The a Unite	ttached appl d States app	lication or Po	CT international app				÷	
The above-identi	ified ap	plication wa	s made or au	thorized to be made	by me.				
I hereby state the including the cla		ve reviewed	and unders	stand the contents o	f the specifica	tion in th	e abo	ve-identifi	ed application,
I believe that I at	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. 13/829,599 , Filing Date March 14, 2013), 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 applic organizations, at	ations t	for Letters P erform any a	atent of any and all acts v	and all kinds and i which the ASSIGNE herein sold, assigned	n any and all o E, its successo	countries,	entitie	es and inte	ergovernmental
				ot granted any rights					
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			4.		- defeat	ge ^{et}	7 /	&/531	
Inventor:I	2avid)E	torn	77.7A		Da	ite: 🔣		J 201.	<u>,</u>
Signature:	24.2				·			-	
Note: An Applica				uivalent), including n	iming the entire	inventive	entity.	must accon	npany this form.

RECORDED: 06/13/2017

	83352943	

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	BRANCH COMMUNICATION VALVE FOR A TWIN SCROLL TURBOCHARGER					
This declaration is direct	ted to:					
United United	ttached application, or d States application or PCT international application number filed on					
The above-identified app	plication was made or authorized to be made by me.					
I hereby state that I had including the claims.	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 or	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. 13/829,599 , Filing Date March 14, 2013), 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 INV	VENTOR					
Inventor: Xiaogan	g Zhang Date: 2/7/20/3					
Signature:						
	the Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, ion form for each additional inventor.					