PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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	
City:	Dearborn	
State/Country:	MICHIGAN	
Postal Code:	48126	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13829599

CORRESPONDENCE DATA

Fax Number: 5034594142

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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

Correspondent Name: Alleman Hall McCoy Russell & Tuttle LLP

Address Line 1: 806 SW Broadway, Suite 600 Address Line 4: Portland, OREGON 97205

ATTORNEY DOCKET NUMBER:	83352943
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NAME OF SUBMITTER: Samantha Filley

REEL: 030180 FRAME: 0135

PATENT

502304253

Signature:	/Samantha Filley/
Date: 04/09/2013	
Total Attachments: 6 source=Executed Assignment 83352943#ps	age2.tif age3.tif age4.tif age4.tif

Attorney Docket Number	83352943	

Title of Invention	BRANCH COMMUNICATION VALVE FOR A TWIN SCROLL TURBOCHARGER
This declaration is direc	cted to:
	attached application, or ad 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.	eve 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 eplications, 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 oname 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 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 may name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to attoin number and filing date of the application to receive Letters Patent herein: Serial No. —, Filing Date March 14, 2013 —), and I hereby sell, assign and set over to the essors, assigns or other legal representatives, all rights of priority, including any provisional the inventions and discoveries in any and all countries, entities and intergovernmental organizations ons claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, usual applications.
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 Inventor: Daniel I	
&:	loseph Styles Date: 2003
	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	ìon	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I COMMUNI: HARGER	CATION	VALVE	FOR	Α	TWIN	SCROLL
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		ttached applic d States applic	ation or PCT interr		lication numbe			ė	
The above-identi	fied a p	plication was	nade or authorized	to be made	by me.				
I hereby state the including the cla		ve reviewed i	and understand the	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 joir	nt inventor o	f a claimed in	vention in	the ap	pplication.	
continuation-in-p	art ap	plications, ma	ormation which is interial information temational filing date	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 E, its a s and d or in m Application succes and to t eplication and reis	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	ent heretofore made LLC, a Ford Motor principal place of NEE, its successor, to the inventions arisigns or other legal any and all countries or their election (a and filling date of Date March or other legal reand discoveries in benefit of the fillins.	r Company: business at s, assigns o nd discoveri representaties, entities a nd I hereby of the appl 14, 201 epresentative any and all ng 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 and and and as, all rights countries, enti-	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 rention included to receive the total actions, in its ASSIGNE ratent here assign and actions are rentions are rentions are rentions and the total actions are rentions are rentions.	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 I ad to pe	for Letters Paterform any an	ents, successors, as ent of any and all d all acts which the the rights herein so	kinds and in 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 grante	ed any rights	inconsistent v	vith the ri	ghts g	ranted here	in.
			I false statement m (5) years or both.	ade in this	declaration is	punishabl	e unde	er 18 U.S.C	2. 1001 by fine
LEGAL NAME Inventor:)	OF IN	,			n	ate: 7	- /s	v/13	
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Signature:	<u>all</u>	/s. <u> </u>	<u> </u>		,				
			SB/14 or equivalent).		uning the entire	inventive	entity,	, must accor	npany this form.

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Atterney Docket Number	83352943	
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Title of Invention	BRANCH COMMUNICATION VALVE FOR A TWIN SCROLL TURBOCHARGER
This declaration is direc	ted to:
Unite	ttached application, or d States application or PCT international application number filed on
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 or	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 and 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 for of the ASSIGNEE, its for the inventions and d name or names, or in m insert the serial/applications, its success applications, in and to te	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 many name, 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 I organizations, and to pe	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	
Inventor: <u>Keith M</u>	lichael Plagens Date: 2/8/2013
Signature:	2 Michael Hegen
	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form,

Attorney Docket Number	83352943	

I me of invention	TURBOCHARGER		
This declaration is direc	ted to:		
	ttached application, or d States application or PCT international application number filed on		
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 for the ASSIGNEE, its for the inventions and character 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 an another the successors, assigns as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and doreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own manner, 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.			
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 IN	VENTOR nes Correy Date: 2/11/2013		
10.1	Date. 27,172.55		
Signature:	Har Y T		
	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

Attorney Docket Number	83352943	

Title of Inventi	ion	:	ICH CO	MMUNICA' SER	TION	VALVE	FOR	A	TWIN	SCROLL
This declaration i	is direc	ted to:								
	United	d States ap		PCT internation						
The above-identi	fied app	plication v	vas made or	authorized to b	e made t	y me.				
I hereby state the including the claim		ve review	ed and unde	erstand the con	itents of	the specifical	tion in the	e abo	ve-identific	ed application,
I believe that I an	n the or	riginal inv	entor or an o	riginal joint inv	ventor of	'a claimed inv	ention in	the ap	oplication.	***************************************
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 berein: 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, an	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 rep	resent a	and warra	nt that I have	not granted an	y rights	inconsistent w	ith the rig	hts gr	anted here	in.
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:								7 /		
Inventor: _D	avid (P	3om				Da	te:		Y201.,	3 3
Signature:	Ma.	u-4				.				
Note: An Applica	ation Da	ita Sheet (P	TO/SB/14 or	equivalent), incl	uding nar	ning the entire	inventive	entity.	must accon	apany this form.
Use an additional o	declarati	ion form fo	r each addition	ial inventor.						

RECORDED: 04/09/2013

Attorney Docket Number	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	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 have reviewed and understand the contents of the specification in the above-identified application, including the claims.					
I believe that I am the or	riginal 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 seli, 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 IN	VENTOR				
Inventor: Xiaogan	g Zhang Date: 2/7/20/3				
Signature:					
\$25, \$25, \$25, \$20, \$20, \$20, \$20, \$20, \$20, \$20, \$20	re of all approved to a least to the state of the state o				
	the Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, ion form for each additional inventor.				