### 502757811 04/08/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2804407

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
XIAOYONG WANG	04/01/2014
WEI LIANG	04/07/2014
MING LANG KUANG	04/01/2014
RAJIT JOHRI	04/04/2014
DANIEL SCOTT COLVIN	04/01/2014
MARK STEVEN YAMAZAKI	04/04/2014

### **RECEIVING PARTY DATA**

Name:	FORD GLOBAL TECHNOLOGIES, LLC
Street Address:	330 TOWN CENTER DRIVE
Internal Address:	FAIRLANE PLAZA SOUTH, SUITE 800
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14247389

### **CORRESPONDENCE DATA**

**Fax Number:** (313)322-7162

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

**Phone:** 248-358-4400

Email: LFreismuth@brookskushman.com
Correspondent Name: BROOKS KUSHMAN P.C./FGTL

Address Line 1: 1000 TOWN CENTER

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER:	83420979
NAME OF SUBMITTER:	LIDIA FREISMUTH
SIGNATURE:	/Lidia Freismuth/
DATE SIGNED:	04/08/2014

# Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif

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Annual Control of the Control	1 00400000	
Attorney Docket Num	ber 83420979	

-	Title of Invention	STEP-RATIO TRANSMISSION CONTROL FOR A HYBRID VEHICLE
-	This declaration is direct	ed to:
		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 ori	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 TECHL of the State of Delaward hereinafter referred to an interest, domestic and for of the ASSIGNEE, its su for the inventions and di name or names, or in my insert the serial/applicat 14/247,389  ASSIGNEE, its success applications, in and to th	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 by having its principal place of business at Dearborn, County of Wayne, and State of Michigan, at 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 accessors, assigns or other legal representatives and intergovernmental organizations, in its or their own transe, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the sum of the principal place April 8, 2014), and I hereby sell, assign and set over to the tors, assigns or other legal representatives, all rights of priority, including any provisional to inventions and discoveries in any and all countries, entities and intergovernmental organizations are claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, the applications.
	including applications for organizations, and to per	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, in Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure 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.
-	I hereby acknowledge the or imprisonment of not n	at 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	ENTOR (/-/-2 >//
	Inventor: Xiaoyong	waig
	Signature:	eang toping
	Note: An Application Date Use an additional declaration	s Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Attorney Docket Number	83420979

STEP-RATIO TRANSMISSION CONTROL FOR A HYBRID VEHICLE		
This declaration is directed to:		
X 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.		
hereby state that I have reviewed and understand the contents of the specification in the above-identified application, including the claims.		
believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
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. 14/247,389 , 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 INVENTOR		
Inventor: Wei Liang Date: 07/0//14		
Signature:		
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.		

Attorney Docket Number	83420979

Title of Invention	STEP-RATIO TRANSMISSION CONTROL FOR A HYBRID VEHICLE	
This declaration is di	rected to:	
	ne attached application, or nited States application or PCT international application numberfiled on	
The above-identified	application was made or authorized to be made by me.	
I hereby state that I including the claims.	have reviewed and understand the contents of the specification in the above-identified application,	
I believe that I am th	e 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.		
FORD GLOBAL THE of the State of Dela hereinafter referred interest, domestic an of the ASSIGNEE, if for the inventions at name or names, or it insert the serial/app 14/247,389  ASSIGNEE, its sugardications, in and	bloyment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto a CHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws aware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and ad foreign, in and to the inventions and discoveries in the above-identified invention including the right its successors, assigns or other legal representatives to make applications and to receive Letters Patent and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own and many name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to oblication number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————	
including application organizations, and to	for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, ns for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental o 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.	
And I hereby represe	ent and warrant that I have not granted any rights inconsistent with the rights granted herein.	
I hereby acknowled	ge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine not more than five (5) years or both.	
LEGAL NAME OF		
	Lang Kuang Date: 4/1/2014	
Signature:	WHOW	
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	
Note: An Application Use an additional deci	aration form for each additional inventor.	

_	Attorney Docket Number 83420979

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I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
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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. 14/247,389 , Filling Date April 8, 2014 , 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 filling 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 a	nd 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	ENTOR DA Intel a DA	
Inventor: Rajit Joh	n Daw.	
Signature: Toy Say		
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.		

Attorney Docket Number	83420979

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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 nail or PCT international filing date of the continuation-in-part application.
of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffer the inventions and displayed in the serial/applicated 14/247,389  ASSIGNEE, its success applications, in and to the	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 c, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, 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 acoveries in any and all countries, entities and intergovernmental organizations, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to also number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
including applications for organizations, and to per	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, r Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure thereto the rights herein sold, assigned and set over.
And I hereby represent ar	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not in	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both.
LEGAL NAME OF INVI	4/1/4
Signature: Daniel Sci	or Colvin Date: — 7/1/1/
Note: An Application Data	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to: 28395

Attorney Docket Number	83420979
radilley Docket Halliott	ODTEO/I/

# 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	STEP-RATIO TRANSMISSION CONTROL FOR A HYBRID VEHICLE	
This declaration is direct	ed to:	
	tached application, or  I States application or PCT international application number	
The above-identified app	lication 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.		
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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its sifor the inventions and diname or names, or in my insert the serial/applica 14/247,389  ASSIGNEE, its succes applications, in and to the including all application reexaminations and reiss.  And I hereby agree for including applications for organizations, and to perform the state of the state	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 of name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the number and filling date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————	
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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		
	ven Yamazaki Date: 7/9/80/19	
Signature:	Mrs of 4	
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	

PATENT REEL: 032624 FRAME: 0370

RECORDED: 04/08/2014