### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2571702

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MATTHEW ROGER DEDONA	10/03/2013
ARTHUR M. RUTYNA	10/07/2013
MARK J. FERREL	10/03/2013
BO WU	10/02/2013
HILDE ANNE HEREMANS	10/07/2013
CHRISTOPHER W. BELL	10/04/2013

### **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
Ar	oplication Number:	14049670

### **CORRESPONDENCE DATA**

Fax Number: (313)322-7162 Phone: 248-358-4400

Email: jrichmond@brookskushman.com

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

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: 83387091

PATENT

502526475 REEL: 031373 FRAME: 0693

NAME OF SUBMITTER:	JODY RICHMOND
Signature:	/Jody Richmond/
Date:	10/09/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
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	

		e e
Attorney Docket Nu	mahar   X 4 4 X // 15	<i>i</i> :
L Almeney Linckel Figure	HDCL LOSSO107	4
FREEDOMINA) TO CO CONTROL OF THE		

# 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	CONTROL PILOT LATCH-OUT MECHANISM TO REDUCE OFF-BOARD ENERGY CONSUMPTION
This declaration is direct	ed to:
[] United	tached application, or  I States application or PCT international application number  filed on
The above-identified app	olication was made or authorized to be made by me.
I hereby state that I ha including the claims.	ve reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.
and investigation in most own	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for oblications, material information which became available between the filing date of the prior and or PCT international filing date of the continuation-in-part application.
for the State of Delawahereinafter referred to a interest, domestic and for the ASSIGNEE, its affor the inventions and chame or names, or in minsert the serial/applic 14/049,670.  ASSIGNEE, its succe	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 preign, 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 by 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 October 9, 2013), and I hereby sell, assign and set over to the soors, assigns or other legal representatives, all rights of priority, including any provisional he 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, sue applications.
including applications	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 warrant that I have not granted any rights inconsistent with the rights granted herein.
1 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 LEGAL NAME OF IN	niore than five (5) years or both.
Inventor: Matthey	VENTOR venoger DeDona  Date: 3 e c 7 2 e 1 3
A T	
Signature:	
Note: An Application D	ata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Use an additional declara	tion form for each additional inventor.

PATENT

**REEL: 031373 FRAME: 0695** 

Attorney Docket Number	8	3387091		

# 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 Invent	BOARD ENERGY CONSUMPTION	IISM TO	REDUCE	OFF-
This declaration i	is directed to:	Managara de Carlos d	*******************************	Marine in the proposed school
X	The attached application, or United States application or PCT international application numberfiled on	waxaanaanaanaanaanaanaanaanaanaanaanaanaa		
The above-identi	fied application was made or authorized to be made by me.			
I hereby state the including the clai	at I have reviewed and understand the contents of the specification ims.	in the above-i	dentified applic	cation,
I believe that I am	n the original inventor or an original joint inventor of a claimed invention	on in the applic	cation.	
continuation-in-pa	e duty to disclose information which is material to patentability as defi- art applications, material information which became available bet se national or PCT international filing date of the continuation-in-part a	ween the filin	R. 1.56, including date of the	ng for prior
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. $14/049$ , $670$ , Filing Date October 9, 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 acknowle or imprisonment o	edge that any willful false statement made in this declaration is punish of not more than five (5) years or both.	nable under 18	U.S.C. 1001 by	/ fine
LEGAL NAME O		10/2/2	4: 49.7	*****************
Inventor: Art Signature:	Mur M Rutyna Date:	- 172	2013	
Note: An Application	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventory	tive entity, must	accompany this	form.

Attorney Docket Number	83387091

## 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	BOARD ENERGY CONSUMPTION	
This declaration is direct		
X The at	tached application, or I States application or PCT international application number filed on	
	slication was made or authorized to be made by me.	
I hereby state that I have including the claims.	ve reviewed and understand the contents of the specification in the above-identified application,	
I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for discations, material information which became available between the filing date of the prior nal 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. 14/049,670 , Filing Date October 9, 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 for 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 enform 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 20. J. 20. 7	
Inventor: Mark J.	Ferrel Date: 2022	
Signature:	15/74ml	
Miles As Amissipated the	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	
Use an additional declarati	is sincer (FTA/SB/14 of equivalent), including than ing the critic directive entity, must eccurpally this form for each additional inventor.	

A	02505001	
Attorney Docket Number	83387091	

### 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				LATCH-OUT ONSUMPTION		MANISM	ТО	REDUCE	OFF-
This declaration	This declaration is directed to:								
X D	United		or PCT in	nternational applicat					
The above-identi	ified app	dication was made	or authori	zed to be made by t	ne.				
I hereby state the including the cla		e reviewed and u	inderstand	the contents of the	s specific	ation in the	above	-identified app	olication,
I believe that I a	m the or	iginal inventor or a	ın original	joint inventor of a	alaimed ir	nvention in t	he app	lication.	
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. 14/049,670 , Filing Date October 9, 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 Inventor: E	OF INV 30 Wu	ENTOR		Date		10/2	1/2	013	
Signature:	2			Date.	- iceo	······································			
No. 4 A Start D. Ch. (OTYGEN) and Labora belief to the start for the start of the s									
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	83387091

## 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		CONTROL PILOT LATCH-OUT MECHANISM TO REDUCE OFF-BOARD ENERGY CONSUMPTION			
This declaration is directed to:					
$\stackrel{x}{\Box}$	United	tached application, or I States application or PCT international application numberfiled on			
The above-identif	ied app	lication was made or authorized to be made by me.			
I hereby state the including the claim	it I hav ns.	re 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-pa	art 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 hal or PCT international filing date of the continuation-in-part application.			
of the State of D hereinafter referre interest, domestic of the ASSIGNEI for the inventions name or names, o insert the serial/14/049,670 ASSIGNEE, its applications, in an	TECHN elaware ed to as and for and dis r in my applicat success id to the lication	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 at 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 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 name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————			
including applicat organizations, and	ions fo I 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 repre	esent an	nd warrant that I have not granted any rights inconsistent with the rights granted herein.			
or imprisonment o	f not m	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine tore than five (5) years or both.			
LEGAL NAME C		and the second s			
Inventor: Hi Signature:		Date: 12/7/2013			
Note: An Applicati Use an additional de	on Data claration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.			

83387091

# 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 Invent	**************************************	CONTROL PILOT LATCH-OUT MECHANISM T	O DEDUCE	~EE	
THE OF INVENT	3011	BOARD ENERGY CONSUMPTION	O KEDUCE	Orr-	
This declaration	is direc		······································	***********	
×	The attached application, or United States application or PCT international application numberfiled on				
The above-identi	ified app	plication was made or authorized to be made by me.			
I hereby state the including the class		ve reviewed and understand the contents of the specification in the ab	ove-identified app	lication,	
I believe that I ar	n the or	riginal inventor or an original joint inventor of a claimed invention in the	application.		
continuation-in-p	oart app	to disclose information which is material to patentability as defined in 37 plications, material information which became available between the onal or PCT international filing date of the continuation-in-part application	filing date of the		
FORD GLOBAL of the State of L hereinafter refer interest, domestic of the ASSIGNE for the invention name or names, ansert the serial 14/049,67  ASSIGNEE, its applications, in a	TECH.  TECH to see and fice and fice and fice and fice and dispersion mylapplicary of successing to the plication.	ment agreement heretofore made or by contractual obligation, I do sell the the theorem is the ASSIGNEE, its successors, assigns or other legal representatives, oreign, in and to the inventions and discoveries in the above-identified in successors, assigns or other legal representatives to make applications an iscoveries in any and all countries, entities and intergovernmental organity name, at its or their election (and I hereby authorize the ASSIGNEE or ation number and filing date of the application to receive Letters In Filing Date October 9, 2013), and I hereby sell, isors, assigns or other legal representatives, all rights of priority, is the inventions and discoveries in any and all countries, entities and intergrans claiming benefit of the filing date hereof, continuations, continuations are applications.	isting by virtue of the, and State of M, the entire right, the vention including the to receive Letter zations, in its or the ASSIGNEE's attempt therein: Ser assign and set over including any proportions of M. T.	he laws ichigan, itle and he right s Patent eir own orney to ial No. or to the visional izations	
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 warrant that I have not granted any rights inconsistent with the rights g	granted herein.		
I hereby acknowly or imprisonment	ledge th	nat any willful false statement made in this declaration is punishable und nore than five (5) years or both.	ler 18 U.S.C. 1001	by fine	
LEGAL NAME	OF INV	/ENTOR/)	11/2 2 20		
Inventor: <u>C</u> Signature:	hristoph	ner W. Ney Date: 170	74/2013	***************************************	
Note: An Applica	tion Dat	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive units	must paramany th	is form	

Use an additional declaration form for each additional inventor.

RECORDED: 10/09/2013

REEL: 031373 FRAME: 0700