503447412 08/21/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3494037

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRIS PAUL GLUGLA	08/17/2015
JAMES MATTHEW KINDREE	08/05/2015
LEE BENJAMIN MCQUINN	08/04/2015

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:	14832785

CORRESPONDENCE DATA

Fax Number: (503)459-4142

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.

503-459-4141 Phone:

Email: enabnit@ahmrt.com

Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP

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

ATTORNEY DOCKET NUMBER:	83556922
NAME OF SUBMITTER:	JIBEK ENABNIT
SIGNATURE:	/Jibek Enabnit/
DATE SIGNED:	08/21/2015

Total Attachments: 3

source=Executed Assignment 83556922#page1.tif source=Executed Assignment 83556922#page2.tif source=Executed Assignment 83556922#page3.tif

> **PATENT REEL: 036394 FRAME: 0589** 503447412

Attorney Docket Number	Company of the compan	-
	83556922	
The state of the s		

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Time of Inven	on MF1H6	OD AND SYSTEM FOR PRE-IGNITION CONTROL
This declaration	s directed to:	
	The attached application, or United States application or	PCT international application number
The above-ident	ied application was made or a	authorized to be made by me.
I hereby state the including the cla	it I have reviewed and undens.	erstand the contents of the specification in the above-identified application,
I believe that I ar	the original inventor or an or	riginal joint inventor of a claimed invention in the application.
communion-in-p	irt applications, material inf	which is material to patentability as defined in 37 C.F.R. 1.56, including for formation which became available between the filing date of the prior al filing date of the continuation-in-part application.
of the State of E hereinafter referrinterest, domestic of the ASSIGNE for the inventions name or names, consert the serial/ 14/832,7 ASSIGNEE, its applications, in an including all appreexaminations are	TECHNOLOGIES, LLC, a Felaware, having its principal d to as the ASSIGNEE, its and foreign, in and to the invit, its successors, assigns or of and discoveries in any and all in my name, at its or their epplication number and filtrest principal filtrest principa	ofore made or by contractual obligation, I do sell, assign and set over untoford Motor Company subsidiary, organized and existing by virtue of the laws place of business at Dearborn, County of Wayne, and State of Michigan, successors, assigns or other legal representatives, the entire right, title and ventions and discoveries in the above-identified invention including the right other legal representatives to make applications and to receive Letters Patent III countries, entities and intergovernmental organizations, in its or their own election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to any date of the application to receive Letters Patent herein: Serial No. August 21,2015), and I hereby sell, assign and set over to the relegal representatives, all rights of priority, including any provisional everies in any and all countries, entities and intergovernmental organizations of the filing date hereof, continuations, continuations-in-part, divisionals,
organizations, and	to perform any and all acts to	essors, assigns or other legal representatives to execute any and all papers, y and all kinds and in any and all countries, entities and intergovernmental which the ASSIGNEE, its successors, assigns or other legal representatives herein sold, assigned and set over.
And I hereby repr	sent and warrant that I have n	not granted any rights inconsistent with the rights granted herein.
I hereby acknowle or imprisonment o LEGAL NAME O	not more than five (5) years	tement made in this declaration is punishable under 18 U.S.C. 1001 by fine or both.
	is Paul Glugla	Date: 8 - 17 - 2015
Signature:	L. P. SY	
Note: An Applicati Use an additional de	n Data Sheet (PTO/SB/14 or eq laration form for each additional	privalent), including naming the entire inventive entity, must accompany this form.

PATENT REEL: 036394 FRAME: 0590

Attorney Docket Number	83556922

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Inventi	on	METHOD AND SYSTEM FOR PRE-IGNITION CONTROL	
This declaration i	This declaration is directed to:		
	United	ached application, or States application or PCT international application number filed on	
The above-identif	fied 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.		
I believe that I an	the ori	ginal 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. 14/832,785 , Filing Date August 21,2015 , 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 repr	resent ai	nd warrant that I have not granted any rights inconsistent with the rights granted herein.	
or imprisonment	of not n	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 (Inventor: Ja		ENTOR utthew Kindree Date: 8/5/2015	
Signature: James M. Lindru			
		s Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.	

PATENT REEL: 036394 FRAME: 0591

Attorney Docket Number	83556922	(

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	METHOD AND SYSTEM FOR PRE-IGNITION CONTROL
This declaration is direct	ed to:
United	tached application, or ! States application or PCT international application numberfiled on
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	re 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.
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. 14/832,785, Filing Date August 21,2015, 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.	
including applications for organizations, and to per	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 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 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	38 7 6.3 7 3 1 N 1 N
	anin McQuinn Date: 8/7/20/3
Signature:	~ CASA
Noie: An Application Data Use an additional declaration	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.

PATENT REEL: 036394 FRAME: 0592

RECORDED: 08/21/2015