### 504588013 10/10/2017

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4634725

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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RUSSELL RANDALL PEARCE	09/07/2017
DENNIS SEUNG-MAN YANG	09/06/2017

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

Property Type	Number
Application Number:	15688804

#### **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	83854655
NAME OF SUBMITTER:	ASHLEY R. TAPIA
SIGNATURE:	/Ashley R. Tapia/
DATE SIGNED:	10/10/2017

#### **Total Attachments: 3**

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PATENT 504588013 REEL: 043828 FRAME: 0987

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Attorney Docket Number		

## 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)

SYSTEMS AND METHODS FOR INFERRING FUEL VAPOR

Title of Invention	SYSTEMS AND METHODS FOR INFERRING FUEL VAPOR
	CANISTER LOADING RATE
This declaration is direct	ed to:
	tached application, or States application or PCT international application number 88.804 filed on August 28, 2017 (I hereby authorize the insertion of the application filing form when they become known.)
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 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 nat or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its set for the inventions and disname or names, or in my insert the serial/applications and set over to the any provisional application intergovernmental organicontinuations-in-part, divided And I hereby agree for a including applications for organizations, and to per	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 behaving 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 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 the interpretation of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
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	78 78 XX
Inventor: Aed M. D  Signature:	Date: VSV/EV/
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, n form for each additional inventor.

**PATENT REEL: 043828 FRAME: 0988** 

Attorney Docket Number 83854655

# 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)

Tick of Invention	SYSTEMS AND METHODS FOR INFERRING FUEL VAPOR CANISTER LOADING RATE
The declaration is directed	OT COMPANY OF THE PROPERTY OF
☑ (maed St 	ed application, or uses application or PCT international application number  804 filed on August 28, 2017 (I hereby authorize the insertion of the application filing m when they become known.)
The above-identified applica	tion was made or authorized to be made by me.
I density state that I have a accluding the claims.	rviewed and understand the contents of the specification in the above-identified application,
I delieve that I am the origin	avenue or an original joint inventor of a claimed invention in the application.
communica-in-part applica	classe information which is material to patentability as defined in 37 C.F.R. 1.56, including for these, material information which became available between the filling date of the prior of PCT international filling date of the continuation-in-part application.
TECHNORS OF CHANGE IN THE STATE OF THE STATE	agreement heretofore made or by contractual obligation, I do sell, assign and set over unto OGRS LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws warg its principal place of business at Dearborn, County of Wayne, and State of Michigan, ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and to its inventions and discoveries in the above-identified invention including the right sors, assigns or other legal representatives to make applications and to receive Letters Patent eries in any and all countries, entities and intergovernmental organizations, in its or their own recail its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to sumber and filing date of the application to receive Letters Patent herein. Serial No.  Filing Date August 28, 2017 and I hereby sell.  SECNEE, its successors, assigns or other legal representatives all rights of priority, including a sum and to the inventions and discoveries in any and all countries, entities and the successors and discoveries in any and all countries, entities and the successors and reissue applications.
Tancations, and to perform	if, my herrs, successors, assigns or other legal representatives to execute any and all papers, steers Patent of any and all kinds and in any and all countries, entities and intergovernmental any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives thereto the rights herein sold, assigned and set over.
Secretary represent and wo	that I have not granted any rights inconsistent with the rights granted herein.
LALVANE OF DAYER	
er for Application Data State on additional declaration form	(PTO SERVA) or expressions, including maning the cuttle recentive court, must accompany this form.

PATENT REEL: 043828 FRAME: 0989

Attorney Docket Number	02054655	
1 Augmey Docket Number	83834033	
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# 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	SYSTEMS AND METHODS FOR INFERRING FUEL VAPOR
	CANISTER LOADING RATE
This declaration is directed	
⊠ United	sached application, or States application or PCT international application number 88.804 filed on <u>August 28, 2017</u> . (I hereby authorize the insertion of the application filing form when they become known.)
The above-identified appl	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 orig	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part appl	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for ications, material information which became available between the filing date of the prior all or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHN of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and disname or names, or in my insert the serial/application 15/688,804	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, 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 coessors, 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 ion number and filing date of the application to receive Letters Patent herein: Serial No.  August 28, 2017.  August 28, 2017.  August 28, 2017.  August 28, 2017.
assign and set over to the any provisional applicat intergovernmental organi	ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including tions, in and to the inventions and discoveries in any and all countries, entities and izations including all applications claiming benefit of the filing date hereof, continuations, isionals, reexaminations and reissue applications.
including applications for organizations, and to perf	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, 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 cure thereto the rights herein sold, assigned and set over:
And I hereby represent an	d warrant that I have not granted any rights inconsistent with the rights granted herein.
I hereby acknowledge that or imprisonment of not mo	it any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.
LEGAL NAME OF INVE	NTOR
Inventor: <u>Dennis:Sec</u>	ung-Man Yang Date: 9/6/17
Signature:	7
Note: An Application Data Use an additional declaration	Sheet/(PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form form form for each additional inventor.

PATENT REEL: 043828 FRAME: 0990

**RECORDED: 10/10/2017**