### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4050081

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PASPULETI ASHISH KUMAR NAIDU	08/08/2016
IAN HALLERON	08/24/2016
PETER GEORGE BRITTLE	08/09/2016
JAMES WRIGHT	08/08/2016

### **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:	15233329

### **CORRESPONDENCE DATA**

Fax Number:

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.

**Phone:** 248-358-4400

Email:cdara@brookskushman.comCorrespondent Name:BROOKS KUSHMAN P.C.Address Line 1:1000 TOWN CENTER

Address Line 2: TWENTY-SECOND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	83700360
NAME OF SUBMITTER:	DAVID S. BIR
SIGNATURE:	/David S. Bir/
DATE SIGNED:	09/13/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 504003425 REEL: 040022 FRAME: 0518

# Total Attachments: 4 source=ExecutedDocs#page1.tif source=ExecutedDocs#page2.tif source=ExecutedDocs#page3.tif source=ExecutedDocs#page4.tif

Please direct all correspondence to: 28395

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Attorney Docket Number	83700360	
Standing County and Company of the County of	Contraction	

## 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 OF REDUCING ENGINE NOX EMISSIONS				
This declaration is directed to:					
[ United	ached application, or States application or PCT international application numberfiled on, (I hereby authorize the insertion of the application filing date and en they become known.)				
The above-identified app	lication was made or authorized to be made by me.				
I hereby state that I havingleding 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 hal or PCT international filing date of the continuation-in-part application.				
PORD GLOBAL TECHT of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its st for the inventions and di name or names, or in my insert the serial/applicat 15/233,329 ASSIGNEE, its success applications, in and to th including all application reexaminations and reissi					
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.					
	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine note than five (5) years or both.				
LEGAL NAME OF INV	ENTOR AND IN TO				
Inventor: Paspuleti	Ashish Kumar Naidu Date: US/AVY 12/6				
Signature: 44					
Note: An Application Date	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.				

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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)

# 3180: OF \$182/E3128088	METHOD OF REDUCING ENGINE NOX EMIS	351UN3				
This declaration is directed to:						
United	ached application, or States application or PCT international application number flied on (I hereby authorize the inserticenthy become known.)	m of the application tiling date and				
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 opplication.				
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed inventi	on in the application.				
continuation-in-part appl	disclose information which is material to patentability as defi fications, material information which became available bet ad or PCT international filing date of the continuation-in-part a	ween the fling date of the prior				
FORD GLOBAL TECHS of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and dis name or names, or in my insert the serial/applicat 15/233,329 ASSIGNEE, its success applications in and to the	ient agreement heretofone made or by contractual obligation, vOLOGIES, LLC, a Ford Motor Company subsidiary, organize, having its principal place of business at Dearhorn, County the ASSIGNEE, its successors, assigns or other legal repreceign, in and to the inventions and discoveries in the above-ide occessors, assigns or other legal representatives to make applicationeries in any and all countries, entities and intergovernment name, at its or their election (and I hereby authorize the ASS ion number and filing date of the application to receive	ed and existing by virtue of the lows of Wayne, and State of Michigan, sentatives, the entire right, title and entified invention including the right eations and to receive Letters Patental organizations, in its or their own IGNEE or ASSIGNEE's attorney to Letters Patent beceive Scriel Noteby sell, assign and act over to the priority, including any provisional and intergovernousial organizations.				
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 recessary to secure thereto the rights herein sold, assigned and set over.						
And Hiereby 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 time or imprisonment of not more than five (5) years or both.						
LEGAL NAME OF INVI	NTOR	24-Aug - 2016				
Inventor: <u>lan Halle</u>	1916 Date:					
Signature:						
Note: An Apprication Data	Sheet (PTC/8B/14 or equivalent), including naming the entire investorm for each additional inventor.	ntive entity, must accompany this form.				

Attorney Docket Number	1.027/(0220	
PRINCIPLE LANGER OF THEIR PROCE	1 03700300	

## 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 OF REDUCING ENGINE NOX EMISSIONS
This declaration is direct	ed to:
☐ United	tached application, or  States application or PCT international application number  filed on
The above-identified app	dication 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.
continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for disclose, 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 TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its stor the inventions and diname or names, or in my insert the serial/applica 15/233,329  ASSIGNEE, its success 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	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 treign, 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 iscoveries in any and all countries, entities and intergovernmental organizations, in its or their own y 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 August 10, 2016 ——), and I hereby sell, assign and set over to the sors, 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 applications.  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 rform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not r	har 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 INV	/ENTOR
Inventor Potes Gu	orga Bristle Date: 17 Agril 2016.
Signature: Last	
	a Sheet (FTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form on form for each additional inventor.

**RECORDED: 09/13/2016** 

Atto	rney	Docket Nu	mber	83700360		

## 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 OF REDUCING ENGINE NOX EMISSIONS
This declaration is directed to:	
1 ms declaration is directed to:	
X The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and number into this form when they become known.)	
The above-identified application 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 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.	
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.  15/233,329, Filing Date, Filing Date	
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 INV. Inventor: James W	
Signature: Junes Wright.	
Note: An Application Data Sheet (PTO/SB/14 of equivalent), including naming the entire inventive entity, must accompany this form.	
Use an additional declaration form for each additional inventor.	