505657601 09/05/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5704406

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN PAUL BOGEMA	08/13/2019
JOSEPH GOODE	08/20/2019
KIRK ANDREW PARRISH	07/19/2019
PETER MITCHELL LYON	08/13/2019
SANKET ANIL GUJARATHI	07/29/2019
WILLIAM CLIFFORD BROWN	07/22/2019

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:	16562351

CORRESPONDENCE DATA

Fax Number: (971)271-8021

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: 971-271-8020
Email: Tapia@mccrus.com
Correspondent Name: MCCOY RUSSELL LLP

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

ATTORNEY DOCKET NUMBER:	84162389
NAME OF SUBMITTER:	ASHLEY R. TAPIA
SIGNATURE:	/Ashley R. Tapia/
DATE SIGNED:	09/05/2019

PATENT REEL: 050287 FRAME: 0497

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Attorney Docket Number	84162389

little of Invention	METHODS AND SYSTEMS FOR REGENERATION OF AN EXHAUST	
	AFTERTREATMENT DEVICE	
This declaration is directed	ed to:	
	ached application, or States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and en they become known.)	
The above-identified ann	lication was made or authorized to be made by me.	
in wood in the state of the sta	it was the first of the state o	
I hereby state that I hav 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 TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and di- name or names, or in my insert the serial/applicat  16/562,351  ASSIGNEE, its success applications, in and to th including all application reexaminations and reissi  And I hereby agree for a including applications for	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	
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.	
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		
Inventor: John Paul	Bogema Date: 0/13/17	
Signature:	77	
And the state of t	// 4	
	i Sheet (PTO/SB/J4 or equivalent), including naming the entire inventive entity, must accompany this form.  In form for each additional inventor.	

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Attorney Docket Number	84162389

Title of Invention	METHODS AND SYSTEMS FOR REGENERATION OF AN EXHAUST	
Miller Helde Market Market Andrew Construction of the Construction	AFTERTREATMENT DEVICE	
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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  16/562,351  ASSIGNEE, its success applications, in and to the including all application reexaminations and reisst	••	
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 ar	nd warrant that I have not granted any rights inconsistent with the rights granted herein.	
or imprisonment of not m	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 INV	ENTOR 2010	
Inventor: Joseph Go	Date: 20 Aug 2019	
Signature:	Tell Same	
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.	

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Attorney Docket Number	84162389		

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FORD GLOBAL TECHN 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 16/562,351 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, 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 eign, in and to the inventions and discoveries in the above-identified invention including the right eccessors, assigns or other legal representatives to make applications and to receive Letters Patent ecoveries 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.
including applications for organizations, and to per-	nyself, 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 scure 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.
or imprisonment of not m	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	ENTOR w//Q//C
Inventor: Kirk Andr	ew Parrish Date: #////
Signature: 12—	
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	84162389

Title of Invention	METHODS AND SYSTEMS FOR REGENERATION OF AN EXHAUST	
	AFTERTREATMENT DEVICE	
This declaration is direct	ed to:	
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Materials .	tached application, or States application or PCT international application number	
LLI OHIO	filed on (I hereby authorize the insertion of the application filing date and	
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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.		
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.		
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its store the inventions and diname or names, or in my insert the serial/applica 16/562,351  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	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 as, 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 aname, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date 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	ENTOR Hy 17 200	
Inventor: Peter Mit	cheff Lyon Date: 100 13, 2017	
Signature:		
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  on form for each additional inventor.	

Attorney Docket Number	84162389

Title of Invention	METHODS AND SYSTEMS FOR REGENERATION OF AN EXHAUST	
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The above-identified application was made or authorized to be made by me.		
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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 filing date of the application to receive Letters Patent herein: Serial No. 16/562,351, Filing Date September 5, 2019, 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.		
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LEGAL NAME OF INV		
Inventor: Sanket Anil Gujarathi Date: 07/21/20/9		
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.		

Please direct all correspondence to: 36865

**RECORDED: 09/05/2019** 

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Attorney Docket Number	84162389

### 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	METHODS AND SYSTEMS FOR REGENERATION OF AN EXHAUST
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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 a	nd 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 fore than five (5) years or both.
LEGAL NAME OF INV	ENTOR / ,
Inventor: William C	Hifford Brown Date: July, 22, 2019
Signature:	LAMON GAZ
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.