PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4381913

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS ALAN BREWBAKER	04/18/2017
CHRISTIAN WINGE VIGILD	04/18/2017
DANIEL ROETTGER	04/18/2017
MICHIEL J. VAN NIEUWSTADT	04/18/2017

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:	15495403

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 600 Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	83796949
NAME OF SUBMITTER:	ASHLEY R. TAPIA
SIGNATURE:	/Ashley R. Tapia/
DATE SIGNED:	04/24/2017

Total Attachments: 4

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PATENT REEL: 042323 FRAME: 0148

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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	DEVICE AND METHOD FOR PREDICTING THE EXHAUST GAS RECIRCULATION RATE
This declaration is direct	
United	tached application, or I States application or PCT international application numberfiled on(I hereby authorize the insertion of the application filing date and
number into this form wh	nen they become known.)
The above-identified app	offication 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 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.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its so for the inventions and di name or names, or in my insert the serial/applica 15/495,403 Application No. 102016 April 29, 2016), and I representatives, all rights and all countries, entitie hereof, continuations, co And I hereby agree for including applications for organizations, and to pe	ment 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 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 reign, in and to the inventions and discoveries in the above-identified invention including the right uccessors, 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 or name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ton number and filling date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————
And I hereby represent a	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not r	nat 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	
Inventor: <u>Thomas</u>	Alan Brewbaker Date: 18-Apr 2017
Signature:	<u> 62. Zi. Listo II. Zi.</u>
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form on form for each additional inventor.

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This declaration is directed to:

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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 comractual 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, emitties and intergovernmental organizations, in its or their own name, or on my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to fissert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 15/495,403. Filing Date April 24, 2017. which claims priority to German Patent Application No. 102016207358.3, filed on April 29, 2016, and to German Patent Application No. 102016207360.5, filed on April 29, 2016), and I hereby self, 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 hencift 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 AS
And I hereby represent and warrant that I have not gramed 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 first or imprisonment of not more than five (5) years or both.
LEGAL NAME OF INVENTOR
Inventor: Christian Winge Vigild Date: 78, APR, 2017
Signature: <u>Class Colfres on Virgill</u>
Note: An Application Data Sheet (PTO/SB/14 or equivalent), meluding naming the entire inventive entity, must accompany this form.
Lise an additional declaration form for each aguinonal inventor

Please direct all correspondence to customer number: 36865

	R3706049	
Attorney Docket		

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continuation-in-part app	or disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for elications, 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 fo of the ASSIGNEE, its stor the inventions and diname or names, or in my insert the serial/applica 15/495,403 Application No. 102016; April 29, 2016), and I representatives, all rights and all countries, entities hereof, continuations, co And I hereby agree for including applications for organizations, and to per	ment 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 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 oreign, 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 rame, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ation number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date April 24, 2017, which claims priority to German Patent 207358.3, filed on April 29, 2016, and to German Patent Application No. 102016207360.5, filed on I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal of priority, including any provisional applications, in and to the inventions and discoveries in any and intergovernmental organizations including all applications claiming benefit of the filing date intinuations-in-part, divisionals, reexaminations and reissue applications. Mayelf, 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 accure 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 the	nat 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	ENTOR
Inventor: Daniel I	A = A + A + A + A + A + A + A + A + A +
Signature:	0.245
	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	83796949

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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: Michiel J	ENTOR (Van Nieuwstad) Date: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Signature: Vaciners	A A A A A A A A A A A A A A A A A A A
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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.	

PATENT REEL: 042323 FRAME: 0153

RECORDED: 04/24/2017