### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3064688

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GOPICHANDRA SURNILLA	01/03/2013
RICHARD E. SOLTIS	12/11/2012
TIMOTHY SCHRAM	01/15/2013
TIMOTHY JOSEPH CLARK	12/11/2012
EVANGELOS SKOURES	12/11/2012

#### 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:	14513942

#### **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.

Phone: 503-459-4141 Email: fulton@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:	83468828
NAME OF SUBMITTER:	MAXFIELD FULTON
SIGNATURE:	/Maxfield Fulton/
DATE SIGNED:	10/14/2014

**Total Attachments: 5** 

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<del>PATENT</del>

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Attorney Docket Number	83256663
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Title of Invention	METHODS AND SYSTEMS FOR HUMIDITY DETECTION VIA AN EXHAUST GAS SENSOR	
This declaration is direct	ed to:	
United	tached application, or  States application or PCT international application number filed 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 ori	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. 13/745,639 , Filing Date January 18, 2013 ), 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 represent and 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	ENTOR	
	dra Surnilla Date: 0//23/20/3	
Signature:		
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.	

	02256653
Attorney Docket Number	83230003

Title of Invention	METHODS AND SYSTEMS FOR HUMIDITY DETECTION VIA AN EXHAUST GAS SENSOR
This declaration is direc	ted to:
Unite	ttached application, or d States application or PCT international application number filed on
The above-identified ap	plication was made or authorized to be made by me.
I hereby state that I ha including the claims.	we reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for plications, material information which became available between the filing date of the prior onal 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. 13/745,639 , Filing Date January 18, 2013 ), 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.  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	
a sense a company of the company of	secure thereto the rights herein sold, assigned and set over.  and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not	hat 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 IN Inventor: Richard	4 B
	Carel & Sceta
Signature.	
	sta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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1	Attorney Docket Number	03%36663
1		

Title of Invention	METHODS AND SYSTEMS FOR HUMIDITY DETECTION VIA AN EXHAUST GAS SENSOR	
This declaration is directed to:		
573		
	tached application, or I States application or PCT international application number	
	filed on	
The above-identified app	olication was made or authorized to be made by me.	
I hereby state that I have including the claims.	ve 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.		
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	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 nore than five (5) years or both.	
LEGAL NAME OF INV Inventor: Timothy		
Signature:	other 19 de krever	
	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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Attorney Docket Number	83256663

Title of Invention	METHODS AND SYSTEMS FOR HUMIDITY DETECTION VIA AN EXHAUST GAS SENSOR
This declaration is direct	ed to:
☐ United	tached application, or  States application or PCT international application number filed on
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 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 story the inventions and diname or names, or in my insert the serial/applications and to the 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 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 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 mame, 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.  ———————————————————————————————————
including applications for organizations, and to pe	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 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 more than five (5) years or both.
LEGAL NAME OF INV	
· -	Joseph Clark Date: 12/1/2012
Signature: TW	ut j. Uve
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.

**RECORDED: 10/14/2014** 

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Attorney Docket Number	83256663	

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

Title of Invention		The second of th	AND SYST GAS SENSOI		HUMIDITY	Y DE	TECTION	VIA AN
This declaration is	s direct			<u></u>				
	United	ttached application, or  I States application or PCT international application numberfiled on						
The above-identif	ied app	lication was mad	e or authorized to	be made by me	i.			
I hereby state that including the claim	a I hav ns.	e reviewed and	understand the co	ontents of the s	pecification in	the abo	ove-identified	application,
I believe that I am	the ori	ginal inventor or	an original joint it	nventor of a cla	imed invention	in the a	pplication.	
continuation-in-pa	irt app	lications, materi	ation which is mat al information wl ational filing date	hich became a	ivailable between	een the	filing date of	ncluding for of the prior
FORD GLOBAL of the State of D hereinafter referred interest, domestic of the ASSIGNER for the inventions name or names, or insert the serial/a13/745,639 ASSIGNEE, its applications, in an	TECHI elaware ed to as and for and di r in my applicat success ad to the filication	NOLOGIES, LLG	neretofore made of C, a Ford Motor Cacipal place of bus E, its successors, a he inventions and a sor other legal repand all countries, a heir election (and filing date of the January 18 other legal reprodiscoveries in any efft of the filing	ompany subsidi- siness at Dearb issigns or other discoveries in to cresentatives to entities and inte I hereby author the application 8, 2013 esentatives, all	iary, organized from, County or legal represent the above-ident make applicate governmental rize the ASSIG to receive L., and I herebrights of prifes, entities and	and exist wayned that ives, iffied invitions and lorganized in the control of the	sting by virtue e, and State o the entire rig vention included to receive Le zations, in its o ASSIGNEE's Patent herein: assign and set neluding any	e of the laws if Michigan, the title and ing the right etters Patent or their own s attorney to Serial No. over to the provisional rganizations
including applicat organizations, and	ions fo I to per	r Letters Patent of form any and all	successors, assign of any and all kin acts which the Al rights herein sold,	ds and in any a SSIGNEE, its s	and all countriesuccessors, assi	es, entiti	ies and intergo	overnmental
And I hereby repr	esent ar	nd warrant that I	have not granted a	ny rights incons	sistent with the	rights g	ranted herein.	
or imprisonment c	af not m	nore than five (5)	se statement made years or both.	in this declara	tion is punisha	ble unde	er 18 U.S.C. 1	001 by fine
LEGAL NAME C Inventor: Ev		ENTOR s Skoures			Date:	12	111112	
Signature:	Z Zech	ry la	Dkowe	22_	Date:		<i>H-1/</i>	
Note: An Applicati Use an additional de	on Data	Sheet (PTO/SB/I n form for each add	4 or equivalent), inc	luding naming th	ne entire inventi	ve entity,	, must accompa	ny this form.