#### 503612308 12/15/2015

### PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
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GOPICHANDRA SURNILLA	04/02/2014
JAMES ERIC ANDERSON	03/31/2014

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

Property Type	Number
Application Number:	14969590

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NAME OF SUBMITTER:	JIBEK ENABNIT
SIGNATURE:	/Jibek Enabnit/
DATE SIGNED:	12/15/2015

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

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PATENT 503612308 REEL: 037294 FRAME: 0810

Attorney Docket Number	83426047		
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## 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	METHODS AND SYSTEMS FOR DETERMINING A FUEL CONCENTRATION IN ENGINE OIL USING AN INTAKE OXYGEN SENSOR
This declaration is dir	ected to:
⊠ The □ Uni	e attached application, or ted States application or PCT international application number filed on filed on
The above-identified a	application was made or authorized to be made by me.
I hereby state that I I including the claims.	have reviewed and understand the contents of the specification in the above-identified application
	original inventor or an original joint inventor of a claimed invention in the application.
application and the nat	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for pplications, material information which became available between the filing date of the prior ional or PCT international filing date of the continuation-in-part application.
of the State of Delawa hereinafter referred to interest, domestic and to of the ASSIGNEE, its for the inventions and on name or names, or in m insert the serial/applic 14/252,679 ASSIGNEE, its succe applications, in and to to including all application reexaminations and reis	
organizations, and to pe may deem necessary to	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental erform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives 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.
I hereby acknowledge the imprisonment of not a LEGAL NAME OF INV	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.
	$3/\alpha / \sigma$ . The
Signature:	Aglera
lote: An Application Data  Jse an additional declaration	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

PATENT REEL: 037294 FRAME: 0811

Posterior Commence		
Attorney Docket Number	83426047	 
THOMES BOOKET THEIROUT	03420047	 

# 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)

Titl	e of Invent	ion	METHODS AND SYSTEMS FOR DETERMINING A FUEL CONCENTRATIO IN ENGINE OIL USING AN INTAKE OXYGEN SENSOR
This	declaration	is direct	ed to:
		United	tached application, or I States application or PCT international application number filed on,
The	above-identi		dication was made or authorized to be made by me.
I her inclu	reby state the	at i hav ms.	re reviewed and understand the contents of the specification in the above-identified application
I bel	ieve that I an	n the ori	ginal inventor or an original joint inventor of a claimed invention in the application.
CORG	maamon-m-p	asi aups	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including the discations, material information which became available between the filing date of the primal or PCT international filing date of the continuation-in-part application.
of the hereis interest of the for the name insert 14/ASSI application applications.	e State of D nafter referred est, domestic e ASSIGNEI de inventions or names, of the serial/i 252,679 GNEE, its cations, in and ling all app	relaware, ed to as and fon E, its suc and discretion in my applications are the lications	nent agreement heretofore made or by contractual obligation, I do sell, assign and set over un NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law in the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title areign, in and to the inventions and discoveries in the above-identified invention including the rig coessors, assigns or other legal representatives to make applications and to receive Letters Pater coveries 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 in number and filing date of the application to receive Letters Patent herein: Serial No, Filing Date April 14, 2014 ), and I hereby sell, assign and set over to the ors, assigns or other legal representatives, all rights of priority, including any provisions inventions and discoveries in any and all countries, entities and intergovernmental organizations claiming benefit of the filing date hereof, continuations, continuations-in-part, divisional emplications.
organ	ing applications, and	to perfe	ryself, 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 intergovernments form any and all acts which the ASSIGNEE, its successors, assigns or other legal representative cure thereto the rights herein sold, assigned and set over.
And 1	hereby repre	esent and	d warrant that I have not granted any rights inconsistent with the rights granted herein.
or mit	a isomment o	i noi mo	t any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fin- ore than five (5) years or both.
LEGA Invent	L NAME O or: Go		NTOR ra Sumilla Date: 4/2/20/4
Signat	ure:		
Note: Use an	An Application and decorate and application application and application application application application and application ap	n Data S laration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form form for each additional inventor.

PATENT REEL: 037294 FRAME: 0812

**RECORDED: 12/15/2015** 

Attorney Docket Number	\$2.80a0a0
-: MRRBOY DUCKCENBBRCS	1.03%30097

### 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	n	METHODS AND SYSTEMS FOR DETERMINING A FUEL CONCENTRATION IN ENGINE OIL USING AN INTAKE OXYGEN SENSOR	
This declaration is	direct	ed to:	
	United	tached application, or I States application or PCT international application number filed on	
The above-identifi	ed app	olication was made or authorized to be made by me.	
I hereby state that including the clain		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.			
FORD GLOBAL of the State of Dehereinafter referred interest, domestic of the ASSIGNES for the inventions name or names, or insert the serial/of 14/252,679. ASSIGNEE, its applications, in an including all apprecaminations and And I hereby ago including applications, and organizations, and	TECH clawar d to a and for a and direct in mapping a success id to the lication d reiss for ions fil to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental arform 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 acknowle	edge ti	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 C			
Inventor:	nes.Er	<u>1e Anderson</u> Date: 2/33/2/3/7	
Signature:	Tame (	Light C. Marine	
		ta Sheet (PTO/SB/)4 or equivalent), including naming the entire inventive entity, must accompany this form.	

PATENT REEL: 037294 FRAME: 0813