502580107 11/22/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2626124

SUBMISSION TYPE: NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MOHAMMAD ALI MOETAKEF	11/01/2013
JAMES MATTHEW KINDREE	11/01/2013
MATHEW LEONARD HINTZEN	11/01/2013
ANTONY GEORGE SCHEPAK	11/01/2013

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:	14087820	

CORRESPONDENCE DATA

 Fax Number:
 (503)459-4142

 Phone:
 503-459-4141

 Email:
 fulton@ahmrt.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

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:	83399758
NAME OF SUBMITTER:	MAXFIELD FULTON

PATENT REEL: 031661 FRAME: 0345 410 00 14087

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Signature:	/Maxfield Fulton/
Date:	11/22/2013
Total Attachments: 4 source=Executed Assignment 83399758#page1.tif source=Executed Assignment 83399758#page2.tif source=Executed Assignment 83399758#page3.tif source=Executed Assignment 83399758#page4.tif	

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3	4	No. 2	CONTRACTOR	
3	ATTACHOU	Docket Number	83399758	
3	THURST Y	Cochec Limitate	(C) (C) (C) (C) (C) (C)	

Title of Invention	ENGINE KNOCK SIGNAL TRANSMISSIVE ELEMENT
This declaration is dire	cted to:
	attached application, or ed States application number filed on
The above-identified a	pplication was made or authorized to be made by me.
I hereby state that I h including the claims.	ave reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part a	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for opplications, material information which became available between the filing date of the prior ional or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TEC of the State of Delawin hereinafter referred to interest, domestic and of the ASSIGNEE, its for the inventions and name or names, or in a insert the serial/applications, its succeapplications, in and to	yment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, 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 foreign, in and to the inventions and discoveries in the above-identified invention including the right successors, assigns or other legal representatives to make applications and to receive Letters Patent discoveries in any and all countries, entities and intergovernmental organizations, in its or their own my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to cation number and filing date of the application to receive Letters Patent herein: Serial No.
including applications organizations, and to p	or 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 perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives a 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 no	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine t more than five (5) years or both.
LEGAL NAME OF IN Inventor: Mohan	IVENTOR <u>mad Ali Moetakef</u> Date:/_/ / 2_0/3
Signature:	
	Pata Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form,

Attorney Docket Number	83399758

Title of Inventi	ion	ENGINE KNOCK SIGNAL TRANSMISSIVE ELEMENT	
This declaration i	s direc	ted to:	
		ttached application, or d States application or PCT international application number filed on	
The above-identi	fied app	plication was made or authorized to be made by me.	
I hereby state the including the claim		ve reviewed and understand the contents of the specification in the above-identified application,	
I believe that I an	n the or	riginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-p	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 use FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the last 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 a 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 Pate for the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their or name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney insert the serial/application number and filling date of the application to receive Letters Patent herein: Serial \$\frac{14}{087}\$, \$20\$, Filing Date \$\frac{November 22}{2013}\$, and I hereby sell, assign and set over to \$\frac{14}{087}\$, \$20\$, its successors, assigns or other legal representatives, all rights of priority, including any provision applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organization including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisions reexaminations and reissue applications. And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all paper including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernment.			
may deem necess	ary to	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.	
		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	VENTOR II	
Į.		latthew Kindree Date: NOV MANA 2 2013	
Signature: 🗘	Qw./	r M. Kindrel	
Lance de la Constitución de la C	41 - 5 YN	COLUMN (STOTOCOUSTIS A COLUMN	
		ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. ion form for each additional inventor.	

Attorney Docket Number	83399758	

Title of Invention ENGINE KNOCK SIGNAL TRANSMISSIVE ELEMENT
This declaration is directed to:
The attached application, or United States application or PCT international application number filed on
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. 14/087,820 , Filing Date November 22, 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.
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 INVENTOR // //) O D
Inventor: Mathew Leonard Hintzen Date: /// / S O O
Signature: Ulat L. Hinte
N. N. A. A. C. A. D. C. A. ODDOGO HA A. A. A. D. C. D. D. C. D. D. C. D. C. D.
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.

Attorney Docket Number	Taka a a a a a a a a	
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Title of Invent	ion ENGINE KNOCK SIGNAL TRANSMISSIVE ELEMENT	
This declaration is directed to:		
	The attached application, or United States application or PCT international application number filed on	
The above-identi	fied application was made or authorized to be made by me.	
I hereby state the including the cla	at I have reviewed and understand the contents of the specification in the above-identified application, ims.	
I believe that I as	n the original inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-p	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for part applications, material information which became available between the filing date of the prior he national or PCT international filing date of the continuation-in-part application.	
FORD GLOBAL of the State of I hereinafter refer interest, domestion of the ASSIGNE for the invention name or names, insert the serial 14/087,820 ASSIGNEE, its applications, in a including all apprexaminations a	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto a TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws belaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, red to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and and foreign, in and to the inventions and discoveries in the above-identified invention including the right is successors, assigns or other legal representatives to make applications and to receive Letters Patent is and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to prophet in a successor, assigns or other legal representatives, all rights of priority, including any provisional and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations plications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, and reissue applications. The prophet is a prophet in the filing date hereof, continuations, continuations-in-part, divisionals, and reissue applications.	
	ed to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives sary to secure thereto the rights herein sold, assigned and set over.	
And I hereby rep	resent and warrant that I have not granted any rights inconsistent with the rights granted herein.	
or imprisonment	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years or both.	
LEGAL NAME Inventor: A	OF INVENTOR Intony George Schepak I Date: 11/2/2013	
Signature:	and the same of th	
Note: An Applica	ation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.	
	eclaration form for each additional inventor	

PATENT REEL: 031661 FRAME: 0350

RECORDED: 11/22/2013