

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>PANKAJ KUMAR</td> <td>01/09/2014</td> </tr> <tr> <td>IMAD HASSAN MAKKI</td> <td>01/09/2014</td> </tr> </tbody> </table>		Name	Execution Date	PANKAJ KUMAR	01/09/2014	IMAD HASSAN MAKKI	01/09/2014						
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>FORD GLOBAL TECHNOLOGIES, LLC</td> </tr> <tr> <td>Street Address:</td> <td>FAIRLANE PLAZA SOUTH, SUITE 800</td> </tr> <tr> <td>Internal Address:</td> <td>330 TOWN CENTER DRIVE</td> </tr> <tr> <td>City:</td> <td>DEARBORN</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48126</td> </tr> </table>		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
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CORRESPONDENCE DATA													
<p>Fax Number: (503)459-4142</p> <p>Phone: 503-459-4141</p> <p>Email: enabnit@ahmrt.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: ALLEMAN HALL MCCOY RUSSELL & TUTTLE, LLP</p> <p>Address Line 1: 806 S.W. BROADWAY, SUITE 600</p> <p>Address Line 4: PORTLAND, OREGON 97205</p>													
ATTORNEY DOCKET NUMBER:	83413678												
NAME OF SUBMITTER:	JIBEK ENABNIT												
Signature:	/Jibek Enabnit/												
Date:	01/17/2014												
<p>Total Attachments: 2</p> <p>source=Executed Assignment 83413678#page1.tif</p> <p>source=Executed Assignment 83413678#page2.tif</p>													

Please direct all correspondence to customer number: 36865

Attorney Docket Number 83413678

**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

**ONE DIMENSIONAL THREE WAY CATALYST MODEL
FOR CONTROL AND DIAGNOSTICS**

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. 14/158,443, Filing Date January 17, 2014), 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

Inventor: Pankaj Kumar

Date: 1/2/14

Signature: Pankaj Kumar

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.

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LEGAL NAME OF INVENTOR

Inventor: Imad Hassan Makki

Date: 1/9/2014

Signature: Imad Makki

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

RECORDED: 01/17/2014

REEL: 031999 FRAME: 0314