PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3374727

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AJAY KUMAR GUPTA	08/14/2013
NARAYANA VENUGOPAL	08/14/2013
JOHN CHARLES CARIS	08/14/2013
MARK WLOTKOWSKI	08/14/2013
CHARLES KO	08/14/2013
LEONARD ANTHONY SHANER	08/14/2013

RECEIVING PARTY DATA

Name:	FORD GLOBAL TECHNOLOGIES, LLC
Street Address:	330 TOWN CENTER DRIVE
Internal Address:	SUITE 800
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14725735

CORRESPONDENCE DATA

Fax Number:

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: 313-528-4882 Email: docket@bvbip.com

Correspondent Name: BEJIN BIENEMAN PLC/FORD GLOBAL

Address Line 1: 300 RIVER PLACE ROAD

Address Line 2: SUITE 1650

Address Line 4: DETROIT, MICHIGAN 48126

ATTORNEY DOCKET NUMBER:	83542294(65080-1653)
NAME OF SUBMITTER:	CHRISTOPHER FRANCIS
SIGNATURE:	/Christopher Francis/
DATE SIGNED:	05/29/2015

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

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AUGUST 15, 2013

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BEJIN, VANOPHEM & BIENEMAN PLC FORD GLOB 300 RIVER PLACE SUITE 1650 DETROIT, MI 48207 502458220

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/14/2013 REEL/FRAME: 031009/0285

NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 83375453

ASSIGNOR:

GUPTA, AJAY KUMAR DOC DATE: 08/14/2013

ASSIGNOR:

VENUGOPAL, NARAYANA DOC DATE: 08/14/2013

ASSIGNOR:

CARIS, JOHN CHARLES DOC DATE: 08/14/2013

ASSIGNOR:

WLOTKOWSKI, MARK DOC DATE: 08/14/2013

ASSIGNOR:

KO, CHARLES DOC DATE: 08/14/2013

ASSIGNOR:

SHANER, LEONARD ANTHONY DOC DATE: 08/14/2013

 ASSIGNEE:

FORD GLOBAL TECHNOLOGIES, LLC SUITE 800, 330 TOWN CENTER DRIVE DEARBORN, MICHIGAN 48126

APPLICATION NUMBER: 13966790

PATENT NUMBER:

TITLE: VEHICLE FRAME COMPONENT

FILING DATE: ISSUE DATE:

ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

Please direct all correspondence to:

Use an additional declaration form for each additional inventor.

Bejin VanOphem & Bieneman PLC 300 River Place, Suite 1650 Detroit, MI 48207

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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 VEHICLE FRAME COMPONENT 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. 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 beirs, 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 Date: Inventor: Ajay Kumar Gupta Signature: Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to:

Use an additional declaration from for each additional inventor.

Bejin VanOphem & Bieneman PLC 300 River Place, Suite 1650 Detroit, MI 48207

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Attorney Docket Number	C 8533739833
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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 VEHICLE FRAME COMPONENT 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. 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 faise 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: Narayana Venugopal Signature: Note: An Application Data Sheet (PTOTS9/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to:

Use an additional declaration form for each additional inventor.

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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 VEHICLE FRAME COMPONENT 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. 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 Date: 8-14-2013 Inventor: John Charles Caris Signature: Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entiry, must accompany this form.

Please direct all correspondence to:

Use an additional declaration form for each additional inventor.

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Attorney Docket Number		

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 VEHICLE FRAME COMPONENT 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 seli, 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. 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 Date: Aug. 14, 2013 inventor: Mark Włotkowski Signature: Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to:

Use an additional declaration form for each additional inventor.

Bejin VanOphem & Bieneman PLC 300 River Place, Suite 1650 Detroit, MI 48207

Attorney Docket Number 83375453	}	

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 Invent	i(933	VEHICLE FRAME COMPONENT	
This declaration	is direct	.i. ted to;	
B	United	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 th including the cla		ve reviewed and understand the contents of the specification in the above-identified application	tion,
I believe that I ar	n the or	riginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-p	oart app	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including plications, material information which became available between the filing date of the ponal or PCT international filing date of the continuation-in-part application.	≩ for prior
FORD GLOBAL of the State of I hereinafter refer interest, domesti- of the ASSIGNE for the invention name or names, insert the serial ASSIGNEE, its applications, in a	TECH. Delawar red to a c and for EE, its s and do or in male application of the properties of the pro	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over a fNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the lare, having its principal place of business at Dearborn, County of Wayne, and State of Michi as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title oreign, in and to the inventions and discoveries in the above-identified invention including the resourcessors, assigns or other legal representatives to make applications and to receive Letters Paliscoveries in any and all countries, entities and intergovernmental organizations, in its or their y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorned ation number and filing date of the application to receive Letters Patent herein: Serial filing Date	laws igan, and right atent own ey to No. the ional tions
including applic	ations f nd to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all parties. For Letters Patent of any and all kinds and in any and all countries, entities and intergovernment of any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives thereto the rights herein sold, assigned and set over.	ental
And I hereby rep	resent :	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 more than five (5) years or both.	fine
LEGAL NAME			
Signature:	harks \$24	4404	
Note: An Applica	ation Da	na Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this I	form.

Please direct all correspondence to:

Bejin VanOphem & Bieneman PLC 300 River Place, Suite 1650 Detroit, MI 48207

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	Attorney Docket Number	83375453	
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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	VEHICLE FRAME COMPONENT
This declaration is directed to:	
☐ The attached application, or ☐ United States application or PCT international application numberfiled 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.P.R. L56, 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.	
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: Leonate Anthony Shaner Date: Signature: 22242 224 224 224 224 224 224 224 224	
Note: An Application	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

PATENT REEL: 035746 FRAME: 0099

RECORDED: 05/29/2015

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