PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3856404

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHANE ELWART	05/03/2016
JOSEPH WALTER NEAL	05/03/2016
BRETT STEPHENS	05/03/2016

RECEIVING PARTY DATA

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Street Address:	300 TOWN CENTER DRIVE, SUITE 800
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15145103

CORRESPONDENCE DATA

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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.

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Address Line 4: DETROIT, MICHIGAN 48207

ATTORNEY DOCKET NUMBER:	83652234(65080-1912)
NAME OF SUBMITTER:	PETER E. KEROS
SIGNATURE:	/PETER E. KEROS/
DATE SIGNED:	05/03/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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

Title of Invention	ENHANCED VEHICLE OPERATION								
This declaration is dire	ected to:								
	attached application, or ted States application or PCT international application number filed on								
The above-identified a	application was made or authorized to be made by me.								
I hereby state that I including the claims.	have reviewed and understand the contents of the specification in the above-identified application,								
I believe that I am the	original inventor or an original joint inventor of a claimed invention in the application.								
continuation-in-part	y to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for applications, material information which became available between the filing date of the prior tional or PCT international filing date of the continuation-in-part application.								
FORD GLOBAL TEC of the State of Delaw hereinafter referred to interest, domestic and of the ASSIGNEE, it for the inventions and name or names, or in insert the serial/appl ASSIGNEE, its successions, in and to	Syment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto CHNOLOGIES, L.I.C, 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 ication number and filing date of the application to receive Letters Patent herein: Serial No, Filing Date								
including application organizations, and to	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 represer	it and warrant that I have not granted any rights inconsistent with the rights granted herein.								
or imprisonment of n	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of more than five (5) years or both.								
LEGAL NAME OF I	N								
Inventor: Shane	Elwart Date: 3-May -20/4								
Signature:									
Note: An Application Use an additional declar	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. ation form for each additional inventor.								

PATENT REEL: 038445 FRAME: 0016 Attorney Dixket Number

VICE 22 (4) (5) (8) (1917)

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

Title of Invention	ENHANCED VEHICLE	EOPERATION
This declaration is dire	cled to:	
The Unit	attached application, or ed States application or PCT into	rnational application number iled on
The above identified a	pplication was made or authorize	d to be made by me.
I hereby state that I I including the claims.	ave reviewed and understand th	ie contents of the specification in the above-identified application.
Theheve that I am the	original inventor or an original jo	sint inventor of a claimed invention in the application.
overiencemina, in nart s	empleodores, material (MOCHIALIC)	s material to patentability as defined in $37\mathrm{CFR}$, 1.56 , including for m which became available between the filing date of the prior date of the continuation-in-part application.
FORD GLOBAL TER of the State of Detay becomafter referred to merest domestic and of the ASSIGNEE, it for the inventions and meric or names, or in meet the school/app.	HNOLOGIES, LLC a Ford Mostare having its principal place of as the ASSIGNEE, its success foreign, in and to the inventions successors, assigns or other leg I discoveries in any and all count my name, at its or their election lication number and filing date. Filing Date cassors, assigns or other legal of the inventions and discoveries in the inventions and discoveries in the section of the filing battery.	de or by contractual obligation, I do sell, assign and set over time for Company subsidiary, organized and existing by virtue of the laws of business at Dearborn, County of Wayne, and State of Michigan ors, assigns or other legal representances, the entire right, title and and discoveries in the above-identified invention including the right at representances to make applications and to receive Letters Patienties, emities and interpoversimental organizations, in its or their own (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to of the application to receive Letters Patient herein. Sensi No.
	is for Letters Patent of any and a	assigns or other legal representatives to execute any and all papers. It kinds and in any and all countries ensities and interpresentances the ASSIGNEE, its successors, assigns or other legal representances sold, assigned and set over.
And I hereby represe	at and warrans that I have not gra	med any rights inconsistent with the rights granted herein.
	are more than five (5) years or but	made in this declaration is punishable under 18 U.S.C. 1001 by (ine. $h_{\rm c}$
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Signature	//	
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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY, PROVISIONAL OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	ENHANCED VEHICLE OPERATION								
This declaration is direct	ed to;								
☐ United	tached application, or I States application or PCT international application number filed on								
The above-identified app	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 or	iginal inventor or an original joint inventor of a claimed invention in the application.								
continuation-in-part app	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 TECH of the State of Delawar bereinafter referred to a interest, domestic and fo of the ASSIGNEE, its stor the inventions and diname or names, or in my insert the serial/applica ASSIGNEE, its success applications, in and to it	ment 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 accessors, assigns or other legal representatives to make applications and to receive Letters Patent accessors, assigns or other legal representatives and intergovernmental organizations, in its or their own of name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to a tion number and filing date of the application to receive Letters Patent herein: Serial No. ———————————————————————————————————								
including applications 6 organizations, and to pe	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 a	nd warrant that I have not granted any rights inconsistent with the rights granted herein.								
or imprisonment of not r	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 INV Inventor: <u>Brett Ste</u>	TO COMPANY OF THE PROPERTY OF								
Signature:									
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 REEL: 038445 FRAME: 0018

RECORDED: 05/03/2016