503816229 05/06/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3862877

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	DATA				
		Name		Execution Date	
BRETT STEPHENS				04/18/2016	
JONATHAN THOMAS	MULLEN			04/28/2016	
SHANE ELWART				04/19/2016	
RECEIVING PARTY D	ΑΤΑ				
Name:	FORD G	LOBAL TECHNOLOGIES	, LLC		
Street Address:	330 TOV	IN CENTER DRIVE, SUIT	E 800		
City:	DEARBO	DRN			
State/Country:	MICHIG	AN			
Postal Code:	48126				
PROPERTY NUMBER	PS Totali 1				
Property Type		Number]		
Application Number:		5148879			
CORRESPONDENCE					
Fax Number:	(4	08)288-7542	if that is upsuces	ooful it will be cont	
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Fax Number: <i>Correspondence will</i> <i>using a fax number, i</i> Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 3 source=Assignment_Ex	(be sent to f provided; 4 u 2: 5 NUMBER: 1 5 NUMBER: 1 5 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1	the e-mail address first; if that is unsuccessful, i 08-288-7588 spto@stevenslawgroup.co TEVENS LAW GROUP 754 TECHNOLOGY DRIV AN JOSE, CALIFORNIA S 83653249 (FGTL-078 83653249 (FGTL-078 DAVID R. STEVENS /David R. Stevens/ 05/06/2016 This document serve	<i>t will be sent via</i> om E, SUITE 226 95110 800)	US Mail.	
Fax Number: Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: TTORNEY DOCKET I AME OF SUBMITTER IGNATURE: ATE SIGNED: otal Attachments: 3	(/ f provided; 4 2: S NUMBER: 2: NUMBER: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2: 2:	the e-mail address first; if that is unsuccessful, if 08-288-7588 spto@stevenslawgroup.co TEVENS LAW GROUP 754 TECHNOLOGY DRIV AN JOSE, CALIFORNIA S 83653249 (FGTL-078 0AVID R. STEVENS /David R. Stevens/ 05/06/2016 This document serve	<i>t will be sent via</i> om E, SUITE 226 95110 800)	US Mail.	

Attorney Docket Number 83653249 (FGTL-07800)

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 Inventi	ion Route Generation Using Road Lane Line Quality		
This declaration is	s directed to:		
	The attached application, or United States application or PCT international application number filed on		
The above-identif	fied application was made or authorized to be made by me.		
I hereby state the including the claim	at I have reviewed and understand the contents of the specification in the above-identified application, ms.		
I believe that I am	n the original inventor or an original joint inventor of a claimed invention in the application.		
continuation-in-pa	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for art applications, material information which became available between the filing date of the prior renational or PCT international filing date of the continuation-in-part application.		
FORD GLOBAL of the State of D hereinafter referm interest, domestic of the ASSIGNEI for the inventions name or names, o insert the serial/ 15/148,879 ASSIGNEE, its applications, in an including all app reexaminations ar	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto . TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws Delaware, 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 c and foreign, in and to the inventions and discoveries in the above-identified invention including the right E, its successors, assigns or other legal representatives to make applications and to receive Letters Patent s 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 /application number and filing date of the application to receive Letters Patent herein: Serial No. , Filing Date		
including applica organizations, and	ree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, itions for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental id 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 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 (
Signature:	State		
Note: An Applicat	tion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. leclaration form for each additional inventor.		

PATENT REEL: 038490 FRAME: 0364

Attorney Docket Number 83653249 (FGTL-07800)

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)

This declaration is directed to: Image: the state of the state and state state and state of the	Title of Inver	ntion Route Generation Using Road Lane Line Quality
United States application or PCT international application number filed on filed on filed on filed on filed on including the claims. believe that I have reviewed and understand the contents of the specification in the above-identified application including the claims. believe that I am the original inventor or an original joint inventor of a claimed invention in the application. 1 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 and the national or PCT international filing date of the continuation-in-part applications, in aterial information which became available between the filing spectra of Michigan bereinable referent to as the ASSIGNEE, its successors, assigns or other logal representatives, the entire right, the aneinater referent to as the ASSIGNEE is successors, assigns or other logal representatives the aSSIGNEE is auccessors, assigns or other logal representatives the ASSIGNEE is attern y attern the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their elegal representatives and intergovernmental applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their elegal representatives, the caling applications in and to receive Latters Patter 15/148,879 Filing Date 05/06/2016	This declaratio	n is directed to:
United States application or PCT international application number filed on filed on filed on filed on filed on including the claims. believe that I have reviewed and understand the contents of the specification in the above-identified application including the claims. believe that I am the original inventor or an original joint inventor of a claimed invention in the application. 1 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 and the national or PCT international filing date of the continuation-in-part applications, in aterial information which became available between the filing spectra of Michigan bereinable referent to as the ASSIGNEE, its successors, assigns or other logal representatives, the entire right, the aneinater referent to as the ASSIGNEE is successors, assigns or other logal representatives the aSSIGNEE is auccessors, assigns or other logal representatives the ASSIGNEE is attern y attern the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their elegal representatives and intergovernmental applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their elegal representatives, the caling applications in and to receive Latters Patter 15/148,879 Filing Date 05/06/2016	K 2	
The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. I hereby state that 1 have reviewed and understand the contents of the specification in the above-identified application including the claims. I believe that 1 am the original inventor or an original joint inventor of a claimed invention in the application. I am aware of the duty to disclove information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuution-in-part applications, material information schich became available between the filing date of the priot application and the national or PCT international filing date of the continuation-in-part application. Pursuant to my employment agreement heretoffive made or by contractual obligation, 1 do sell, assign and set over unte FORD GLOBAL TECHNOLOGIES, LLC, a Ford Motor Company subidiary, organized and existing by virtue of the law 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, tile and interest, domestic and forcign, in and to the inventions and discoveries in the application including the right of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent merest of the inventions and filter of the OSO62016	A A	
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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 application-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 unter 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. Courty of Wayne, and State of Michigan hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for 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, in its or their offection (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to 15/148,879	an an an an an an the state of the	
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. Physican date of PCT international filing date of the continuation-in-part application. Provide the law provide the prior 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 Thereby authorize the ASSIGNEE or ASSIGNEE's attorney to the serial/application number and filing date of the application to receive Letters Patent herein: Serial NO 05/06/2016), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, entities and intergovernmental organizations applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals reexaminations and to be inventions and discoveries in any and all countries, entities and intergovernmental organizations including applications. Assign and set over to the filing date thereof, continuations, continuations-in-part, divisionals reexaminations and reissue applications. Assign and set over. Assign and set over to the regular perform any and all active which the ASSIGNEE, its successors, assigns or other legal representatives to execute any and all papers including applications for Letters Patent of any and all funds and in any and all countries, entities and i	I believe that I	am the original inventor or an original joint inventor of a claimed invention in the application.
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 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 1 hereby authorize the ASSIGNEE or ASSIGNEE's atorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial (applications, in is or their own 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.	continuation-in	-part applications, material information which became available between the filing date of the prior
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 OP INVENTOR Inventor: Signature: Note: An Application Data Sheet (P10/5B/14 or equivalent), including naming the entire inventive entity, must accompany this form.	FORD GLOB/ of the State of hereinaiter refe interest, domes of the ASSIGN for the invention name or names insert the seri 15/148,6 ASSIGNEE, in applications, in including all a reexaminations	AL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws Delaware, having its principal place of business at Dearborn. County of Wayne, and State of Michigan, erred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and tic and foreign, in and to the inventions and discoveries in the above-identified invention including the right dEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent ms and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own c, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to al/application number and filing date of the application to receive Letters Patent herein: Serial No. 379 , Filing Date 05/06/2016), and I hereby sell, assign and set over to the ts successors, assigns or other legal representatives, all rights of priority, including any provisional of the inventions and discoveries in any and all countries, entities and intergovernmental organizations, and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations is polications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, and reissue applications.
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: Ionathan Thomas Mullen Signature: Date: $\frac{\frac{1}{2}}{2}$ $\frac{3}{16}$	including appli organizations, a	cations for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives
or imprisonment of not more than five (5) years or both. LEGAL NAME OF INVENTOR Inventor: Jonathan Thomas Mulien Signature: Date: 4/2 8/16 Signature: Note: An Application Data Sheet (P10/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	And I hereby re	epresent and warrant that I have not granted any rights inconsistent with the rights granted herein.
Inventor: Jonathan Thomas Mulien Signature: Date: 4/2 8/16 Note: An Amplication Data Sheet (P10/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	or imprisonmer	it of not more than five (5) years or both.
Signature:		
Note: An Application Data Sheet (P10/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	(Date: 7/20/10
Note: An Application Data Sheet (P10/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	Signature:	I CARA CARA CARA CARA CARA CARA CARA CAR
	Note: An Ambli	cation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accommony this form

PATENT REEL: 038490 FRAME: 0365

Attorney Docket Number | 83653249 (FGTL-07800)

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 Inven	tion Route Generation Using Road Lane Line Quality			
The Section 41.	n is directed to:			
1 mis declarano:	n 15 Gilected 10.			
	The attached application, or United States application or PCT international application number 			
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 male 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. <u>15/148,879</u>				
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 r	epresent 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:	Shane Elwan Date: 4-13 201 Co			
Signature:	ZEL			
	etion Dats Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. . declaration form for each additional inventor.			

PATENT REEL: 038490 FRAME: 0366

RECORDED: 05/06/2016