PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
Peter G. Joh	06/18/2013	
Thomas E. Pilutti	06/20/2013	
Matt Y. Rupp	06/17/2013	
Dorian Jack Spero	06/17/2013	
Brian Wolski	06/17/2013	

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13922535

CORRESPONDENCE DATA

Fax Number: 7345429569

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

734 542 0900 Phone:

east@MSTFIRM.COM Email:

Correspondent Name: MACMILLAN, SOBANSKI & TODD, LLC Address Line 1: ONE MARITIME PLAZA - FIFTH FLOOR

Address Line 2: 720 WATER STREET Address Line 4: TOLEDO, OHIO 43604

ATTORNEY DOCKET NUMBER: 83368066(18348)

PATENT

REEL: 030651 FRAME: 0812

NAME OF SUBMITTER:	Renee D. East
Signature:	/Renee D. East/
Date:	06/20/2013
Total Attachments: 5 source=83368066_SignedAssignments#pag source=83368066_SignedAssignments#pag source=83368066_SignedAssignments#pag source=83368066_SignedAssignments#pag source=83368066_SignedAssignments#pag	ge2.tif ge3.tif ge4.tif

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Attorney Docket N	umber	83368066	•	
	- Comments			

Title of Invention	LANE MONITORING WITH ELECTRONIC HORIZON	
This declaration is direc	ted to:	
☐ The a	ttached application, or d States application or PCT international application number filed on	
The above-identified ap	plication was made or authorized to be made by me.	
I hereby state that I had including the claims.	ve reviewed and understand the contents of the specification in the above-identified application	i,
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-part ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for plications, material information which became available between the filing date of the prior and or PCT international filing date of the continuation-in-part application.	r r
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for the ASSIGNEE, its stor the inventions and domaine or names, or in minsert, the serial/applications in and to the applications in and to the serial applications in a serial applica	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over untanologies, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the law re, 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 an oreign, 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 Pater discoveries in any and all countries, entities and intergovernmental organizations, in its or their ow y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney that the number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date (100, 2013), and I hereby sell, assign and set over to the seors, assigns or other legal representatives, all rights of priority, including any provisional the inventions and discoveries in any and all countries, entities and intergovernmental organization ones claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals use applications.	s, d it it it o be all is
including applications for organizations, and to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers or Letters Patent of any and all kinds and in any and all countries, entities and intergovernments or form any and all acts which the ASSIGNEE, its successors, assigns or other legal representative secure thereto the rights herein sold, assigned and set over.	Ц
And I hereby represent	and warrant that I have not granted any rights inconsistent with the rights granted herein.	
I hereby acknowledge to imprisonment of not	hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fin more than five (5) years or both.	e
LEGAL NAME OF IN		
Inventor: Brian	Wolski Date: 6/17/2013	
Signature: Snu	in Woble	
Note: An Application Da	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	i.

Attorney Docket Number	83368066	•

Title of Invention	LANE MONITORING WITH ELECTRONIC HORIZON	
This declaration is direct	ed to:	
	tached application, or I States application or PCT international application number filed on	
The above-identified app	lication was made or authorized to be made by me.	
I hereby state that I have including the claims.	ve reviewed and understand the contents of the specification in the abo	ve-identified application,
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continuation-in-part app	o disclose information which is material to patentability as defined in 37 discretions, material information which became available between the nal or PCT international filing date of the continuation-in-part application.	filing date of the prior
for GLOBAL TECHT of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its state for the inventions and diname or names, or in my insert the serial/applications. ASSIGNEE, its success applications, in and to the	nent agreement heretofore made or by contractual obligation, I do sell, NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existe, having its principal place of business at Dearborn, County of Wayners the ASSIGNEE, its successors, assigns or other legal representatives, reign, in and to the inventions and discoveries in the above-identified inventions, assigns or other legal representatives to make applications and scoveries in any and all countries, entities and intergovernmental organizer name, at its or their election (and I hereby authorize the ASSIGNEE or the property of the property of the application to receive Letters Property, Filing Date Trung 20, 2013, and I hereby sell, a sors, assigns or other legal representatives, all rights of priority, in the inventions and discoveries in any and all countries, entities and intergons claiming benefit of the filing date hereof, continuations, continuations applications.	sting by virtue of the laws, and State of Michigan, the entire right, title and ention including the right to receive Letters Patent ations, in its or their own ASSIGNEE's attorney to atent herein: Serial No. ssign and set over to the cluding any provisional vernmental organizations
including applications fo organizations, and to per	nyself, my heirs, successors, assigns or other legal representatives to exercise Patent of any and all kinds and in any and all countries, entitle form any and all acts which the ASSIGNEE, its successors, assigns or occure thereto the rights herein sold, assigned and set over.	es and intergovernmental
And I hereby represent ar	nd warrant that I have not granted any rights inconsistent with the rights gr	anted herein.
or imprisonment of not m	at any willful false statement made in this declaration is punishable unde tore than five (5) years or both.	r 18 U.S.C. 1001 by fine
LEGAL NAME OF INV	ENTOR	
Inventor: Peter G	. Joh Date: 6/	18/2013
Signature:	eter Joh	
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, in form for each additional inventor.	must accompany this form.

Attorney Docket Number	83368066	33	:1	
Attorney Docket Number	02200000	. 83	1) .	

Title of Invention	LANE MONITORING WITH ELECTRONIC HORIZON
This declaration is direc	ted to:
⊠ The a ☐ Unite	ttached application, or I States application or PCT international application number filed on
The above-identified app	dication was made or authorized to be made by me.
I hereby state that I har including the claims.	ve reviewed and understand the contents of the specification in the above-identified application,
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	o disclose information which is material to patentability as defined in 37 C.P.R. 1.56, including for lications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delaward hereinafter referred to a interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert, the serial/applications and to the including all application reexaminations and reissu	
including applications fo organizations, and to per	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, r Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives coure thereto the rights herein sold, assigned and set over.
And I hereby represent an	d warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not m	t any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both.
LEGAL NAME OF INVI	ENTOR
Inventor: Thomas Signature: 1	E. Pilutti Date: 6/20/2013
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

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Attorney Docket Number	LXSSAXUAA			
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Title of Invention	LANE MONITORING WITH BLECTRONIC HORIZON			
This declaration is directed to:				
⊠ The att □ United	tached application, or I States application or PCT international application numberfiled on			
The above-identified app	olication was made or authorized to be made by me.			
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continuation-in-part app	disclose information which is material to patentability as defined in 37 delications, material information which became available between the nal or PCT international filing date of the continuation-in-part application.	filing date of the prior		
FORD GLOBAL TECHT of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and disname or names, or in my insert the serial/applicated by the serial/applications, in and to the including all application reexaminations and reissufficients.		sting by virtue of the laws, and State of Michigan, the entire right, title and ention including the right to receive Letters Patent ations, in its or their own ASSIGNEE's attorney to atent herein: Serial No. ssign and set over to the cluding any provisional vernmental organizations tions-in-part, divisionals,		
including applications fo organizations, and to per	myself, my heirs, successors, assigns or other legal representatives to ex- or Letters Patent of any and all kinds and in any and all countries, entitie form any and all acts which the ASSIGNEE, its successors, assigns or o ecure thereto the rights herein sold, assigned and set over.	es and intergovernmental		
And I hereby represent ar	nd warrant that I have not granted any rights inconsistent with the rights gr	anted herein.		
or imprisonment of not m	at any willful false statement made in this declaration is punishable undenote than five (5) years or both.	r 18 U.S.C. 1001 by fine		
LEGAL NAME OF INV	ENTOR	*		
Inventor: Matt Y.	Rupp Date: 6/	17/2013		
Signature:	Most Gleeff			
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity,	must accompany this form.		

Attorney Docket Number	

Title of invention	LANE MONITORING WITH ELECTRONIC HORIZON	
This declaration is direct	red to:	
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The above-identified app	olication was made or authorized to be made by me.	
I hereby state that I have including the claims.	ve reviewed and understand the contents of the specification in the above-identific	d application,
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for continuation-in-part	to disclose information which is material to patentability as defined in 37 C.F.R. 1 applications, material information which became available between the filing dat nal or PCT international filing date of the continuation-in-part application.	.56, including e of the prior
FORD GLOBAL TECH laws of the State of Dela hereinafter referred to a interest, domestic and for right of the ASSIGNEE, Patent for the inventions their own name or name attorney to insert the set No. 1999 State to the ASSIGNEE, its s applications, in and to th including all application reexaminations and reissi	uccessors, assigns or other legal representatives, all rights of priority, including an inventions and discoveries in any and all countries, entities and intergovernmental as claiming benefit of the filing date hereof, continuations, continuations-in-parties applications.	virtue of the of Michigan, ight, title and including the eceive Letters ions, in its or ASSIGNEE's herein: Serial and set over ty provisional organizations, divisionals,
including applications fo	myself, my heirs, successors, assigns or other legal representatives to execute any a relaters Patent of any and all kinds and in any and all countries, entities and interform any and all acts which the ASSIGNEE, its successors, assigns or other legal recure thereto the rights herein sold, assigned and set over.	governmental
And I hereby represent ar	nd warrant that I have not granted any rights inconsistent with the rights granted herein	n.
or imprisonment of not m	at any willful false statement made in this declaration is punishable under 18 U.S.C. tore than five (5) years or both.	1001 by fine
LEGAL NAME OF INV	(117/2m/2	
Inventor: Dorian	Jack Spero Date: Date: Date:	•
Signature:	oue).	
Note: An Application	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive an additional declaration form for each additional inventor.	entity, must

PATENT REEL: 030651 FRAME: 0818

RECORDED: 06/20/2013