PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Shane Elwart	02/14/2013
John Shutko	02/14/2013
Kenneth Michael Mayer	02/14/2013
Roger Arnold Trombley	02/17/2013
Christopher Nave	02/14/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13775548

CORRESPONDENCE DATA

Fax Number: 3133227162

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

Phone: 248-358-4400

Email: jrichmond@brookskushman.com
Correspondent Name: BROOKS KUSHMAN P.C./FGTL

Address Line 1: 1000 TOWN CENTER

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER: 83250479

PATENT REEL: 029866 FRAME: 0946 13775

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NAME OF SUBMITTER:	Jody Richmond
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif	

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Attorney Docket Number	1 83230479

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 | METHOD AND ADDADATIS FOR ESTIMATING THE DISTANCE

Title of invent	FROM TRAILER AXLE TO TONGUE	DIGITATIOE
This declaration is	rected to:	
	e attached application, or ited States application number filed on	
The above-identifi	application was made or authorized to be made by me.	
I hereby state that including the clair	have reviewed and understand the contents of the specification in the above-identif	ied application,
I believe that I am	original inventor or an original joint inventor of a claimed invention in the application.	:
continuation-in-pa	y to disclose information which is material to patentability as defined in 37 C.F.R. 1.5 applications, material information which became available between the filing data tional or PCT international filing date of the continuation-in-part application.	6, including for the prior
of the State of Do hereinafter referre interest, domestic of the ASSIGNEE for the inventions name or names, or insert the serial/a 13/775,548 ASSIGNEE, its sapplications, in and	chnologies, LLC, a Ford Motor Company subsidiary, organized and existing by vivere, having its principal place of business at Dearborn, County of Wayne, and State as the ASSIGNEE, its successors, assigns or other legal representatives, the entire foreign, in and to the inventions and discoveries in the above-identified invention incles successors, assigns or other legal representatives to make applications and to receive discoveries in any and all countries, entities and intergovernmental organizations, in important and filing date of the application to receive Letters Patent here filing Date February 25, 2013), and I hereby sell, assign and the inventions and discoveries in any and all countries, entities and intergovernmentations claiming benefit of the filing date hereof, continuations, continuations-in-patiesue applications.	rtue of the laws te of Michigan, right, title and luding the right te Letters Patent its or their own te's attorney to the Serial No. set over to the my provisional thorganizations
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: Sha	Elwart Date: 2-14-13	
Signature:	Hu D	<u> </u>
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accom- tion form for each additional inventor.	npany this form.

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Attorney Docket Number	1 83250479	
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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)

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This declaration is di	rected to:
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The above-identified	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	e original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part	ty 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 ational or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECTOR OF the State of Delay hereinafter referred to interest, domestic and of the ASSIGNEE, it for the inventions and name or names, or in insert the serial/appl 13/775,548 ASSIGNEE, its succeptional applications, in and to including all applications and reference to the state of the state	
including applications organizations, and to	or myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, of for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives o secure thereto the rights herein sold, assigned and set over.
And I hereby represen	t and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of no	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine it more than five (5) years or both.
LEGAL NAME OF IN Inventor: John S	
Signature:	In Shith
	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	92750470
Attorney Docker Number	03230479

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)

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of the State of Dehereinafter referred interest, domestic of the ASSIGNEE for the inventions name of names, or insert the serial/a 13/775,548 ASSIGNEE, its sapplications, in an including all applications of the property of the serial forms.	mployment 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 elaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, and to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and and foreign, in and to the inventions and discoveries in the above-identified invention including the right is successors, assigns or other legal representatives to make applications and to receive Letters Patent and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own 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. ———————————————————————————————————
organizations, and	te for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, ions for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ry to secure thereto the rights herein sold, assigned and set over.
And I hereby repre	sent and warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of	dge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine fnot more than five (5) years or both.
EGAL NAME OF	1/14/12
nventor: Ken	Date: 4/17/1.5
lote: An Applicatio	n Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	83250479
Audiney Docket Number	03230477

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)

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The above-identi	fied application was made or authorized to be made by me.			
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continuation-in-r	e duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for part applications, material information which became available between the filing date of the prior the national or PCT international filing date of the continuation-in-part application.			
FORD GLOBAL of the State of I hereinafter refer interest, domestion the ASSIGNE for the invention name or names, insert the scrial 13/775,548 ASSIGNEE, its applications, in a including all appreciaminations are	Employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto a 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, and to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and count and to the inventions and discoveries in the above-identified invention including the right 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 February 25, 2013 , and I hereby sell, assign and set over to the successors, assigns or other legal representatives, all rights of priority, including any provisional and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations plications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, 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.				
I	present and warrant that I have not granted any rights inconsistent with the rights granted herein.			
I hereby acknow	dedge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine of not more than five (5) years or both.			
LEGAL NAME	OF INVENTOR 7/17/2013			
Inventor:	Roger Arnold Trombley Date: C1 (11 CO1)			
Signature: host and humbly				
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Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.				

Additional Physics I and I deliver I	000000400
Attorney Docket Number	1-83750479
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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)

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The above-identifi	fied application was made or authorized to be made by me.	
I hereby state tha including the clain	at I have reviewed and understand the contents of the specification in the above-identims.	ified application,
I believe that I am	n the original inventor or an original joint inventor of a claimed invention in the application	1.
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of the State of De hereinafter referred interest, domestic a of the ASSIGNEE, for the inventions a name or names, or insert the serial/ar 13/775,548 ASSIGNEE, its stapplications, in and including all appli reexaminations and And I hereby agree including application	Employment agreement heretofore made or by contractual obligation, I do sell, assign ar TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by velaware, having its principal place of business at Dearborn, County of Wayne, and Stated to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire and foreign, in and to the inventions and discoveries in the above-identified invention in and discoveries in any and all countries, entities and intergovernmental organizations, in r in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNE application number and filing date of the application to receive Letters Patent here, Filing Date February 25, 2013, and I hereby sell, assign and successors, assigns or other legal representatives, all rights of priority, including a date to the inventions and discoveries in any and all countries, entities and intergovernmental lications claiming benefit of the filing date hereof, continuations, continuations-in-patents are for myself, my heirs, successors, assigns or other legal representatives to execute any ions for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental countries.	irtue of the laws ate of Michigan, a right, title and cluding the right to Letters Patent its or their own EE's attorney to ein: Serial No. set over to the any provisional al organizations art, divisionals, and all papers,
may deem necessary	ry to secure thereto the rights herein sold, assigned and set over.	representatives
	sent and warrant that I have not granted any rights inconsistent with the rights granted here	1
I hereby acknowled	dge that any willful false statement made in this declaration is punishable under 18 U.S.C	C. 1001 by fine
	more man live (b) years of oom.	
LEGAL NAME OF Inventor: Chris	L = L	
	$\begin{array}{c c} \text{istopher Nave} & \text{Date:} & 2/14/13 \end{array}$	
Signature:	LISTAN	
Note: An Application	on Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompliate the property of the pr	
Jse an additional decla	laration form for each additional inventor.	pany this form.

PATENT REEL: 029866 FRAME: 0952

RECORDED: 02/25/2013