PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3980449

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZHENG HU	07/26/2016
JOHN P. JOYCE	07/20/2016
DARREL ALAN RECKER	06/15/2016

RECEIVING PARTY DATA

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City:	DEARBORN
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Postal Code:	48126

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15220750

CORRESPONDENCE DATA

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Address Line 4: GRAND RAPIDS, MICHIGAN 49501-2567

ATTORNEY DOCKET NUMBER:	83622689
NAME OF SUBMITTER:	XIAOLEI B. ZHANG
SIGNATURE:	/Xiaolei B. Zhang/
DATE SIGNED:	07/27/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

PATENT REEL: 039270 FRAME: 0802

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Attorney Docket Number	83622689

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	HITCH ANGLE DETECTION FOR TRAILER BACKUP ASSIST
	SYSTEM
This declaration is directed	ed to:
☐ United	ached application, or States application or PCT international application number filed on
number into this form wh	en they become known.)
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	re reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part app	disclose information which is material to patentability as defined in 37 C.F.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 TECHI of the State of Delaware hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its st for the inventions and di name or names, or in my insert the serial/applica ASSIGNEE, its success applications, in and to th including all application reexaminations and reiss And I hereby agree for a including applications for	nent 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 necessors, assigns or other legal representatives to make applications and to receive Letters Patent scoveries in any and eli countries, entities and intergovernmental organizations, in its or their own manner, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No. —, Filing Date ————————————————————————————————————
And I hereby represent a	nd warrant that I have not granted any rights inconsistent with the rights granted herein.
	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine nore than five (5) years or both.
LEGAL NAME OF INV	TYX FTYXD
Inventor: Zheng Hu	
Signature:	Bay/
Notes An Application Dat	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
	on form for each additional inventor.

PATENT REEL: 039270 FRAME: 0804

Attorney Docket Number	83622689	
Anomey Docker Number	03044009	

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)

	HITCH ANGLE System	DETECTION	FOR TRA	AILER	BACKUP	ASSIST
This declaration is directed		*****				
☐ The attac	thed application, or tates application or PCI filed on	international applic	ation number orize the insert	tion of the	application fili	ng date and
The above-identified applic	cation was made or auth	orized to be made by	me.			
I hereby state that I have including the claims.	reviewed and understan	nd the contents of t	he specification	n in the al	bove-identified	application,
I believe that I am the origi	nal inventor or an origin	nal joint inventor of a	claimed inven	ation in the	application.	
I am aware of the duty to d continuation-in-part applic application and the national	cations, material inform	nation which becan	ne available b	etween th	e filing date o	
Pursuant to my employme FORD GLOBAL TECHNO of the State of Delaware, hereinafter referred to as t interest, domestic and forei of the ASSIGNEE, its succ for the inventions and disc name or names, or in my n insert the serial/application. ASSIGNEE, its successor applications, in and to the including all applications reexaminations and reissue. And I hereby agree for my including applications for organizations, and to perform	DLOGIES, LLC, a Ford having its principal plate ASSIGNEE, its successors, assigns or other overies in any and all colored ame, at its or their electron number and filing filing Date filing benefit of the applications. yself, my heirs, successible to fany and all colored applications.	Motor Company subsect of business at Dicessors, assigns or of ions and discoveries regal representative ountries, entities and date of the application (and I hereby at date of the applications in any and all cone filing date hereof ors, assigns or other and all kinds and in a	earborn, Countries legal reprint the above-in the AS at in the receive and I half rights of untries, entities of, continuation legal representing and all countries are all countries and all countries are	ized and entry of Way, resentatives dentified in lications at ental organ SSIGNEE over Letters hereby sell, priority, and interpns, continuatives to untries, ent	xisting by virtue me, and State o s, the entire rig nvention includ- nd to receive La nizations, in its or ASSIGNEE's Patent herein: , assign and set including any governmental or uations-in-part, execute any and ities and interger	e of the laws f Michigan, ht, title and ing the right etters Patent or their own s attorney to Serial No. over to the provisional rganizations divisionals, I all papers, overnmental
may deem necessary to second And I hereby represent and			×.	the rights	granted herein.	
I hereby acknowledge that						
or imprisonment of not mor	re than five (5) years or					
LEGAL NAME OF INVE			Date:	5,0	L9 ZU, Z	70120
7//			Date:		er or way c	Cr. 3 350°
Signature:	Shift VIII	<u> </u>			·····	
Note: An Application Data 8 Use an additional declaration			ing the entire in	ventive enti	ty, must accompa	ny this form.

PATENT REEL: 039270 FRAME: 0805

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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)

I tile of Invention	SYSTEM
This declaration is direct	ed to:
Unite	tached application, or 1 States application or PCT international application number filed on (1 hereby authorize the insertion of the application filing date and hen they become known.)
The above-identified app	olication was made or authorized to be made by me.
I hereby state that I hat 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.F.R. 1.56, including for olications, material information which became available between the filing date of the priox and or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its a for the inventions and d name or names, or in m insert the serial/applies	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto INOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws 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 and oreign, in and to the inventions and discoveries in the above-identified invention including the right necessors, assigns or other legal representatives to make applications and to receive Letters Patent iscoveries in any and all countries, entities and intergovernmental organizations, in its or their own y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to the number and filing date of the application to receive Letters Patent herein: Serial No
ASSIGNEE, its succes applications, in and to the	sors, assigns or other legal representatives, all rights of priority, including any provisional he inventions and discoveries in any and all countries, entities and intergovernmental organizations are claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals,
including applications f organizations, and to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental arform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.
And I hereby represent a	and warrant that I have not granted any rights inconsistent with the rights granted berein.
	nat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.
LEGAL NAME OF IN	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -
Inventor: <u>Darrel A</u>	lan Recker Date: V/7/40/0
Signature: 4/4/4/	
	ts Sheet (PTO/SB/14 or equivalent), including asming the entire inventive entity, must accompany this fam. on form for each additional inventor.

PATENT REEL: 039270 FRAME: 0806

RECORDED: 07/27/2016