11/06/2014 503050930

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3097530

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LARRY DEAN ELIE	11/03/2014
JOHN W. JARANSON	11/03/2014
TIMOTHY J. POTTER	11/03/2014
ROBERT F. NOVAK	11/03/2014
MICHAEL M. AZZOUZ	11/03/2014
GERALD J. HEATH	11/03/2014
JEFF A. WALLACE	11/06/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14534654

CORRESPONDENCE DATA

(859)252-0779 Fax Number:

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.

Phone: 859-252-0889 Email: aimee@iplaw1.net KING & SCHICKLI, PLLC **Correspondent Name:**

Address Line 1: 247 NORTH BROADWAY Address Line 4:

LEXINGTON, KENTUCKY 40507

ATTORNEY DOCKET NUMBER:	83477160
NAME OF SUBMITTER:	WARREN D. SCHICKLI
SIGNATURE:	/Warren D. Schickli/
DATE SIGNED:	11/06/2014
	PATENT

REEL: 034119 FRAME: 0028 503050930

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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Attorney Docket Number	83477160

1 Title of Invention	A BI-DIRECTIONAL ELEMENT DRIVE SYSTEM		
This declaration is directed to:			
	attached application, or itternational application number filed on		
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.P.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 made 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 ASSIGNEB, 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 ASSIGNEB, 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 ASSIGNEB or ASSIGNEB's attorney to insert the serial/application number and filling date of the application to receive Letters Patent herein: Serial No. 14/534.654 No. Filing Date November 6, 2014 No. 14/534.654 No. Piling Date November 6, 2014 No. 14/534.654 N			
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 IT	VENTOR Page Blic Date: 11/3/2014		
Signature:	vry Elie		
Notes An Amelication F	lote Chast DTO NO 04 on organization land at		
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.			

Attorney Docket Number	83477160
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Title of Inventi	·	A BI-DIRECTIONAL ELEMENT DRIVE SYSTEM	
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of the State of D hereinafter referred interest, domestic of the ASSIGNER for the inventions name or names, or insert the serial/14/534,6 ASSIGNER, its applications, in an	THOMP elaware ed to as and for 3, its su- and dis r in my applicati 54 successed to the lication	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 by having its principal place of business at Dearborn, County of Wayne, and State of Michigan, 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 scoveries in any and all countries, entities and intergovernmental organizations, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to ion number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date November 6, 2014, and I hereby sell, assign and set over to the ors, assigns or other legal representatives, all rights of priority, including any provisional 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, the applications.	
monuomg appness organizations, and	to perf	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, a 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 cure thereto the rights herein sold, assigned and set over.	
And I hereby repre	seent an	d warrant that I have not granted any rights inconsistent with the rights granted herein.	
or minitary comment o	a not me	et any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine core than five (5) years or both.	
LEGAL NAME O			
Signature: S	Age Consoling a	######################################	
Vate: A. 4. 1 . 1			
vois: wa Applicalli Use an addillonal de	on Data : claration	Sheet (PTO/SB/i4 or equivalent), including naming the entire inventive entity, must accompany this form.	

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Attorney	/ Docket Number	83477160	, •
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The above-identi	fied app	lication was made or authorized to be made by me.	
I hereby state the	at I hav ms.	e reviewed and understand the contents of the specification in the above-identified application,	
I believe that I an	n the ori	ginal 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 made 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. 14/534,654 , Filing Date November 6, 2014), and I hereby sell, assign and set over to the ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional 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.			
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 (Inventor: T		ENTOR Potter Date: //3/2-0/4	
Signature:	The state of the s	the Attack	
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.			

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Attorney Docket Number	83477160

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I believe that I am	the ori	iginal inventor or an original joint inventor of a claimed invention in the application.			
continuation-in-pa	rt appl	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including follications, material information which became available between the filing date of the prional or PCT international filing date of the continuation-in-part application.			
FORD GLOBAL of the State of Dihereinafter referred interest, domestic of the ASSIGNEE for the inventions name or names, or insert the serial/s 14/534.64  ASSIGNEE, its applications, in an including all appreaxaminations an And I hereby agrelicationing applicationing applicati	TECHI elaware d to as and for i, its su and dis r in my applicat d success d to the lication d relssu es for n lons for	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 interpovernments			
organizations, and may deem necessa	to peri ry to se	rform any and all acts which the ASSIONEB, its successors, assigns or other legal representative ecure thereto the rights herein sold, assigned and set over.			
		nd warrant that I have not granted any rights inconsistent with the rights granted herein.			
<u>or imprisonment o</u>	f not m	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fin- nore than five (5) years or both.			
LEGAL NAME O Inventor: Ro		Novak Date: Nov 3 2014			
Signature:	W	LM.			
Note: An Applicati	on Data	s Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form form for each additional ignentor,			

Attorney Docket Number 83477160
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FORD GLOBAL TEC of the State of Delaw hereinafter referred to interest, domestic and of the ASSIGNEE, its for the inventions and name or names, or in insert the serial/applitude of the ASSIGNEE, its succepplications, in and to	eyment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws vare, having its principal place of business at Dearborn, Country 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 mame, 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 November 6, 2014, and I hereby sell, assign and set over to the essors, assigns or other legal representatives, all rights of priority, including any provisional the inventions and discoveries in any and all countries, entities and intergovernmental organizations the inventions and discoveries in any and all countries, entities and intergovernmental organizations claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, issue applications.				
including applications organizations, and to	or 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 perform any and all sots which the ASSIGNEE, its successors, assigns or other legal representatives o secure thereto the rights herein sold, assigned and set over.				
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LEGAL NAME OF IN	NVENTOR  SI M. AZZOUZ  Date; 11/3/14				
Signature:	lygy				
Note: An Application D Use an additional declar	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, attom form for each additional inventor.				

(PROCESSES - NAMES AND ADDRESS OF THE PROCESS OF TH	
	83477160
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LEGAL NAME OF INVE Inventor: Gerald J. F						
Signature; Jud						
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. form for each additional inventor.					

Attorney Docket Number	83477160

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Inventor: Jeff A. Wallace Date: 1/-6-2014					
Signature: Aff A Walla					
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PATENT REEL: 034119 FRAME: 0036

**RECORDED: 11/06/2014**