## 505171595 11/01/2018 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5218363

SUBMISSION TYPE: NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
LARRY DEAN ELIE		02/23/2016
JOHN WAYNE JARANSON		02/24/2016
TIMOTHY J. POTTER 02/23/2016		
ROBERT F. NOVAK		02/23/2016
JEFF A. WALLACE		02/24/2016
MICHAEL M. AZZOUZ 02/29/2		02/29/2016
GERALD J. HEATH		02/24/2016

EVANGELOS P. SKOURES

#### **RECEIVING PARTY DATA**

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

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16178120

#### **CORRESPONDENCE DATA**

Fax Number:	(616)957-8196		
		e-mail address first; if that is unsuccessful, it will be sent nat is unsuccessful, it will be sent via US Mail.	
Phone:	616-9	949-9610	
Email:	ptom	ail@priceheneveld.com	
Correspondent Name:	Correspondent Name: DANIEL R. HOOVLER / PRICE HENEVELD LLP		
Address Line 1:	: 695 KENMOOR S.E.		
Address Line 2:	P. O.	BOX 2567	
Address Line 4:	GRA	ND RAPIDS, MICHIGAN 49501-2567	
ATTORNEY DOCKET NUMBER:		84087133	
NAME OF SUBMITTER:		DANIEL R. HOOVLER	

#### 505171595

#### PATENT REEL: 047387 FRAME: 0338

02/24/2016

SIGNATURE:	/Daniel R. Hoovler/
DATE SIGNED:	11/01/2018
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 8	·
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Previous Attorney Docket Number 83601634

#### 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 Power Management for Vehicle Door System
This declaration is directed to:
The attached application, or United States application or PCT international 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.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, Filing Date, and I hereby sell, assign and set over to the applications, in and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations applications 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 OF INVENTOR
Inventor: <u>Larry Dean Elie</u> Date: <u>Z72372</u>
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.

Previous Attorney Docket Number 83601634

### 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 Invent	ian Ba		Kan Mabiala Dasa	. O	
1 3110 101 3319 0311	1011 F.L	ower Manag <mark>ement</mark>	tor venicle poor	System	
This declaration	is directed to				······
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	Onnou mar	acs approcation of 1 C 1 inte	filed on	under	
Inc above-identi	med applicat	ion was made or authorize	ed to be made by me.		
I hereby state th including the cla	at I have re ims.	viewed and understand t	he contents of the spea	ification in th	e above-identified application,
I believe that I at	m the origina	l inventor or an original jo	oint inventor of a claim	ed invention in	the application.
continuation-in-p	part applicati	close information which i ions, material informatic r PCT international filing	n which became available	lable between	n 37 C.F.R. 1.56, including for the filing date of the prior ation.
FORD GLOBAL of the State of I hereinafter referi interest, domesti- of the ASSIGNE for the invention name or names, insert the serial ASSIGNEE, its applications, in a including all ap reexaminations a	. TECHNOL Delaware, ha red to as the c and foreign E, its succes s and discove or in my nan /application successors, and to the inv plications cl nd reissue ap	OGIES, LLC, a Ford Mo ving its principal place of ASSIGNEE, its success a, in and to the inventions sors, assigns or other leg eries in any and all count ne, at its or their election number and filing date 	tor Company subsidiary of business at Dearborn ors, assigns or other le and discoveries in the al representatives to ma ries, entities and interge (and I hereby authorize of the application to 	v, organized and b, County of W gal representat above-identific ake application overnmental or the ASSIGNE oreceive Lette and I hereby s ghts of priorit entities and in finuations, con	sell, assign and set over unto d existing by virtue of the laws /ayne, and State of Michigan, ives, the entire right, title and d invention including the right s and to receive Letters Patent ganizations, in its or their own E or ASSIGNEE's attorney to rrs Patent herein: Serial No. ell, assign and set over to the y, including any provisional tergovernmental organizations tinuations-in-part, divisionals,
including applications, and	ations for Le	tters Patent of any and a	I kinds and in any and he ASSIGNEE, its suc	all countries, cessors, assigns	to execute any and all papers, entities and intergovernmental s or other legal representatives
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		than five (5) years or both	÷		
	or havens i ohn Wayne Ja	aranzan		Date:	zlantia
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Signature:		freed 2000 freedom frankriker			
Note: An Applica	tion Data She	et (PTO/SB/14 or equivalen	t), including naming the a	entire inventive e	ntity, must accompany this form.
Use an additions? c	leclaration for	m for each additional invento	)r.		

# Previous Attorney Docket Number 83601634

#### 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 Invent	Lion Power Management for Vehicle Door System		
This declaration	is directed to:		
n de la ser e se altère d'arrenteres de la serie d			
	The attached application, or United States application or PCT international application number filed on		
The above-ident	ified application was made or authorized to be made by me.		
I hereby state the including the cla	hat I have reviewed and understand the contents of the specification in the above-identified application, ilms.		
I believe that I a	m the original inventor or an original joint inventor of a claimed invention in the application.		
continuation-in-	he 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 GLOBAI of the State of 1 hereinafter refer interest, domesti of the ASSIGNI for the inventior name or names, insert the seria ASSIGNEE, its applications, in including all ap reexaminations a And I hereby ag including applic organizations, an	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto L 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 ic and foreign, in and to the inventions and discoveries in the above-identified invention including the right EE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent as 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 I/application number and filing date of the application to receive Letters Patent herein: Serial No, and I hereby sell, assign and set over to the s 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, in-part, divisionals, and reissue applications.		
· · · · · · · · · · · · · · · · · · ·	ssary to secure thereto the rights herein sold, assigned and set over.		
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.			
	OF INVENTOR Timothy J. Potter Date: 2/23/2016		
Signature:	Terret 1 1775		
	a contraction of the second		
	ation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, declaration form for each additional inventor.		

Previous Attorney Docket Number 83601634

# 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	ion	Power Managemei	nt for Vehicle Do	or System		
This declaration	is direct	ed to:				
	United	tached application, or States application or PCT				
The above-ident	ified app	lication was made or autho	rized to be made by me			
I hereby state the including the cla		e reviewed and understand	d the contents of the s	specification i	n the above-identified appl	leation,
I believe that I a	m the ori	iginal inventor or an origina	ll joint inventor of a cla	imed inventio	n in the application.	
continuation-in-	part app		ation which became a	available betv	ed in 37 C.F.R. 1.56, includiveen the filing date of the oplication.	
FORD GLOBA of the State of hereinafter refer interest, domest of the ASSIGN for the invention name or names, insert the serial ASSIGNEE, in applications, in including all a reexaminations	L TECH Delawar red to a ic and fo EE, its su is and di or in my l/applica s success and to ff pplicatio and reiss	NOLOGIES, LLC, a Ford I e, having its principal place s the ASSIGNEE, its succe reign, in and to the inventio uccessors, assigns or other iscoveries in any and all co y name, at its or their electi- tion number and filing d , Filing Date	Motor Company subsid te of business at Dearl essors, assigns or othe ons and discoveries in legal representatives to untries, entities and int on (and I hereby author late of the application gal representatives, al es in any and all count e filing date hereof,	liary, organize orn, County of r legal represent the above-ider or make applicate ergovernments rize the ASSI to receive ), and I here i rights of prises, entities and continuations,	I do sell, assign and set ov d and existing by virtue of th of Wayne, and State of Mi entatives, the entire right, th ntified invention including th ations and to receive Letters al organizations, in its or th GNEE or ASSIGNEE's atto Letters Patent herein: Ser riby sell, assign and set over riority, including any pro- nd intergovernmental organ continuations-in-part, divi	he laws chigan, itle and he right Patent eir own orney to ial No. r to the visional izations sionals,
including applied organizations, a	ations for nd to per	or Letters Patent of any an	d all kinds and in any ch the ASSIGNEE, its	and all count successors, as	ives to execute any and all ries, entities and intergoven signs or other legal represe	nmental
And I hereby re	present a	nd warrani that I have not g	granted any rights incor	isistent with th	e rights granted herein.	
I hereby acknow or imprisonmen	vledge th t of not r	nat any willful false statements or the statement of the five (5) years or t	ent made in this declar both.	ation is punisl	nable under 18 U.S.C. 1001	by fine
LEGAL NAME	OF INV	/ENTOR		Date:	2-23-2016	· · · · · · · · · · · · · · · · · · ·
	Robert F.	<u>, Novak</u>		Date:	- <u></u>	
Signature:	1.1/_0					
		a Sheet (PTO/SB/14 or equiv		the entire inven	nive entity, must accompany th	us form.

Previous Attor

Attorney Docket Number 83601634

#### 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 Power Management for Vehicle Door System					
This declaration i	This declaration is directed to:					
	The attached application, or United States application or PCT international application number filed on					
The above-identi	fied application was made or authorized to be made by me.					
I hereby state th including the clai	at I have reviewed and understand the contents of the specification in the above-identified application, ims.					
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.					
continuation-in-p	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 he national or PCT international filing date of the continuation-in-part application.					
FORD GLOBAL of the State of L hereinafter referr interest, domestic of the ASSIGNE for the invention name or names, a insert the serial. ASSIGNEE, its applications, in a including all ap reexaminations a	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 is 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. 					
including applications, ar	aree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, ations 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 sary to secure thereto the rights herein sold, assigned and set over.					
And I hereby rep	present 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 2.74.2011					
Inventor: <u>k</u>	<u>cir A. Wallace</u> Date: <u>2-29-2016</u>					
Signature:	- <u>#////////////////////////////////////</u>					
Note: Ar Apple	ation Data Slicet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, declaration form for each additional inventor.					

Previous Attorney Docket Number 83601634

## 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	n Power Management for Vehicle Door System		
	and management to remote boot bystem		
This declaration is a	directed to:		
	The attached application, or United States application or PCT international application number filed on		
The above-identifie	d application was made or authorized to be made by me.		
I hereby state that including the claims	I have reviewed and understand the contents of the specification in the above-identified application, s.		
I believe that I am i	he original inventor or an original joint inventor of a claimed invention in the application.		
communition-m-ball	uty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for t applications, material information which became available between the filing date of the prior national or PCT international filing date of the continuation-in-part application.		
of the State of Dela hereinafter referred interest, domestic ar of the ASSIGNEE, for the inventions at name or names, or i insert the serial/app ASSIGNEE, its su- applications, in and	ployment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto ECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws aware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and nd foreign, in and to the inventions and discoveries in the above-identified invention including the right its successors, assigns or other legal representatives to make applications and to receive Letters Patent nd 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 plication number and filing date of the application to receive Letters Patent herein: Serial No		
organizations, and to	for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, ns for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental o perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives to secure thereto the rights herein sold, assigned and set over.		
And I hereby represe	ent 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 Investor: Mich	and the second sec		
Signature:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Note: An Application Use an additional decla	Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, aration form for each additional inventor.		

Previous Attorney Docket Number 83601634

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Title of Inventi	on Power Management for Vehicle Door System	
This declaration i	s directed to:	
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The above-identif	fied application was made or authorized to be made by me.	
I hereby state the including the clai	at I have reviewed and understand the contents of the specification in the above-identified application, ms.	
I believe that I an	n the original inventor or an original joint inventor of a claimed invention in the application.	
continuation-in-p	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 to national or PCT international filing date of the continuation-in-part application.	
FORD GLOBAL of the State of D hereinafter referr interest, domestic of the ASSIGNE for the inventions name or names, o insert the serial ASSIGNEE, its applications, in a including all ap 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 belaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, ed 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 aitorney to 'application number and filing date of the application to receive Letters Patent herein: Serial No. 	
including applications, and	ations for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental d to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ary to secure thereto the rights herein sold, assigned and set over.	
And I hereby rep	resent 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	
	Date: 2-24-20/6	
Signature:	Junear JAVeller	
	tion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. leclaration form for each additional inventor.	

Previous Attorney Docket Number 83601634

#### 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)

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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 investor or an original joint investor of a claimed investion 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	
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 Inventor: Evangelos P. Skoures Date: 2 24 16	
$\mathcal{C}$ $\mathcal{P}$ $\mathcal{N}$	
Signature: <u>Competer</u> V. Herman	
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.	

#### PATENT REEL: 047387 FRAME: 0347

### RECORDED: 11/01/2018