505639286 08/26/2019

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5686093

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HANYANG B. CHEN	08/26/2019
MICHAEL J. IRBY	08/21/2019
MATTHEW THOMAS LOISELLE	08/14/2019
WILLIAM DAVID TREHARNE	08/16/2019
MARK E. SHIELDS	08/16/2019
JOSEPHINE S. LEE	08/20/2019

#### **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:	16550657

### **CORRESPONDENCE DATA**

**Fax Number:** (248)988-8363

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:** 248-988-8360

Email: docket@cgolaw.com

Correspondent Name: CARLSON, GASKEY & OLDS, P.C./FORD

Address Line 1: 400 W. MAPLE RD.

Address Line 2: SUITE 350

Address Line 4: BIRMINGHAM, MICHIGAN 48009

<b>ATTORNEY DOCKET NUMBER:</b> 84158597; 67186-805PUS1	
NAME OF SUBMITTER:	BENJAMIN J. COON
SIGNATURE:	/Benjamin J. Coon/
DATE SIGNED:	08/26/2019

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

Total Attachments: 6
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source=805PUS1 Declarations Assignment Executed#page6.tif

Attorney Docket Number 84158597, 67186-805PUST

## 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)

Tule of Inventors	VEHICLE BATTERY MONITORING METHOD AND ASSEMBLY
The casterore is the casterore	
	the best application or  If the supplication or PCT international application number  filed on(I hereby authorize the insertion of the application filing date and line the besome known.)
	pheation was usade or authorized to be made by me.
I hereby somethan I have been been been been been been been be	we were the stand understand the contents of the specification in the above-identified application.
	mental investor or an original joint inventor of a claimed invention in the application.
	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for reference material information which became available between the filing date of the prior and or P. I international filing date of the continuation-in-part application.
PARTY CLASSES. HE OF THE STORY OF DETERMINE PROPERTY OF THE STORY OF T	present theretofore made or by contractual obligation, I do sell, assign and set over unto the legit sells of a ford Motor Company subsidiary, organized and existing by virtue of the laws to principal place or business at Dearborn, County of Wayne, and State of Michigan, the ASSIGNEF is successors, assigns or other legal representatives, the entire right, title and or tight in and to the inventions and tiscoveries in the above-identified invention including the right made of 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 as name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to atom number and filing date of the application to receive Letters Patent herein: Serial No. Filing Date August 26, 2019 ——), and I hereby sell, assign and set over to the 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 ons claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, usual applications.
metading applications organizations and to p	r myself, my hears, successors, assigns or other legal representatives to execute any and all papers, for Leners Patent of any and all kinds and in one and all countries, entities and intergovernmenta erform one and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights become odd, assigned and secure thereto the rights become odd, assigned and secure.
And I hereby represent	and warrant that I have not granted any rights inconsistent with the rights granted herein.
Thereby acknowledge or imprisonment of no	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fin more than five (5) sears or both
LEGAL NAME OF IN Inventor Hanyar	VENTOR <u>eB Chen                                   </u>
	PATENT  ## Short If 10 Strike or Spin Short in the low PREEL: 050164 FRAME: 0715 " """"

Attorney Docket Number | 84158597; 67186-805PUS1

## 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	VEHICLE BATTERY MONITORING METHOD AND ASSEMBLY	
This declaration is directed	ed to:	
☐ United	sached application, or  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 hav including the claims.	e 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 appl	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 all 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. 16/550.657, Filing DateAugust 26, 2019), 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 an	d 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 INVE Inventor: <u>Michael J.</u>	Je 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1	
Signature:	7/13/	
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.	

**REEL: 050164 FRAME: 0716** 

Attorney Docket Number | 84158597; 67186-805PUS1

## 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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FORD GLOBAL TECHN of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and dis name or names, or in my insert the serial/applicated 16/550,657  ASSIGNEE, its successed applications, in and to the including all application reexaminations and reissue.			
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 an	d warrant that I have not granted any rights inconsistent with the rights granted herein.		
or imprisonment of not me	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 INVE Inventor: Matthew T	NTOR homas Loiselle // Date: 2017 AUS 14		
Signature: Watchew 1	to the factor		
	A place are four as some [ minutes		
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

Attorney Docket Number	84158597; 67186-805PUS1

# 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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FORD GLOBAL TECHN 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/applicat 16/550,657 ASSIGNEE, its success applications, in and to the	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 and 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 accoveries 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.  ———————————————————————————————————
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.	
or imprisonment of not m	at 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	
Signature: William L	Miss David Trehame Date: Aug 16, 2019
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

## 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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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.		
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or imprisonment of not n	at 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 INV		
Inventor: Mark E	Shields Date: My 10/9	
Signature: MA		
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.	

Attorney Docket Number

84158597; 67186-805PUST

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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. 16/550,657, Filing DateAugust 26, 2019), 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.		
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LEGAL NAME OF INV Inventor: Josephine		Date: 8/20/20/9
Signature:	ph 5 de	
Note: An Application Date	Spect (PTO/SB/14 or equivalent), including	g naming the entire inventive entity, must accompany this form.  PATENT
Use an additional declaration RECORDED: 08/	n form for each additional inventor. 26/2019	REEL: 050164 FRAME: 0720