### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

Version v1.1 EPAS ID: PAT4915082

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JALAL JAWANY	02/20/2018
VIVEKANANDH ELANGOVAN	02/20/2018
ALI HASSANI	02/20/2018
PATRICIA SEASHORE	02/20/2018
TIMOTHY THIVIERGE JR	02/20/2018
YASMIN JAWAD	02/19/2018
ERICK MICHAEL LAVOIE	02/20/2018

#### **RECEIVING PARTY DATA**

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

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

Property Type	Number
Application Number:	15900135

### **CORRESPONDENCE DATA**

**Fax Number:** (312)980-0728

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:** 312-269-8000

**Email:** marden@ngelaw.com, patents@ngelaw.com

Correspondent Name: JAMES P. MURAFF

Address Line 1: TWO NORTH LASALLE STREET, SUITE 1700

Address Line 2: ATTN: PATENT ADMINISTRATOR

Address Line 4: CHICAGO, ILLINOIS 60602

<b>ATTORNEY DOCKET NUMBER:</b> 84003248 (026780.9111)	
NAME OF SUBMITTER:	JAMES P. MURAFF
SIGNATURE:	/JAMES P. MURAFF/
DATE SIGNED:	04/13/2018

### **Total Attachments: 7**

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Attorney Docket Number	84003248 (026780-9111)
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ide of Invention DEAD ZONE MITIGATION FOR A PASSIVE ENTRY SYSTEM ( VEHICLE	OF A
his declaration is directed to:	
The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and into this form when they become known.)	number
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or unsuant to my employment agreement heretofore made or by contractual obligation, I do sell, assign and set over the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Miereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, to the state of domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the reset of ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Partie inventions and discoveries in any and all countries, entities and intergovernmental organizations, in its or their own reames, or in my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to escrial/application number and filing date of the application to receive Letters Patent herein: Serial policies on the serial policies of the application of priority, including any provisional application and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations included and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations included and to the inventions and discoveries in any and all countries, entities and intergovernmental organizations included applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexamination in the applications.	he laws chigan, the and right of tent for name o insert al. No. to the cations, ding all
nd I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all cluding applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovern ganizations, and to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal represer ay deem necessary to secure thereto the rights herein sold, assigned and set over.	imental
nd I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.	
hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by apprisonment of not more than five (5) years or both.	fine or
EGAL NAME OF INVENTOR  Iventor: Vivekanandh Elangovan Date: 02 20 20 18 20 18 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 18 20 20 20 18 20 20 20 20 18 20 20 20 20 20 20 20 20 20 20 20 20 20	
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Administration	Docket Numbe	er 1 # 200000000	3 (026780-9111)
CONTRACTOR NO.		22. ) O.A.O.O.S.S.S.S.	X (MARE) OMERICA 3 4

Title of Invention	DEAD ZONE MITIGATION FOR A PASSIVE ENTRY SYSTEM OF A		
	VEHICLE		
This declaration is directed	rd to:		
The attached application, or United States application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and number into this form when they become known.)			
The above-identified app	fication was made or authorized to be made by me.		
I hereby state that I has 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	odisclose 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 tall or PCT international filing date of the continuation-in-part application.		
FORD GLOBAL TECHI of the State of Delawari hereinafter referred to a interest, domestic and for the ASSIGNEE, its succe the inventions and discover or names, or in my name the serial/application in ASSIGNEE, its successor in and to the inventions applications claiming be- reissue applications.  And I hereby agree for including applications for	sent 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 eign, in and to the inventions and discoveries in the above-identified invention including the right of essors, assigns or other legal representatives to make applications and to receive Letters Patent for reries in any and all countries, entities and intergovernmental organizations, in its or their own name e, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to insert tumber and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————		
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.			
imprisonment of not mor	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or e than five (5) years or both.		
LEGAL NAME OF INV.	· · · · · · · · · · · · · · · · · · ·		
Inventor: _Ali_Hassa	ni Date 2/2/14		
Queen Comment			
Note: An Application Data Use an additional declaration	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, a form for each additional inventor.		

Attorney Docket Number	84003248 (026780-9111)

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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.		
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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: Yasmin Jawad Date:		
Signature: WMMA DUAA		
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this Use an additional declaration form for each additional inventor.	îorm.	

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Attorney Docket Number	84003248 (026780-9111)

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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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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 7 2 20 - 1
Inventor: Jeda Jawany J. Date: 9 / O.
Signature / Signature
Note: An Application Data Sheer (VTO/SB/L/ 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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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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LEGAL NAME OF INVENTOR Inventor: Erick Michael Lavoie Date: 2/20/2015
Signature: Earl Mudrael Forms
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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imprisonment of not more than five (5) years or both.  LEGAL NAME OF INVENTOR Inventor: Patricia Seashore  Signature: Date: Date:  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.				
Inventor: Patricia Seashore  Signature: Date: Da	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.			
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Attorney Docket Number	84003248	(026780-9111)	

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LEGAL NAME OF INVENTOR Inventor: Timethy This ierze Ir / Date: 2-20-/8
Signature:
Note: An Application Data 55ect (PTO/SB/44 or equivalent), including naming the entire inventive entity, must accompany this form.  Use an additional declaration form for each additional inventor.
PATENT

RECORDED: 04/13/2018 REEL: 045536 FRAME: 0169