#### 505076807 09/04/2018

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5123564

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
THEODORE JOSEPH FILIPPI	08/21/2018
ALLAN ROY GALE	08/21/2018
KE ZOU	08/10/2018
JACEK BRAUNER	08/29/2018
KRISHNA PRASAD BHAT	08/09/2018
MICHAEL W. DEGNER	08/13/2018

#### **RECEIVING PARTY DATA**

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

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

Property Type	Number	
Application Number:	16116408	

#### **CORRESPONDENCE DATA**

Fax Number: (248)358-3351

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.

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Email: journedian@brookskushman.com

**Correspondent Name:** BROOKS KUSHMAN P.C. 1000 TOWN CENTER Address Line 1:

Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER:	84036534 (FMC8987PUS)
NAME OF SUBMITTER:	IRINA N. SULLIVAN
SIGNATURE:	/Irina N. Sullivan/
DATE SIGNED:	09/04/2018

# Total Attachments: 6 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif

Attorney Docket Number	84036534

Title of Invention N	IICRO-GRID SMART OUTPUT ADAPTOR
This declaration is directed	to:
	hed application, or ates application or PCT international application number filed on (I hereby authorize the insertion of the application filing date and they become known.)
The above-identified applic	ation was made or authorized to be made by me.
I hereby state that I have including the claims.	reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the origin	nal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part applic	isclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for ations, material information which became available between the filing date of the prior or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHNO of the State of Delaware, I hereinafter referred to as the interest, domestic and foreign of the ASSIGNEE, its successor applications, in and to the inventions and discontained the serial application of the inventions and discontained the serial application of the inventions and discontained the serial application of the invention of the inve	nt agreement heretofore made or by contractual obligation, I do sell, assign and set over unto DLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws having its principal place of business at Dearborn, County of Wayne, and State of Michigan, ne ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and gn, in and to the inventions and discoveries in the above-identified invention including the right essors, assigns or other legal representatives to make applications and to receive Letters Patent overies in any and all countries, entities and intergovernmental organizations, in its or their own ame, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to number and filing date of the application to receive Letters Patent herein: Serial No.  —, Filing Date August 29, 2018 ——, and I hereby sell, assign and set over to the square or other legal representatives, all rights of priority, including any provisional nventions and discoveries in any and all countries, entities and intergovernmental organizations claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, applications.
including applications for l organizations, and to perfo	self, my heirs, successors, assigns or other legal representatives to execute any and all papers, Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental rm any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives are 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 mor	any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine than five (5) years or both.
LEGAL NAME OF INVENT	
Signature: Therefore	Joseph Felips
	heet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	84036534

Title of Invention	MICRO-GRID SMART OUTPUT ADAPTOR
This declaration is directed	ed to:
T1.32.3	ached application, or  States application or PCT international application number  filed on (I hereby authorize the insertion of the application filing date and en they become known.)
ł	
The above-identified app	lication was made or authorized to be made by me.
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.
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 ications, material information which became available between the filing date of the prior in or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHI 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/applicate 16/116,408 ASSIGNEE, its success applications, in and to th including all application reexaminations and reissu And I hereby agree for re	NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws 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 accessors, assigns or other legal representatives to make applications, in its or their own name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to be account and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
organizations, and to per may deem necessary to so	form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ecure thereto the rights herein sold, assigned and set over.
And I hereby represent ar	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. Inventor: Allan Roy	
100	Date: (Any Digital)
Signature: UM	
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Attorney Docket Number	84036534

Title of invention	MICRO-GRID SWART OUTPUT ADAPTOR		
This declaration is directed	ed to:		
X 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 wh	en they become known.)		
The above-identified appl	lication was made or authorized to be made by me.		
including the claims.	e reviewed and understand the contents of the specification in the above-identified application,		
I haliave that I am the orig	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. 16/116.408 , Filing Date August 29, 2018 ), 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 OF INV	1 / / 1 / 1 mi · B		
Inventor: Ke Zou	Date: 0/13/ Cot 9		
Signature:			
Note: An Application Data Use an additional declaratio	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. n form for each additional inventor.		

Attorney Docket Number	84036534	

Title of Invention	MICRO-GRID SMART OUTPUT ADAPTOR
*	
This declaration is directed	to:
<b>3</b> 77 (70)	
	ched application, or
L United S	tates application or PCT international application number
number into this form whe	filed on (I hereby authorize the insertion of the application filing date and n they become known.)
The above-identified appli	cation was made or authorized to be made by me.
I hereby state that I have including the claims.	reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the original	nal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part applie	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for cations, material information which became available between the filing date of the prior I or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHNO of the State of Delaware, hereinafter referred to as interest, domestic and fore of the ASSIGNEE, its suc for the inventions and disc name or names, or in my rinsert the serial/application 16/116.408  ASSIGNEE, its successo applications, in and to the including all applications reexaminations and reissue And I hereby agree for mincluding applications for organizations, and to perfect the state of th	ant agreement heretofore made or by contractual obligation, I do sell, assign and set over unto DLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws 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 ign, in and to the inventions and discoveries in the above-identified invention including the right cessors, assigns or other legal representatives to make applications and to receive Letters Patent overies in any and all countries, entities and intergovernmental organizations, in its or their own number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date August 29, 2018, and I hereby sell, assign and set over to the rs. assigns or other legal representatives, all rights of priority, including any provisional inventions and discoveries in any and all countries, entities and intergovernmental organizations claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, applications.  Veelf, my heirs, successors, assigns or other legal representatives to execute any and all papers, Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives ure 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.
	any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine re than five (5) years or both.
LEGAL NAME OF INVE	419 10 G 1 3 A 10
Inventor: Jacek Braun	
Signature:	aunon
Note: An Application Date (	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
	form for each additional inventor.

4 TS 1 1 1	0.4037.534
Attorney Docket Number	84036534
Attorney Docket Namoer	[ .0403033 ]

Title of Invention	MICRO-GRID SMART OUTPUT ADAPTOR
This declaration is directed	ed to:
X 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.)	
mt identified anni	ication 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.	
x 1 11 that I am 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 employn FORD GLOBAL TECHT of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and diname or names, or in my insert the serial/applicated 16/116,408  ASSIGNEE, its success applications, in and to the including all application reexaminations and reisson And I hereby agree for a including applications for organizations, and to per organizations, and to per series of the series of	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 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 clion number and filing date of the application to receive Letters Patent herein: Serial No.
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 INV	ENTOR Pasad Bhat Date: 9th August 2018
Inventor: Krishna P Signature:	Tasad Dilat
Note: An Application Date	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. In form for each additional inventor.

Attorney Docket Number 8	84036534

Title of Invention	MICRO-GRID SMART OUTPUT ADAPTOR	
This declaration is directed to:		
X 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 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 orig	ginal inventor or an original joint inventor of a claimed invention in the application.	
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FORD GLOBAL TECHI of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and diname or names, or in my insert the serial/applicationsert the serial/applicationsert the serial/applications, in and to the including all application reexaminations and reiss		
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 INV	ENTOR 0/13/2018	
Inventor: Michael V Signature:	had W. Dogner	
	0	
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: 046780 FRAME: 0829

**RECORDED: 09/04/2018**