502599712 12/12/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2646020

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
DAVID A. SYMANOW	11/25/2013
JOSEPH S. WITEK	11/26/2013
ERIC M. RADEMACHER	12/05/2013
JOHN T. BREMMER	12/12/2013
HAFIZ S. KHAFAGY	11/25/2013
ZELJKO DELJEVIC	11/26/2013

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14104082	

CORRESPONDENCE DATA

 Fax Number:
 (734)542-9569

 Phone:
 734 542 0900

Email: east@MSTFIRM.COM

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MACMILLAN, SOBANSKI & TODD, LLC - FORD

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Address Line 2: 720 WATER STREET
Address Line 4: TOLEDO, OHIO 43604

ATTORNEY DOCKET NUMBER: 83333298(18251)

REEL: 031770 FRAME: 0144

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PATENT

NAME OF SUBMITTER:	RENEE D. EAST	
Signature:	/Renee D. East/	
Date:	12/12/2013	
Total Attachments: 6 source=18251_Signed_Assignments#page1.tif source=18251_Signed_Assignments#page2.tif source=18251_Signed_Assignments#page3.tif source=18251_Signed_Assignments#page4.tif source=18251_Signed_Assignments#page5.tif source=18251_Signed_Assignments#page6.tif		

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Attorney Docket Number	83333298	. 1 8 8

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention ELECTRIC MOTOR CONTROL DURING UNRELIABLE				
Title of Tues Average	POWER SUPPLY OPERATIONS			
This declaration is directed to:				
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X The at	tached application, or			
∑ The at	States application of PCT international application number			
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	t and an him man the layer was			
The above-identified app	dication was made or authorized to be made by me.			
	ve reviewed and understand the contents of the specification in the above-identified application,			
I hereby state that I have	ve reviewed and understand the comments of			
including the claims.	· · · · · · · · · · · · · · · · · · ·			
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Tam aware of the duty t	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for			
application and the natio	bual or PCT international filing date of the continuation-in-part application.			
	the second obligation. I do sell assign and set over unto			
Pursuant to my caploy	ment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto involved in the laws in the set of the laws in the laws i			
FORD GLOBAL TECH	INOLOGIES, LLC, a Ford Motor Company of Wayne, and State of Michigan,			
of the State of Delawar	re, having its principal place of boshess or other legal representatives, the entire right, title and			
hercinafter referred to a	as the ASSIGNEE, as successors, assigns in the chove dentified invention including the right			
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organizations, and to p	secure thereto the rights herein sold, assigned and set over.			
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And I hereby represent	and warrant that I have not granted any rights inconsistent with the rights granted herein.			
	the design of punishable under 18 U.S.C. 1001 by fine			
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 bout.			
LEGAL NAME OF IN	IVENTOR Date: /// 25//3			
Inventor: David	A. Symanow Date:			
In the summer of				
Signature:				
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.				
Use an additional declara	ation form for each additional inventor.			

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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Inver	ntion ELECTRIC MOTOR CONTROL DURING UNRELIABLE
	POWER SUPPLY OPERATIONS
This declaration	n is directed to:
X	The attached application, or
	United States application or PCT international assistant assistant
E.	filed on filed on
Na as ad vas si kanassis	
The above-iden	ulified application was made or authorized to be made by me
I hereby state t	that I have reviewed and understand the contents of the specification in the above-identified application,
including the cl	aims.
I believe that I a	am the original inventor or an original joint inventor of a claimed invention in the application.
I am aware of the	he 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 the national or PCT international filing date of the continuation-in-part application:
approacionand	the national of Fest international thing date of the continuation-in-pair application.
Pursuant to my	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto
FORD GLOBA	L 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
herematter reter	rred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and
interest, domest	ic and foreign, in and to the inventions and discoveries in the above-identified invention including the right
or the invention	EE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent
name or names.	ns 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
insert the seria	l/application number and filing date of the application to receive Letters Patent herein: Serial No.
14/104004	, Filing Date 12-Dec-2013), and I hereby sell assign and set over to the
ASSIGNEE, its	s 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 ap	opplications claiming benefit of the filing date hereof, continuations, continuations-in-part divisionals
reexaminations a	and reissue applications.
And Thereby ag	gree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers.
including applie	ations for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental
organizations, ar	nd to perform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives
may deem neces	sary to secure thereto the rights herein sold, assigned and set over.
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And I hereby rep	present and warrant that I have not granted any rights inconsistent with the rights granted herein.
i hereby acknow	ledge 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	OFINVENTOR
Inventor: <u>Jo</u>	oseph S. Witek Date: 11/26/13
Signature: <u>C</u>	
orginature.	
Note: An Applica	ntion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.
Jse an additional o	declaration form for each additional inventor.

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-16.	Attorney Docket Number	83333298
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Please direct all correspondence to: 28866 ASSIGNMENT AND DECLARATIO ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

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This declaration is	s directe	POWER SUPPLY C	PERAILUNS		
X	The att	ached application, or States application or PC	Tinternational application number filed on		
The above-identif	ied app	ication was made or auti	horized to be made by me.		
I hereby state that including the claim		e/reviewed and understa	and the contents of the specification	in the above-iden	tified application,
I believe that I am	the ori	ginal inventor or an origi	inal joint inventor of a claimed inventi-	on in the application)n;
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FORD GLOBAL of the State of D hereinafter referre interest, domestic of the ASSIGNER for the inventions name or names, o insert the serial/a 14/104082 ASSIGNEE, its applications, in ar	TECHI elaware ed to as and for 3, its su and dis r. in my applicat success id to the lication	NOLOGIES, LLC, a Form, having its principal plathe ASSIGNEE, its successors, assigns or other coveries in any and all control of the invention number and filing. The principal of the inventions and discovered in the inventions and discovered inventions and discovered inventions and discovered in the inventions and discovered in the invention in the inventi	re made or by contractual obligation, d Motor Company subsidiary, organizate of business at Dearborn, County occasions, assigns or other legal representations and discoveries in the above-ide or legal representatives to make application (and I hereby authorize the ASSI date of the application to receive 2-Dec-2013), and I here legal representatives, all rights of pries in any and all countries, entities at the filing date hereof, continuations.	ed and existing by of Wayne, and Sentatives, the enti- entified invention in cations and to receital organizations, IGNEE or ASSIGI Letters Patent heby sell, assign an oriority, including and intergovernme	virtue of the laws tate of Michigan, are right, title and including the right ive Letters Patent in its or their own NEE's attorney to erein: Serial No. and set over to the any provisional intal organizations
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or imprisonment of	of not m	ore than five (5) years or	ment made in this declaration is punish both.	hable under 18 U.	S.C. 1001 by fine
LEGAL NAME C Inventor: Eri		ENTOR (ademacher	Bit.	19/5/13	The second secon
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ASSIGNMENT AND DECLARATION (37 C.F.R, 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Hue of Invention	POWER SUPPLY OPERATIONS			
This declaration is directed to:				
United	States application or PCT international application number			
The above-identified app	lication was made or authorized to be made by me.			
I hereby state that I have including the claims.	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 or	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. 14/104082 , Filing Date 12-Dec-2013 , 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.				
including applications for organizations; and to per	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, in 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 ecure thereto the rights herein sold, assigned and set over:			
And I hereby represent a	nd warrant that I have not granted any rights inconsistent with the rights granted herein.			
or imprisonment of not n	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine note than five (5) years or both.			
LEGAL NAME OF INV Inventor: John T. I	ENTOR Bremmer Date: 12/12/13			
Signature:	Mi & Beumer			
Note: An Application Data Use an additional declaration	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.			

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ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

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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.				
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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 law 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 14/104082				
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 intergovernmenta 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: Hafiz S. Khafagy Date: 11/25/20/3				
Signature: APARS				
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.				

Please direct all correspondence to: 28866

Attorney Docket Number	83333298	

ASSIGNMENT AND DECLARATION (37 C.F.R. 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76)

Title of Invention	ELECTRIC MOTOR CONTROL DURING UNRELIABLE					
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This declaration is directed to:						
X The at	,					
The above-identified app	olication 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.						
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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. 14/104082 , Filing Date 12-Dec-2013 , 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 INVENTOR Inventor: Zeliko Deljevic Date: 26 Nov 2013						
Signature: Signature: No. 1 (1)						
Note: An Application Data Sheet (PYC/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional decoration form for each additional inventor.						
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PATENT REEL: 031770 FRAME: 0151

RECORDED: 12/12/2013