505481876 05/17/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5528680

SUBMISSION TYPE:		NEW ASSIGNMENT	
ATURE OF CONVEYAN	CE:		
CONVEYING PARTY DA	TA		
		Name	Execution Date
BADER M. BADREDDINI	Ε		05/02/2019
MATTHEW ALLAN HERE	RMANN		05/14/2019
AHMAD HAZIME			05/02/2019
JUNGHOON KIM			05/02/2019
YUQING TANG			05/02/2019
	ГА		
Name:		GLOBAL TECHNOLOGIES, LLC	
Street Address:	330 TOWN CENTER DRIVE		
Internal Address:	FAIRLA	NE PLAZA SOUTH, SUITE 800	
City:	DEARBORN		
State/Country:	MICHIGAN		
Postal Code:	48126		
	Total: 1	Number	
Property Type		Number 16414623	
Property Type Application Number:			
Property Type Application Number: CORRESPONDENCE D/	ATA	16414623	
Property Type Application Number: CORRESPONDENCE D/ Fax Number: Correspondence will be	ATA e sent to	16414623 (313)322-7162 • the e-mail address first; if that is uns	
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Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone:	ATA e sent to provided	16414623 (313)322-7162 • <i>the e-mail address first; if that is uns</i> <i>I; if that is unsuccessful, it will be sen</i>	
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Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1:	ATA e sent to provided	16414623 (313)322-7162 <i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER	
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA e sent to rovided	16414623 (313)322-7162 <i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR	
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA e sent to rovided	16414623 (313)322-7162 <i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER	
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provided	16414623 (313)322-7162 <i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR	
Application Number: CORRESPONDENCE D/ Fax Number: Correspondence will be	ATA e sent to provided	16414623 (313)322-7162 (<i>the e-mail address first; if that is uns</i> <i>; if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MICHIGAN 48075-1238	
Property Type Application Number: CORRESPONDENCE DA Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provided	(313)322-7162 (313)322-7162 (<i>the e-mail address first; if that is uns</i> <i>if that is unsuccessful, it will be sen</i> 2483584400 glorenzen@brookskushman.com BROOKS KUSHMAN P.C. 1000 TOWN CENTER TWENTY-SECOND FLOOR SOUTHFIELD, MICHIGAN 48075-1238 84132699	

Total Attachments: 5	
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Please direct all correspondence to: 28395

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Attorney Docket Number 84132699

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	CONTROL PROCESSOR UNIT (CPU) ERROR DETECTION BY ANOTHER CPU VIA COMMUNICATION BUS
This declaration is direct	ed to:
United	tached application, or I States application or PCT international application number filed on, (I hereby authorize the insertion of the application filing date and hen they become known.)
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I have including the claims.	re reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part app	o disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for dications, material information which became available between the filing date of the prior nal or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its si for the inventions and di name or names, or in my insert the serial/applica <u>16/414623</u> ASSIGNEE, its succes applications, in and to th	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, s 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 a name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No, Filing DateMay 16, 2019), and I hereby sell, assign and set over to the sors, assigns or other legal representatives, all rights of priority, including any provisional te inventions and discoveries in any and all countries, entities and intergovernmental organizations, in scalaming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, ue applications.
including applications for organizations, and to per	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental rform 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.
	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	
Signature:	

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: 049210 FRAME: 0473

Attorney Docket Number 84132699

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		PROCESSOR CPU VIA COMM				DETECTION	ВҮ
This declaration is direct		<u></u>				·····	
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.)					nte and		
The above-identified app	olication was mad	e or authorized to be n	nade by m	e.			
I hereby state that I has including the claims.	ve reviewed and	understand the conter	nts of the	specificatio	on in the abo	we-identified appli	cation,
I believe that I am the or	iginal inventor or	an original joint inven	ntor of a cl	aimed inve	ntion in the a	pplication.	
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 employi FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and for of the ASSIGNEE, its s for the inventions and di name or names, or in my insert the serial/applica 16/414623 ASSIGNEE, its success applications, in and to the including all application reexaminations and reisss And I hereby agree for	NOLOGIES, LLO e, having its prin s the ASSIGNEH reign, in and to the accessors, assigns scoveries in any a name, at its or t tion number and , Filing Da sors, assigns or the inventions and ns claiming bene ue applications.	C, a Ford Motor Comp acipal place of busines by its successors, assign the inventions and disc s or other legal repress and all countries, entit heir election (and I he d filing date of the ate May 16, 2019 other legal represen discoveries in any and efit of the filing data	any subsi ss at Dear ns or othe overies in entatives t ies and in reby autho applicatio tatives, al d all count e hereof, r other leg	diary, organ born, Cour er legal rep the above- o make app tergovernm orize the At n to receir), and I I II rights of tries, entitie continuation gal represen	nized and exis ity of Wayne presentatives, identified inv plications and cental organiz SSIGNEE or ve Letters P hereby sell, a f priority, in s and intergo ons, continua	sting by virtue of the s, and State of Mic the entire right, the rention including the l to receive Letters ations, in its or the ASSIGNEE's attor atent herein: Serie assign and set over acluding any prov- overnmental organiz- tions-in-part, divis	the laws thigan, the and e right Patent ir own mey to al No. to the isional zations ionals, 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 live (5) years or both.							
LEGAL NAME OF INV					~~ /	Coila su	
Inventor: <u>Matthew</u>	Allan Herrmann	·····		Date	× <u>05/</u>	14/2014	
Signature: M	ithe a	Henne					••••••
Note: An Application Dat Use an additional declaration	a Sheet (PTO/SB/1	4 or equivalent), includi	ng naming	the entire in	wentive entity,	must accompany thi	s form.

PATENT REEL: 049210 FRAME: 0474

Attorney Docket Number 84132699

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	CONTROL PROCESSOR ANOTHER CPU VIA COMM		DETECTION BY	
This declaration is directed	ed to:			
United	tached application, or I States application or PCT internationa filed on (I here hen they become known.)	al application number by authorize the insertion of the a	application filing date and	
The above-identified app	lication was made or authorized to be	made by me.		
I hereby state that I have including the claims.	ve reviewed and understand the conte	ents of the specification in the abo	ove-identified application,	
I believe that I am the ori	iginal inventor or an original joint inve	ntor of a claimed invention in the a	application.	
continuation-in-part app	o disclose information which is material lications, material information which nal or PCT international filing date of t	h became available between the	filing date of the prior	
FORD GLOBAL TECHI of the State of Delaward hereinafter referred to as interest, domestic and fo of the ASSIGNEE, its su for the inventions and di name or names, or in my insert the serial/applicati 16/414623 ASSIGNEE, its success applications, in and to th including all application reexaminations and reisse And I hereby agree for n including applications for organizations, and to per	nent agreement heretofore made or by NOLOGIES, LLC, a Ford Motor Com e, having its principal place of busine s the ASSIGNEE, its successors, assi reign, in and to the inventions and disc uccessors, assigns or other legal repress scoveries in any and all countries, enti- v name, at its or their election (and I h tion number and filing date of the , Filing Date <u>May 16, 2019</u> sors, assigns or other legal represen- te inventions and discoveries in any ar- ns claiming benefit of the filing da- ue applications. myself, my heirs, successors, assigns for Letters Patent of any and all kinds rform any and all acts which the ASSI ecure thereto the rights herein sold, ass	pany subsidiary, organized and exi ess at Dearborn, County of Wayn gns or other legal representatives, coveries in the above-identified im- sentatives to make applications and ities and intergovernmental organiz- ereby authorize the ASSIGNEE or application to receive Letters I), and I hereby sell, a ntatives, all rights of priority, i ad all countries, entities and interga- te hereof, continuations, continua- or other legal representatives to ex- and in any and all countries, entit IGNEE, its successors, assigns or	isting by virtue of the laws ie, and State of Michigan, the entire right, title and vention including the right d to receive Letters Patent zations, in its or their own r ASSIGNEE's attorney to Patent herein: Serial No. assign and set over to the ncluding any provisional overnmental organizations ations-in-part, divisionals, execute any and all papers, ies and intergovernmental	
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 Inventor:Ahmad_H		Date: 5/	2/2019	
Signature: Ame		2		
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	a Sheet (PTO/SB/14 or equivalent), includ on form for each additional inventor.	ling naming the entire inventive entity	, must accompany this form.	

PATENT REEL: 049210 FRAME: 0475

Attorney Docket Number | 84132639

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	CONTROL PROCESSOR UNIT (CPU) ERROR DETECTION BY			
This declaration is direct				
This accuration is unce-				
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				
	hen they become known.)			
The above-identified app	ofication was made or authorized to be made by me.			
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And I hereby represent a	nd 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 punishably under 3 U.S.C. 1001 by fine or imprisonment of not more than five (5) years or both.				
LEGAL NAME OF INV Inventor: <u>Junghoor</u>				
Signature:	2437-			
anguarance				
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.			

PATENT REEL: 049210 FRAME: 0476

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Please direct all correspondence to: 28395

Attorney Docket Number \$4132699

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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	CONTROL PROCESSOR UNIT (CPU) ERROR DETECTION BY ANOTHER CPU VIA COMMUNICATION BUS
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I believe that I am the or	iginal inventor or an original joint inventor of a claimed invention in the application.
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FORD GLOBAL TECH of the State of Delawar hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its so for the inventions and di name or names, or in my insert the serial/applica 16/414623 ASSIGNEE, its succes applications, in and to th	ment 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, s 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 uccessors, 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 y name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to tion number and filing date of the application to receive Letters Patent herein: Serial No
including applications for organizations, and to per-	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, or Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental rform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives recure 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 nore than five (5) years or both.
LEGAL NAME OF INV Inventor: Yuging 1	
Signature:	· Yugong Tang
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, in form for each additional inventor.

PATENT REEL: 049210 FRAME: 0477

RECORDED: 05/17/2019

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