# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6742805

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
YUNFEILONG	06/01/2021
DANIEL MORRIS	05/25/2021
XIAOMING LIU	06/01/2021
MARCOS PAUL GERARDO CASTRO	05/26/2021
PRAVEEN NARAYANAN	05/26/2021
PUNARJAY CHAKRAVARTY	05/26/2021

## **RECEIVING PARTY DATA**

Name:	FORD GLOBAL TECHNOLOGIES, LLC
Street Address:	330 TOWN CENTER DRIVE
Internal Address:	SUITE 800 SOUTH
City:	DEABORN
State/Country:	MICHIGAN
Postal Code:	48126
Name:	BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY
Name: Street Address:	BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY  426 AUDITORIUM ROAD
Street Address:	426 AUDITORIUM ROAD
Street Address: Internal Address:	426 AUDITORIUM ROAD HANNAH ADMINISTRATION BLDG., ROOM 110

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17337664

## **CORRESPONDENCE DATA**

**Fax Number:** 

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:** 313-528-4882

Email: docket@b2iplaw.com

Correspondent Name: BEJIN BIENEMAN PLC FORD GLOBAL TECHNOLOG

Address Line 1: 2000 TOWN CENTER

**PATENT** 

506695987 REEL: 056427 FRAME: 0613

Address Line 2: SUITE 800

Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	84373491TEC20210063014021
NAME OF SUBMITTER:	BRYAN T. HART
SIGNATURE:	/Bryan T. Hart/
DATE SIGNED:	06/03/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).

#### **Total Attachments: 6**

source=84373491-TEC2021-0063-01-Signed-Combined-Declaration-and-Assignment-with filing info (65080-4021)#page1.tif

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additional declaration form for each additional inventor

Attorney Docket Number 8437 3491 TEC 2021 00(340165080 4021)

**PATENT REEL: 056427 FRAME: 0615** 

# 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 DEPTH MAP GENERATION	
This declaration is directed to	
The attached application, or United States application or PCT international application number 17/337,664filed on Jun 3, 2021(I hereby authorize the insertion of this form when they become known)	of the application filing date and number into
The above-identified application was made or authorized to be made by me	
Thereby state that I have reviewed and understand the contents of the specification in the claims.	he above identified application, including the
I believe that I am the original inventor or an original joint inventor of a claimed invent	nown the application
Lant aware of the dids in disclose information which is material to parentability a continuation in part applications, material information which became available between national or PCT international filing date of the continuation in-part application.	
Pursuant to my employment agreement heretofore made or by contractual obligation GORAL TECHNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and Delaware, having its principal place of business at Dearborn, County of Waynes PRESTEES OF MICHIGAN STATE UNIVERSITY, organized and existing by situated as principal place of business at Hannath Administration Bldg., 426 Auditorium Road 2602, hereinafter referred to as the ASSIGNEES, its successors assigns or other legitierest, domestic and foreign, in and to the inventions and discoveries in the above of ASSIGNEES, its successors assigns or other legal representatives to make applications and discoveries in any and all countries entities and intergovernmental organism may name at its or their election (and I hereby authorize the ASSIGNEE senal/application number and filing date of the application to received and application number and filing date of the application to received and applications claiming benefit of the filing date hereof, continuations continuations in applications claiming benefit of the filing date hereof, continuations continuations in applications.	existing by virtue of the laws of the Stac of and State of Michigan, and BOARD OF of the laws of the State of Delaware, having Room 110, East Lansing, Michigao 48824-gal representatives, the cause right ritle and dentified invention including the right of the ations and to receive Letters Patent for the inizations in its or their own name or names. Sort ASSIGNEES, attorney to insert the see Letters, Patent, herein, Serial, No. I hereby self, assign and see over to the its including any provisional applications in tergovernmental organizations, including all
And I hereby agree for myself, my heirs, successors, assigns or other legal represental applications for Letters Patent of any and all kinds and in any and all countries, entities perform any and all acts which the ASSIGNEES, its successors, assigns or other I ecure thereto the rights begein sold, assigned and set over.	sand intergoremmental organizations, and or
and Thereby represent and warrant that I have not granted any rights inconsistent with	) the rights granted herem.
hereby acknowledge that any willful false statement made in this declaration is proposition of not more than five (5) years or both.  EGAL NAME OF INVENTOR	numshable under 18 U.S.C. 1001 by fine of
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Attorney Docket Number 84373491-TEC2021-0063-01(65080-4021)

# 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)

**DEPTH MAP GENERATION** 

This declaration i	s directed to:
	The attached application, or United States application or PCT international application number 17/337,664 filed on Jun 3, 2021. (I hereby authorize the insertion of the application filing date and number into
this form when th	ney become known.)
The above-identif	fied application was made or authorized to be made by me.
I hereby state that claims.	t I have reviewed and understand the contents of the specification in the above-identified application, including the
I believe that I an	the original inventor or an original joint inventor of a claimed invention in the application.
continuation-in-p	ne duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for art applications, material information which became available between the filing date of the prior application and CT international filing date of the continuation-in-part application.
GLOBAL TECH Delaware, having TRUSTEES OF M its principal place 2602, hereinafter interest, domestic ASSIGNEES, its inventions and dis or in my name, serial/application 17/337,664 ASSIGNEES, its and to the invertional applications claim applications.	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD NOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of g its principal place of business at Dearborn, County of Wayne, and State of Michigan, and BOARD OF MICHIGAN STATE UNIVERSITY, organized and existing by virtue of the laws of the State of Delaware, having the of business at Hannah Administration Bldg., 426 Auditorium Road, Room 110, East Lansing, Michigan 48824-referred to as the ASSIGNEES, its successors, assigns or other legal representatives, the entire right, title and and foreign, in and to the inventions and discoveries in the above-identified invention including the right of the successors, assigns or other legal representatives to make applications and to receive Letters Patent for the scoveries in any and all countries, entities and intergovernmental organizations, in its or their own name or names, at its or their election (and I hereby authorize the ASSIGNEES or ASSIGNEES' attorney to insert the number and filing date of the application to receive Letters Patent herein: Serial No.
applications for L perform any and	ee for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including letters Patent of any and all kinds and in any and all countries, entities and intergovernmental organizations, and to all acts which the ASSIGNEES, its successors, assigns or other legal representatives may deem necessary to rights herein sold, assigned and set over.
And I hereby repr	resent and warrant that I have not granted any rights inconsistent with the rights granted herein.
imprisonment of	ledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or not more than five (5) years or both.
LEGAL NAME (Inventor:	DEFINVENTOR Daniel Morris Date:  5/25/21
Signature:	DA A
	tion Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an
additional declaration	on form for each additional inventor.  PATENT

REEL: 056427 FRAME: 0616

Attorney Docket Number

84373491-TEC2021-0063-01(65080-4021)

# 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)

**DEPTH MAP GENERATION** 

This declaration	is directed to:		
this form when the	The attached application, or United States application or PCT in 17/337,664 filed on Jun 3, 2021. (they become known.)		the application filing date and number into
The above-identi	ified application was made or authori	zed to be made by me.	
I hereby state that claims.	at I have reviewed and understand the	contents of the specification in the	e above-identified application, including the
I believe that I ar	m the original inventor or an original	joint inventor of a claimed invention	on in the application.
continuation-in-p		n which became available between	s defined in 37 C.F.R. 1.56, including for the filing date of the prior application and
GLOBAL TECH Delaware, havin TRUSTEES OF its principal place 2602, hereinafter interest, domesti ASSIGNEES, its inventions and dor in my name serial/application	HNOLOGIES, LLC, a Ford Motor Cong its principal place of business a MICHIGAN STATE UNIVERSITY concerns to the state of business at Hannah Administrator referred to as the ASSIGNEES, its ite and foreign, in and to the invention as successors, assigns or other legal discoveries in any and all countries, error, at its or their election (and I han number and filing date of	ompany subsidiary, organized and ext Dearborn, County of Wayne, as, organized and existing by virtue of the county of Bldg., 426 Auditorium Road, as successors, assigns or other legans and discoveries in the above-ide representatives to make application and intergovernmental organisereby authorize the ASSIGNEES the application to receive	I do sell, assign and set over unto <u>FORD</u> existing by virtue of the laws of the State of and State of Michigan, and <u>BOARD OF</u> of the laws of the State of Delaware, having Room 110, East Lansing, Michigan 48824-ul representatives, the entire right, title and entified invention including the right of the ions and to receive Letters Patent for the nizations, in its or their own name or names, S or ASSIGNEES' attorney to insert the electron Letters Patent herein: Serial No. hereby sell, assign and set over to the
ASSIGNEES, its and to the inve	s successors, assigns or other legal re- entions and discoveries in any and	epresentatives, all rights of priority all countries, entities and inter	r, including any provisional applications, in regovernmental organizations including all part, divisionals, reexaminations and reissue
applications for l perform any and	Letters Patent of any and all kinds and	d in any and all countries, entities a ts successors, assigns or other leg	ves to execute any and all papers, including and intergovernmental organizations, and to gal representatives may deem necessary to
And I hereby rep	present and warrant that I have not gra	anted any rights inconsistent with the	he rights granted herein.
imprisonment of	f not more than five (5) years or both.	ent made in this declaration is pu	nishable under 18 U.S.C. 1001 by fine or
LEGAL NAME Inventor:	OF INVENTOR Xiaoming Liu	Date:	6/1/2021
Signature:	Alaoning Liu		
	ation Data Sheet (PTO/SB/14 or equivaletion form for each additional inventor.	ent), including naming the entire inver	ntive entity, must accompany this form. Use an

This declaration is directed to:

Attorney Docket Number 84373491-TEC2021-0063-01(650800-4021)

# 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)

**DEPTH MAP GENERATION** 

⊠ ⊠ number into this t	The attached application, or United States application or PCT internat 17/337,664 filed on Jun 3, 2021. (I I form when they become known.)	* *	of the application filing date and
	fied application was made or authorized to	be made by me.	
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hereby state the ncluding the clai	at I have reviewed and understand the coims.	ontents of the specification in	n the above-identified application,
believe that I an	n the original inventor or an original joint i	nventor of a claimed invention	n in the application.
ontinuation-in-p	e duty to disclose information which is ma part applications, material information we he national or PCT international filing date	hich became available betw	veen the filing date of the prior
FORD GLOBAL of the State of Do BOARD OF TRU of Delaware, have Lansing, Michig epresentatives, to above-identified make application intergovernmenta authorize the ASS or receive Letter and I hereby sell, priority, including intergovernmenta	employment agreement heretofore made of TECHNOLOGIES, LLC, a Ford Motor Celaware, having its principal place of busing USTEES OF MICHIGAN STATE UNIVERING its principal place of business at Hannagan 48824-2602, hereinafter referred to the entire right, title and interest, domestic invention including the right of the ASSI as and to receive Letters Patent for the irral organizations, in its or their own name SIGNEE or ASSIGNEE's attorney to insense Patent herein: Serial No. 17/337,66, assign and set over to the ASSIGNEE, it grap provisional applications, in and to the all organizations including all application part, divisionals, reexaminations and reissure.	ompany subsidiary, organized ness at Dearborn, County of Version o	I and existing by virtue of the laws Vayne, and State of Michigan, and g by virtue of the laws of the State Auditorium Road, Room 110, East ccessors, assigns or other legal inventions and discoveries in the is or other legal representatives to any and all countries, entities and its or their election (and I hereby er and filing date of the application to June 3, 2021), regal representatives, all rights of any and all countries, entities and
ncluding applica organizations, an	ree for myself, my heirs, successors, assigntions for Letters Patent of any and all kind to perform any and all acts which the Asary to secure thereto the rights herein sold.	ds and in any and all country SSIGNEE, its successors, ass	ies, entities and intergovernmental
And I hereby repr	resent and warrant that I have not granted a	my rights inconsistent with the	e rights granted herein.
•	ledge that any willful false statement mad of not more than five (5) years or both.	e in this declaration is punish	able under 18 U.S.C. 1001 by fine
LEGAL NAME (	OF INVENTOR		5/26/2021
nventor: <u>M</u>	Iarcos Paul Gerardo Castro	Date:	
Signature:			
	tion Data Sheet (PTO/SB/14 or equivalent), in leclaration form for each additional inventor.	cluding naming the entire invent	ive entity, must accompany this form.
			PATENT

**REEL: 056427 FRAME: 0618** 

**DEPTH MAP GENERATION** 

Attorney Docket Number 84373491-TEC2021-0063-01(650800-4021)

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$\boxtimes$		application number y authorize the insertion of the application filing date	and
number into this	s form when they become known.)		
The above-ident	tified application was made or authorized to be m	ade by me.	
I hereby state to including the cla		ts of the specification in the above-identified applicat	tion,
I believe that I a	nm the original inventor or an original joint invent	tor of a claimed invention in the application.	
continuation-in-		to patentability as defined in 37 C.F.R. 1.56, including became available between the filing date of the percontinuation-in-part application.	
FORD GLOBA of the State of I BOARD OF TR of Delaware, ha Lansing, Michi representatives, above-identified make application intergovernment authorize the Astoreceive Letter and I hereby selpriority, including intergovernment continuations-in And I hereby as	L TECHNOLOGIES, LLC, a Ford Motor Compace Delaware, having its principal place of business at RUSTEES OF MICHIGAN STATE UNIVERSITY ving its principal place of business at Hannah Adagan 48824-2602, hereinafter referred to as to the entire right, title and interest, domestic and invention including the right of the ASSIGNE ones and to receive Letters Patent for the inventional organizations, in its or their own name or na SSIGNEE or ASSIGNEE's attorney to insert the ters Patent herein: Serial No. 17/337,664 and provisional applications, in and to the inventional organizations including all applications classifications including all applications classifications, reexaminations and reissue appropers of the myself, my heirs, successors, assigns or gree for myself, my heirs, successors, assigns or	ecessors, assigns or other legal representatives, all right entions and discoveries in any and all countries, entities aiming benefit of the filing date hereof, continuati- plications.	laws and State East egal the es to and reby ation
organizations, a		nd in any and all countries, entities and intergovernme GNEE, its successors, assigns or other legal representational gned and set over.	
And I hereby rep	present and warrant that I have not granted any rig	ghts inconsistent with the rights granted herein.	
•	wledge that any willful false statement made in the tof not more than five (5) years or both.	his declaration is punishable under 18 U.S.C. 1001 by	fine
	OF INVENTOR Praveen Narayanan	Date: 5/26/21	
	Praveen Narayanan	Datc.	
Signature:	<u> </u>		
	ation Data Sheet (PTO/SB/14 or equivalent), including declaration form for each additional inventor.	ng naming the entire inventive entity, must accompany this for	orm.

RECORDED: 06/03/2021

Attorney Docket Number | 84373491-TEC2021-0063-01(650800-4021)

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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 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 pricapplication 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 unterior of the State of Delaware, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, and BOARD OF TRUSTEES OF MICHIGAN STATE UNIVERSITY, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Hannah Administration Bldg., 426 Auditorium Road, Room 110, Ea Lansing, Michigan 48824-2602, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legarepresentatives, 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 the make applications and to receive Letters Patent for the inventions and discoveries in any and all countries, entities an intergovernmental organizations, in its or their own name or names, or in my name, at its or their election (and I hereb authorize the ASSIGNEE or ASSIGNEE's attorney to insert the serial/application number and filing date of the application receive Letters Patent herein: Serial No. 17/337,664 Filing Date June 3, 2021 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 an intergovernmental organizations including all applications claiming benefit of the filing date hereof, continuation 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 paper including applications for Letters Patent of any and all kinds and in any and all countries, entities and intergovernment organizations, and to perform any and all acts which the ASSIGNEE, its successors, assign
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 fir or imprisonment of not more than five (5) years or both.
LEGAL NAME OF INVENTOR
Inventor: Punarjay Chakravarty Date: 05/24/21
Signature: Pin US
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this forr Use an additional declaration form for each additional inventor.