### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5935963

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
FRANCO LEONARDI	01/28/2020
MICHAEL W. DEGNER	01/28/2020
PRASAD DEV HANUMALAGUTTI	01/28/2020
MYUNG KI SUNG	01/28/2020

#### **RECEIVING PARTY DATA**

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

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

Property Type	Number
Application Number:	16775927

#### **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.

Phone: 248-358-4400

Email: kgrand@brookskushman.com **BROOKS KUSHMAN P.C./FGTL Correspondent Name:** 

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Address Line 2: 22ND FLOOR

Address Line 4: SOUTHFIELD, MICHIGAN 48075-1238

ATTORNEY DOCKET NUMBER:	FMC9682PUS 84227166
NAME OF SUBMITTER:	TODD W. DISHMAN
SIGNATURE:	/Todd W. Dishman/
DATE SIGNED:	01/29/2020
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**Total Attachments: 4** 

**PATENT** REEL: 051660 FRAME: 0974

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Please	direct	all	corresponde	nce to:	28395
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Attorney Docket Number	84227166

### 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	THERMAL MANAGEMENT ASSEMBLY FOR AN ELECTRIFIED VEHICLE
This declaration is directed	
X The att	ached application, or States application or PCT international application number
number into this form wh	filed on (I hereby authorize the insertion of the application filing date and en they become known.)
The above-identified app	lication was made or authorized to be made by me.
I hereby state that I havincluding 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.
continuation-in-part app	disc ose 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 all or PCT international filing date of the continuation-in-part application.
FORD GLOBAL TECHI of the State of Delaward hereinafter referred to as interest, domestic and for of the ASSIGNEE, its suffor the inventions and disname or names, or in my insert the serial/applicat 16/775,927  ASSIGNEE, its success applications, in and to the including all application reexaminations and reissues.  And I hereby agree for rincluding applications for organizations, and to per	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, 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 eign, in and to the inventions and discoveries in the above-identified invention including the right coessors, assigns or other legal representatives to make applications and to receive Letters Patent acoveries 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 ion number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date January 29, 2020 ), and I hereby sell, assign and set over to the ors, assigns or other legal representatives, all rights of priority, including any provisional inventions and discoveries in any and all countries, entities and intergovernmental organizations sclaiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, the applications.  Anyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, and 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 form any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives form thereto the rights herein sold, assigned and set over.
•	d warrant that I have not granted any rights inconsistent with the rights granted herein.
or imprisonment of not m	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine ore than five (5) years or both.
LEGAL NAME OF INV	
Inventor: Franco Le	onardi Date: 1-28-2020
Signature:	
	Shee (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Please direct all correspondence to: 28395

Attorney Docket Number	84227166

### 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	THERMAL VEHICLE	MANAGEMENT	ASSEMBLY	FOR A	AN ELECTRIFIED
This declaration is directed	ed to:				
3.7 (77)					
	tached application		ie i i		
		n or PCT international ap		ian af tha a	nuliantian filing data and
number into this form wh	en they become k	mown.)	aumonze me mseru	ion of the a	pplication filing date and
The above-identified app	lication was made	or authorized to be mad	le by me.		
I hereby state that I havincluding the claims.	e reviewed and u	understand the contents	of the specification	in the abo	ve-identified application,
I believe that I am the ori	ginal inventor or	an original joint inventor	of a claimed inven	tion in the a	pplication.
	lications, materia	l information which be	ecame available be	etween the	C.F.R. 1.56, including for filing date of the prior
FORD GLOBAL TECHY of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its sufor the inventions and disname or names, or in my insert the serial/applicated 16/775,927  ASSIGNEE, its success applications, in and to the including all application reexaminations and reissuand I hereby agree for rincluding applications fo	NOLOGIES, LLC e, having its prine is the ASSIGNEE, reign, in and to th accessors, assigns scoveries in any a mame, at its or th tion number and , Filing Dat sors, assigns or e inventions and as claiming bene ue applications.  myself, my heirs, or Letters Patent of form any and all	c, a Ford Motor Company cipal place of business at the inventions and discovered or other legal representated all countries, entities their election (and I hereby the January 29, 20 other legal representated discoveries in any and all the filing date of the successors, assigns or of any and all kinds and acts which the ASSIGN	y subsidiary, organiat Dearborn, Count or other legal represents in the above-ic atives to make apple and intergovernme by authorize the ASI plication to received. (a) and I have, all rights of all countries, entities hereof, continuation other legal represent in any and all countries, its successors,	zed and exis y of Wayne esentatives, lentified inv ications and intal organiz SIGNEE or e Letters P ereby sell, a priority, in and intergo is, continua- tatives to ex intries, entiti	assign and set over unto sting by virtue of the laws and State of Michigan, the entire right, title and ention including the right to receive Letters Patent ations, in its or their own ASSIGNEE's attorney to atent herein: Serial No. ssign and set over to the reluding any provisional overnmental organizations tions-in-part, divisionals, ecute any and all papers, es and intergovernmental other legal representatives
And I hereby represent ar	nd warrant that I h	nave not granted any righ	its inconsistent with	the rights g	ranted herein.
I hereby acknowledge the or imprisonment of not m			s declaration is pun	ishable unde	er 18 U.S.C. 1001 by fine
LEGAL NAME OF INV	ENTOR			1/2	0/000
Inventor: Michael V	W. Degner		Date:	1/22	5/2020
Signature:	chal T	1/ Degne	<b>L</b>	/	
		<i>U</i>			·
Note: An Application Data			naming the entire inv	entive entity,	must accompany this form.

Please	direct	all	corres	oonde	nce	to:	28395

Attorney Docket Number	84227166

## 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	THERMAL MANAGEMENT ASSEMBLY FOR AN ELECTRIFIED	
	VEHICLE	
This declaration is direct	ed to:	
	ached application, or	
United	States application or PCT international application number	
number into this form wh	filed on (I hereby authorize the insertion of the application filing date and len 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 ori	ginal inventor or an original joint inventor of a claimed invention in the application.	
I am aware of the duty to disc ose 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. 16/775,927		
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: Prasad De	v Hanumalagutti Date: 01-28-2020	
Signature: \(\sqrt{\sqrt{\acceptace}}\sqrt{\acceptace}\)	nd Per. It	
Note: An Application Date	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	84227166

# 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	THERMAL MANAGEMENT ASSEMBLY FOR AN ELECTRIFIED	
This declaration is directed to:		
	ached application, or 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 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 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 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. 16/775,927 , Filing Date January 29, 2020 , 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, and the proposed and intergovernmental discovernmental intergovernmental intergovernmental discovernmental discovernmenta		
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.		
· ·	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 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 $\sqrt{-28-1000}$	
Inventor: Myung K		
Signature:	<u> </u>	
Note: An Application Data Shest (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: 051660 FRAME: 0979

**RECORDED: 01/29/2020**