#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5591236

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HANS GUENTER QUIX	06/21/2019
CLAUDIA KATHARINA HERUDEK	06/21/2019
FLORIAN HUTH	06/26/2019
ANDREAS SCHMITT	06/21/2019
DAVID VAN BEBBER	06/24/2019

#### **RECEIVING PARTY DATA**

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

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

Property Type	Number
Application Number:	16452711

#### **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:** 616-949-9610

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Correspondent Name: PRICE HENEVELD LLP KEVIN T. GRZELAK

Address Line 1:695 KENMOOR S.E.Address Line 2:P. O. BOX 2567

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ATTORNEY DOCKET NUMBER:	84170721
NAME OF SUBMITTER:	KEVIN T. GRZELAK
SIGNATURE:	/Kevin T. Grzelak/
DATE SIGNED:	06/26/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT 49590 FRAME: 0455

505544439 REEL: 049590 FRAME: 0455

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Title of Invention	HEATING SYSTEM AND METHOD FOR H A VEHICLE AND MOTOR VEHICLE	EATING THE INTERIOR OF
This declaration is directed	ed to:	
United	ached application, or States application or PCT international application number filed on (I hereby authorize the insertent they become known.)	tion of the application filing date and
number into this form wh	en 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.	e reviewed and understand the contents of the specification	on in the above-identified application,
I believe that I am the ori	ginal inventor or an original joint inventor of a claimed inve	ntion in the application.
continuation-in-part app	o disclose information which is material to patentability as discations, material information which became available had or PCT international filing date of the continuation-in-particle.	between the filing date of the prior
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 di name or names, or in my insert the serial/applicas  ASSIGNEE, its success applications, in and to th including all application reexaminations and reissues.  And I hereby agree for its	nent agreement heretofore made or by contractual obligation NOLOGIES, LLC, a Ford Motor Company subsidiary, organic, having its principal place of business at Dearborn, Course the ASSIGNEE, its successors, assigns or other legal representatives to make appropriate in any and all countries, entities and intergoverner name, at its or their election (and I hereby authorize the Astion number and filing date of the application to receingly. Filing Date	nized and existing by virtue of the laws aty of Wayne, and State of Michigan, presentatives, the entire right, title and identified invention including the right polications and to receive Letters Patent aental organizations, in its or their own SSIGNEE or ASSIGNEE's attorney to be Letters Patent herein: Serial No. hereby sell, assign and set over to the f priority, including any provisional and intergovernmental organizations ons, continuations-in-part, divisionals, and attives to execute any and all papers,
organizations, and to per	form any and all acts which the ASSIGNEE, its successors ecure thereto the rights herein sold, assigned and set over.	
And I hereby represent as	nd warrant that I have not granted any rights inconsistent wit	h the rights granted herein.
or imprisonment of not n	at any willful false statement made in this declaration is purpose than five (5) years or both.	nishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV Inventor: Hans Gue		24.06.49
Signature:	John State Community	
	Ob. (ADEC)(ID)(IA	72 34 A 3 A
	a Sheet (PTO/SB/14 or equivalent), including naming the entire in	ivenuve entity, must accompany this form.

Attorney Docket Nun	nber   84170721

Title of Invention	HEATING SYSTEM AND ME A VEHICLE AND MOTOR VI	ETHOD FOR HEATING THE INTERIOR OF								
This declaration is directed	<u> </u>	ETRICLE								
	tached application, or States application or PCT international	application number y authorize the insertion of the application filing date and								
The above-identified app	dication was made or authorized to be ma	nade by me.								
I hereby state that I have including the claims.	re reviewed and understand the content	ats of the specification in the above-identified application,								
I believe that I am the ori	ginal inventor or an original joint invent	tor of a claimed invention in the application.								
continuation-in-part app		l to patentability as defined in 37 C.F.R. 1.56, including for became available between the filing date of the prior the continuation-in-part application.								
FORD GLOBAL TECHL of the State of Delaward hereinafter referred to as interest, domestic and fo of the ASSIGNEE, its so for the inventions and di name or names, or in my insert the serial/applica  ASSIGNEE, its success applications, in and to the	NOLOGIES, LLC, a Ford Motor Compae, having its principal place of business is the ASSIGNEE, its successors, assign reign, in and to the inventions and discourcessors, assigns or other legal representation and a little control of the representation of the analysis of the legal representation of the legal representation of the legal representations, assigns or other legal representation in the same of the legal representation of the filing date of the filing date.	contractual obligation, I do sell, assign and set over unto any subsidiary, organized and existing by virtue of the laws are at Dearborn, County of Wayne, and State of Michigan, are or other legal representatives, the entire right, title and overies in the above-identified invention including the right entatives to make applications and to receive Letters Patent lies and intergovernmental organizations, in its or their own reby authorize the ASSIGNEE or ASSIGNEE's attorney to application to receive Letters Patent herein: Serial No.								
including applications for organizations, and to per	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 a	nd warrant that I have not granted any ri	ights inconsistent with the rights granted herein.								
	nat any willful false statement made in the nore than five (5) years or both.	this declaration is punishable under 18 U.S.C. 1001 by fine								
LEGAL NAME OF INV	ENTOR	Date: 21/06/2019								
Inventor: Claudia k	Katharina Herudek	Date: <u>&amp; \$7/\$6/\$U4/</u>								
Signature:	<u> a dans</u>									
	a Sheet (PTO/SB/14 or equivalent), including	ng naming the entire inventive entity, must accompany this form.								

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little of Invention	A VEHICLE AND MOTOR VEHICLE
This declaration is direct	
☐ 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 then they become known.)
The above-identified app	olication was made or authorized to be made by me.
I hereby state that I have including the claims.	ve 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 slications, 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 s for the inventions and di name or names, or in my insert the serial/applica	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, is the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and preign, in and to the inventions and discoveries in the above-identified invention including the right successors, 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.
ASSIGNEE, its succes applications, in and to the	Filing Date
including applications for organizations, and to pe	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 rform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives accure 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 r	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: <u>Florian I</u>	tuth Date: <u>7 6.75</u>
Signature:	4/4
	a 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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Attorney Docket Number	041/0/4	

Title of Invention	A VEHICLE AND MOTOR VEHICLE	
This declaration is directed to:		
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 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 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.		
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 A SOLO A S	
Inventor: Andreas	Schmitt Date: 201700/21	
Signature: \(\sigma\)\(\lambda\)\(\lambda\)		
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.		

**RECORDED: 06/26/2019** 

Attorney Docket Number	84170721

### 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 HEATING SYSTEM AND METHOD FOR HEATING THE INTERIOR OF		
A VEHICLE AND MOTOR VEHICLE		
This declaration is directed to:		
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 original inventor or an original joint inventor of a claimed invention in the application.		
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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.		
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: David yan Bebber Date:		
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.		