#### 506543712 03/09/2021

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6590490

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MICHAEL JOHN HARMON	02/09/2021
HUSSAIN ZOHER TAJMAHAL	02/09/2021
MARIELLE BEVERLY CONRAD	02/10/2021
YEJIN HAN	02/09/2021
DAVID EARL OOMS	02/09/2021
MICHAEL MOLITERNO	03/06/2021
ANDREW SMITH	02/11/2021

#### **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:	17195846

#### **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

**Email:** ptomail@priceheneveld.com

Correspondent Name: PRICE HENEVELD LLP /CAITLYN N. SILVERBLATT

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

Address Line 4: GRAND RAPIDS, MICHIGAN 49501-2567

ATTORNEY DOCKET NUMBER:	84328662
NAME OF SUBMITTER:	CAITLYN N. SILVERBLATT
SIGNATURE:	/Caitlyn N Silverblatt/

PATENT 506543712 REEL: 055531 FRAME: 0892

DATE SIGNED:	03/09/2021
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 7	
source=FOR2521_Declarations#page1.	tif
source=FOR2521_Declarations#page2.	tif
source=FOR2521_Declarations#page3.tif	
source=FOR2521_Declarations#page4.tif	
source=FOR2521_Declarations#page5.tif	
source=FOR2521_Declarations#page6.	tif
source=FOR2521_Declarations#page7.	tif

Attorney Docket Number	84328662

Title of Invention	VEHICLE	, AND AIR CONDITIONING UNIT FOR A
This declaration is directed to:		
United	tached application, or  States application or PCT internation filed on (I here then they become known.)	al application number by authorize the insertion of the application filing date and
The above-identified app	lication was made or authorized to be	made by me.
I hereby state that I havincluding the claims.	re reviewed and understand the conto	ents of the specification in the above-identified application
I believe that I am the ori	ginal inventor or an original joint inve	entor of a claimed invention in the application.
continuation-in-part app		al to patentability as defined in 37 C.F.R. 1.56, including for the became available between the filing date of the prior 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 sufor the inventions and diname or names, or in my insert the serial/applicated ASSIGNEE, its success applications, in and to the including all application reexaminations and reissu	NOLOGIES, LLC, a Ford Motor Come, having its principal place of busings the ASSIGNEE, its successors, assigneign, in and to the inventions and disaccessors, assigns or other legal repressoveries in any and all countries, enter name, at its or their election (and I have been a filling been been assigns or other legal represses in any and discoveries in any and all countries, enter name, at its or their election (and I have been assigns or other legal represses in any and all countries in any and all countries, enter the countries in any and all countries in any and all countries, enter the countries in any and all countries in an	by contractual obligation, I do sell, assign and set over unto a pany subsidiary, organized and existing by virtue of the laws ess at Dearborn, County of Wayne, and State of Michigan agns or other legal representatives, the entire right, title and acoveries in the above-identified invention including the right sentatives to make applications and to receive Letters Paternities and intergovernmental organizations, in its or their own ereby authorize the ASSIGNEE or ASSIGNEE's attorney to application to receive Letters Patent herein: Serial No.
including applications fo organizations, and to per	r Letters Patent of any and all kinds	and in any and all countries, entities and intergovernmental IGNEE, its successors, assigns or other legal representatives
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 nore than five (5) years or both.	this declaration is punishable under 18 U.S.C. 1001 by fine
LEGAL NAME OF INV	ENTOR	02/09/2021
·	ohn Harmon	Date:
Signature: /Michael H	larmon/	
Note: An Application Data	a Sheet (PTO/SB/14 or equivalent) inclu-	ding naming the entire inventive entity, must accompany this form
* *	n form for each additional inventor	5 - 5

Attorney Docket Number	84328662

Title of Invention   HEATING, VENTILATION, AND AIR CONDITIONING UNIT FOR A VEHICLE	Α
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 an number into this form when they become known.)	ıd
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.	n,
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 prical 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 unt 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 an 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 Pater 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.  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 organization including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisional reexaminations and reissue applications.	ws n, nd ht nt vn to o. ne al ns
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, assigns or other legal representative may deem necessary to secure thereto the rights herein sold, assigned and set over.	al
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.	1e
LEGAL NAME OF INVENTOR	
Inventor: Hussain Zoher Tajmahal Date: 02/09/2021	
Signature: /Hussain Z Tajmahal/	
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form	n
Use an additional declaration form for each additional inventor	

Attorney Docket Number	84328662

Title of Invention HEATING, VENTILATION, AND AIR CONDITIONING UNIT FOR A 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.
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. <u>Mariene Beverry Contrad</u> Date.
Signature: / Marielle Beverly Conrad /
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.

Attorney Docket Number	84328662

Title of Invention HEATING, VENTILATION, AND AIR CONDITIONING UNIT FOR A 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.
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: Yejin Han Date: 02/09/2021
Inventor: Yejin Han Date: 02/09/2021
Signature: 7/dm
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.

Attorney Docket Number	84328662

Title of Invention   HEATING, VENTILATION, AND AIR CONDITIONING UNIT FOR A 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 an 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 price 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 un 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 Michiga hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title ar interest, domestic and foreign, in and to the inventions and discoveries in the above-identified invention including the rig of the ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Pater 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 insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No., Filing Date
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, assigns or other legal representative 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: David Farl Ooms Date: 9 Feb 21
Inventor: David Earl Ooms Date: 9 Feb 21
Signature: /David Earl Ooms/
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

Attorney Docket Number	84328662

Title of Invention HEATING, VENTILATION, AND AIR CONDITIONING UNIT FOR A 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.
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: Michael Meliterne 3/6/2021
Inventor: Michael Moliterno Date: 3/0/2021 Signature: Date: 3/0/2021
Note: An Application Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.  Lie an additional declaration form for each additional inventor.

Please direct all correspondence to: 28415

	~																														

# 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, VENTILATION, AND AIR CONDITIONING UNIT FOR A VEHICLE
This declaration is direct	
Unite	attached application, or  ed States application or PCT international application number  filed on (I hereby authorize the insertion of the application filing date and when they become known.)
The above-identified ap	oplication was made or authorized to be made by me.
	ave reviewed and understand the contents of the specification in the above-identified application,
I believe that I am the o	riginal inventor or an original joint inventor of a claimed invention in the application.
continuation-in-part ap	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for optications, material information which became available between the filing date of the prior onal or PCT international filing date of the continuation-in-part application.
of the State of Delawa hereinafter referred to interest, domestic and f of the ASSIGNEE, its for the inventions and c name or names, or in m insert the serial/applic ASSIGNEE, its success applications, in and to t	Ament agreement heretofore made or by contractual obligation, I do sell, assign and set over unto HNOLOGIES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws are, having its principal place of business at Dearborn, County of Wayne, and State of Michigan, as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and foreign, 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 discoveries in any and all countries, entities and intergovernmental organizations, in its or their own my name, at its or their election (and I hereby authorize the ASSIGNEE or ASSIGNEE's attorney to action number and filing date of the application to receive Letters Patent herein: Serial No.  ———————————————————————————————————
including applications ( organizations, and to pe	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, for Letters Patent of any and all kinds and in any and all countries, entities and intergovernmental erform any and all acts which the ASSIGNEE, its successors, assigns or other legal representatives secure thereto the rights herein sold, assigned and set over.
And I hereby represent a	and warrant that I have not granted any rights inconsistent with the rights granted herein.
	hat any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine more than five (5) years or both.
LEGAL NAME OF INV	
Inventor: <u>Andrew</u> Signature: <u>(/</u>	mith Date: d/11/ala/
	ta Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form on form for each additional inventor.

PATENT
RECORDED: 03/09/2021 REEL: 055531 FRAME: 0900