504444080 07/06/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4490781

Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PIETRO BUTTOLO	08/03/2016
STUART C. SALTER	08/03/2016
JAMES J. SURMAN	08/04/2016

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15231547

CORRESPONDENCE DATA

Fax Number: (312)980-0728

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: 312-269-8000

Email: marden@ngelaw.com, patents@ngelaw.com

Correspondent Name: NEAL, GERBER & EISENBERG LLP

Address Line 1: TWO NORTH LASALLE STREET, SUITE 1700

Address Line 4: CHICAGO, ILLINOIS 60602

ATTORNEY DOCKET NUMBER:	83687064 (026780.8351)
NAME OF SUBMITTER:	JAMES P. MURAFF
SIGNATURE:	/James P. Muraff/
DATE SIGNED:	07/06/2017

Total Attachments: 3

source=Buttolo_signed_Declaration_8351#page1.tif source=Salter_signed_Declaration_8351#page1.tif source=Surman_signed_Declaration_8351#page1.tif

PATENT 504444080 REEL: 042914 FRAME: 0132

Attorney Docket Number	83687064 (026780.8351)	
control books and	1 00001001 10201000011	

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	VEHICLE-BASED SMART COOLER		
This declaration is directe	ad 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 app	lication was made or authorized to be made by me.		
I hereby state that I hav including 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	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, material information which became available between the filing date of the prior hal or PCT international filing date of the continuation-in-part application.		
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/applicat ASSIGNEE, its success applications, in and to th including all application reexaminations and reissi And I hereby agree for the	myself, my heirs, successors, assigns or other legal representatives to execute any and all papers,		
organizations, and to per	ir 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 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			
Inventor: Pietro Bu	ttolo Date: <u>08703/2016</u>		
Signature:	IPC/IVC		
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

PATENT REEL: 042914 FRAME: 0133

Attorney Docket Number	83687064 (()26780.8351)

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)

little of Invention	VEHICLE-BASED SMART COOLER		
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 app	The above-identified application was made or authorized to be made by me.		
I hereby state that I hav including 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	disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for lications, 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 TECHT of the State of Delaware hereinafter referred to as interest, domestic and for of the ASSIGNEE, its su for the inventions and dis name or names, or in my insert the serial/applicat ASSIGNEE, its success applications, in and to the	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 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 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. ———————————————————————————————————		
including applications fo organizations, and to per	nyself, my heirs, successors, assigns or other legal representatives to execute any and all papers, r 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 occure thereto the rights herein sold, assigned and set over.		
And I hereby represent ar	nd 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: Stuart C.			
Signature:	The to Solly		
Note: An Amplication Date	Short (PTO/SD/14 or sactivalant) including parsing the entire inconting antity want assessment the form		
	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form.		

PATENT REEL: 042914 FRAME: 0134

RECORDED: 07/06/2017

		83687		
Attorney				

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)

1 itie of invention	VEHICLE-BASED SWART COOLER		
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 app	lication 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	iginal 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.			
FORD GLOBAL TECH of the State of Delaware hereinafter referred to a interest, domestic and fo of the ASSIGNEE, its se for the inventions and di name or names, or in my insert the serial/applica ASSIGNEE, its success applications, in and to th including all application reexaminations and reiss And I hereby agree for 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		
	nd warrant that I have not granted any rights inconsistent with the rights granted herein.		
I hereby acknowledge th	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: James J.	3 PMR 1.27.1.27 2.33		
77	us J. Lerman		
Ψ.	0t 2 (0TO (0D (4 t		
	a Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form, on form for each additional inventor.		

PATENT REEL: 042914 FRAME: 0135