PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6616060

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VENKATESH KRISHNAN	03/11/2021
SEGUNDO BALDOVINO	03/11/2021
ASHWIN ARUNMOZHI	03/11/2021
CHARLES PRAIN	03/10/2021
MICHAEL WHITNEY	03/16/2021
WILLIAM S. SMITH	03/10/2021
DENIS THEBAULT	03/17/2021
JEAN BAPTISTE LAHILAIRE	03/11/2021

RECEIVING PARTY DATA

Name:	FORD GLOBAL TECHNOLOGIES, LLC
Street Address:	330 TOWN CENTER DRIVE
Internal Address:	SUITE 800 SOUTH
City:	DEARBORN
State/Country:	MICHIGAN
Postal Code:	48126
Name:	VALEO NORTH AMERICA, INC.
Street Address:	4100 NORTH ATLANTIC BLVD.
City:	AUBURN HILLS
State/Country:	MICHIGAN
Postal Code:	48326

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17209456	

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

PATENT REEL: 055683 FRAME: 0169

506569281

Correspondent Name: BEJIN BIENEMAN PLC FORD GLOBAL TECHNOLOG

Address Line 1: 2000 TOWN CENTER

Address Line 2: SUITE 800

Address Line 4: SOUTHFIELD, MICHIGAN 48075

ATTORNEY DOCKET NUMBER:	84339870-2020P00303US3897	
NAME OF SUBMITTER:	MARK C. ST. AMOUR	
SIGNATURE:	/Mark C. St. Amour/	
DATE SIGNED:	03/23/2021	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 8

source=84339870-2020P00303US-Signed-Combined-Declaration-and-Assignment--with filing info (65080-3897)#page1.tif

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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)

ASSEMBLY FOR SENSOR CLEANING WITH SOLENOID

This declaration i	is directed to:	
this form when th	The attached application, or United States application or PCT internation 17/209,456 filed on Mar. 23, 202 (I here hey become known.)	ional application number by authorize the insertion of the application filing date and number into
The above-identi	ified application was made or authorized to	be made by me.
I hereby state tha claims.	at I have reviewed and understand the conte	ents of the specification in the above-identified application, including the
I believe that I ar	m the original inventor or an original joint i	nventor of a claimed invention in the application.
continuation-in-p		material to patentability as defined in 37 C.F.R. 1.56, including for ch became available between the filing date of the prior application and tion-in-part application.
GLOBAL TECH Delaware, having AMERICA, INC Troy, County of representatives, to identified invent applications and organizations, in ASSIGNEES' at Serial No. 17/ ASSIGNEES, its and to the inve applications clair applications.	g its principal place of business at Dearborn, organized and existing by virtue of the Oakland, and State of Michigan hereinafte the entire right, title and interest, domestition including the right of the ASSIGN to receive Letters Patent for the inventions its or their own name or names, or in my retorney to insert the serial/application num/209,456 , Filing Date M s successors, assigns or other legal representations and discoveries in any and all oming benefit of the filing date hereof, continuations.	y subsidiary, organized and existing by virtue of the laws of the State of orn, County of Wayne, and State of Michigan, and VALEO NORTH laws of the State of Delaware, having its principal place of business at er referred to as the ASSIGNEES, its successors, assigns or other legal ic and foreign, in and to the inventions and discoveries in the above-EES, its successors, assigns or other legal representatives to make and discoveries in any and all countries, entities and intergovernmental name, at its or their election (and I hereby authorize the ASSIGNEES or other and filing date of the application to receive Letters Patent herein: larch 23, 2021), and I hereby sell, assign and set over to the natives, all rights of priority, including any provisional applications, in countries, entities and intergovernmental organizations including all inuations, continuations-in-part, divisionals, reexaminations and reissue
applications for I perform any and	Letters Patent of any and all kinds and in ar	as or other legal representatives to execute any and all papers, including by and all countries, entities and intergovernmental organizations, and to cessors, assigns or other legal representatives may deem necessary to
And I hereby rep	present and warrant that I have not granted a	any rights inconsistent with the rights granted herein.
	vledge that any willful false statement ma not more than five (5) years or both.	ide in this declaration is punishable under 18 U.S.C. 1001 by fine or
LEGAL NAME	OF INVENTOR	3/11/2021
	Venkatesh Krishnan	Date:
Signature:	Venkatesh Krishnan/	
	ntion Data Sheet (PTO/SB/14 or equivalent), incident form for each additional inventor.	cluding naming the entire inventive entity, must accompany this form. Use an

Attorney	Doglast	Missingle	
AIRBINEV	3 24 3C K (**)	NI III III III III III III III III III	

84339870-2020P00303US-3897

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	ASSEMBLY FOR SENSOR CLEANING WITH SOLENOID			
This declaration is directe	d to:			
X United	sched application, or States application or PCT international application number 456 filed on Mar. 23, 202 (I hereby authorize the insertion of the application filing date and number into me known.)			
The above-identified appl	ication was made or authorized to be made by me.			
I hereby state that I have reclaims.	eviewed and understand the contents of the specification in the above-identified application, including the			
I believe that I am the orig	ginal inventor or an original joint inventor of a claimed invention in the application.			
continuation-in-part applie	to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for cations, material information which became available between the filing date of the prior application and ational filing date of the continuation-in-part application.			
GLOBAL TECHNOLOG Delaware, having its prin AMERICA, INC., organiz Troy, County of Oakland representatives, the entire identified invention inch applications and to receive organizations, in its or the ASSIGNEES' attorney to Serial No. 17/209,45 ASSIGNEES, its successed and to the inventions as applications claiming ben applications. And I hereby agree for many control of the inventions.	ent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD IES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of icipal place of business at Dearborn, County of Wayne, and State of Michigan, and VALEO NORTH zed and existing by virtue of the laws of the State of Delaware, having its principal place of business at and State of Michigan hereinafter referred to as the ASSIGNEES, its successors, assigns or other legal eright, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-ding the right of the ASSIGNEES, its successors, assigns or other legal representatives to make the Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental for own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEES or insert the serial/application number and filing date of the application to receive Letters Patent herein: March 23, 2021			
perform any and all acts which the ASSIGNEES, 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.				
	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.			
LEGAL NAME OF INVE	.5/ 11/20/21			
Inventor: Segundo	Baldovino Date:			
Signature: /Segur	ndo Baldovino/			
Note: An Application Data additional declaration form f	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an or each additional inventor.			

Attorney Docket Number **84339870-2020P00303US-3897**

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)

ASSEMBLY FOR SENSOR CLEANING WITH SOLENOID

This declaration	is directed to:		
	The attached application, or		
A	United States application or PCT international application number 17/209,456 filed on Mar. 23, 2021(I hereby authorize the insertion of the application filing date and number into		
this form when the	hey become known.)		
The above-identi	ified application was made or authorized to be made by me.		
I hereby state that claims.	at I have reviewed and understand the contents of the specification in the above-identified application, including the		
I believe that I ar	m the original inventor or an original joint inventor of a claimed invention in the application.		
continuation-in-p	the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for part 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, havin AMERICA, INC Troy, County of representatives, identified invent applications and organizations, in ASSIGNEES' at Serial No. ASSIGNEES, its and to the inve applications clair applications. And I hereby agr applications for I perform any and	employment agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD INOLOGIES, 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 VALEO NORTH 2, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Oakland, and State of Michigan hereinafter referred to as the ASSIGNEES, its successors, assigns or other legal the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-tion including the right of the ASSIGNEES, its successors, assigns or other legal representatives to make to receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEES or trorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: 17/209,456 , Filing Date March 23, 2021), and I hereby sell, assign and set over to the successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in entions and discoveries in any and all countries, entities and intergovernmental organizations including all ming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue tree 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 deal acts which the ASSIGNEES, its successors, assigns or other legal representatives may deem necessary to erights 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 hamby advantadas that any willful false atstangent mode in this destruction is much this and a 10 H.C.O. 1901.)			
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 INVENTAR		
Inventor: A	Ashwin Arunmozhi Date: 3/11/2021		
Signature: //	Ashwin Arunmozhi/		
Note: An Applica	ation Data Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an		
	ion form for each additional inventor.		

Attorney Docket Number **84339870-2020P00303US-3897**

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)

ASSEMBLY FOR SENSOR CLEANING WITH SOLENOID

This declaration is directed to:			
$igotimes_{igotimes$	The attached application, or United States application or PCT internation 17/209,456 filed on Mar. 23, 2021(I hereby become known.)	onal application number y authorize the insertion of the application filing date and number into	
The above-identif	fied application was made or authorized to be	be made by me.	
I hereby state that claims.	at I have reviewed and understand the content	ts of the specification in the above-identified application, including the	
I believe that I arr	n the original inventor or an original joint inv	ventor of a claimed invention in the application.	
continuation-in-pa		material to patentability as defined in 37 C.F.R. 1.56, including for a became available between the filing date of the prior application and on-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, and VALEO NORTH AMERICA, INC., organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Troy, County of Oakland, and State of Michigan hereinafter referred to as the ASSIGNEES, 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-dentified invention including the right of the ASSIGNEES, 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 ASSIGNEES or ASSIGNEES' attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 17/209,456 , Filing Date March 23, 2021), and I hereby sell, assign and set over to the ASSIGNEES, 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, 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 ASSIGNEES, 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 (3/10/2021	
Inventor:	Charles Prain Charles Prain	Date:	
		uding naming the entire inventive entity, must accompany this form. Use an	
additional declaration	ion form for each additional inventor.		

Attorney Docket Number **84339870-2020P00303US-3897**

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The above-i	dentified appl	lication was made or authorized to be	e made by me.	
I hereby stat claims.	e that I have i	reviewed and understand the content	ts of the specification in the	above-identified application, including the
I believe tha	t I am the ori	ginal inventor or an original joint in	ventor of a claimed invention	on in the application.
continuation	-in-part appli		became available between	defined in 37 C.F.R. 1.56, including for the filing date of the prior application and
GLOBAL T Delaware, h AMERICA, Troy, Count representativ identified in applications organization ASSIGNEE Serial No. ASSIGNEE and to the applications applications	ECHNOLOG aving its printing and to receives, in its or the S' attorney to 17/209,4 S, its success inventions a claiming ber	HES, LLC, a Ford Motor Company neipal place of business at Dearbor zed and existing by virtue of the lad, and State of Michigan hereinafter enight, title and interest, domestic uding the right of the ASSIGNED to Letters Patent for the inventions a ceir own name or names, or in my nation insert the serial/application numbers of the property of the place of the filing date hereof, continuation of the filing date hereof, continuational place of the filing date hereof, continuation in the place of the filing date hereof, continuation in the place of the filing date hereof.	subsidiary, organized and em, County of Wayne, and ws of the State of Delawar referred to as the ASSIGN and foreign, in and to the ES, its successors, assign and discoveries in any and a me, at its or their election (per and filing date of the aparch 23, 2021), atives, all rights of priority puntries, entities and intermutations, continuations-in-p	I do sell, assign and set over unto FORD existing by virtue of the laws of the State of State of Michigan, and VALEO NORTH re, having its principal place of business at NEES, its successors, assigns or other legal e inventions and discoveries in the aboves or other legal representatives to make all countries, entities and intergovernmental and I hereby authorize the ASSIGNEES or application to receive Letters Patent herein; and I hereby sell, assign and set over to the including any provisional applications, in governmental organizations including all art, divisionals, reexaminations and reissue are to execute any and all papers, including
applications perform any	for Letters Paragraph and all acts	atent of any and all kinds and in any	and all countries, entities a	and intergovernmental organizations, and to tal representatives may deem necessary to
And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.				
		at any willful false statement made than five (5) years or both.	e in this declaration is pu	nishable under 18 U.S.C. 1001 by fine or
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ME OF INVI		***************************************	A
Inventor:	Michael		Date:	16Mar21
Signature:	1/4			
		Sheet/(PTO/SB/14 or equivalent), inch	uding naming the entire inven	tive entity, must accompany this form. Use an

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Attorney Docket Numb	1er

84339870-2020P00303US-3897

## 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	ASSEMBLY FOR SENSOR CLEANING WITH SOLENOID
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∑ United :	ached application, or  States application or PCT international application number  456 filed on Mar. 23, 2021(I hereby authorize the insertion of the application filing date and number into me known.)
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GLOBAL TECHNOLOGI Delaware, having its prin- AMERICA, INC., organiz Troy, County of Oakland, representatives, the entire identified invention inclu applications and to receive organizations, in its or the ASSIGNEES' attorney to Serial No. 17/209,45 ASSIGNEES, its successo and to the inventions an applications claiming bene applications.  And I hereby agree for my applications for Letters Pai perform any and all acts	ent agreement heretofore made or by contractual obligation, I do sell, assign and set over unto FORD IES, LLC, a Ford Motor Company subsidiary, organized and existing by virtue of the laws of the State of cipal place of business at Dearborn, County of Wayne, and State of Michigan, and VALEO NORTH ted and existing by virtue of the laws of the State of Delaware, having its principal place of business at and State of Michigan hereinafter referred to as the ASSIGNEES, its successors, assigns or other legal right, title and interest, domestic and foreign, in and to the inventions and discoveries in the aboveding the right of the ASSIGNEES, its successors, assigns or other legal representatives to make be Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental ir own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEES or insert the serial/application number and filing date of the application to receive Letters Patent herein:  [56
And I hereby represent and	I warrant that I have not granted any rights inconsistent with the rights granted herein.
imprisonment of not more	at any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years or both.
LEGAL NAME OF INVE	NTOR
Inventor: William S. Signature:	Smith Date: 10-1914-10-20-21
Note: An Application Data Sadditional declaration form fo	Sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an or each additional inventor.

Attorney Docket Number **84339870-2020P00303US-3897** 

## 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)

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GLOBAL TECH Delaware, having AMERICA, INC. Troy, County of representatives, tidentified inventiapplications and torganizations, in ASSIGNEES' att Serial No ASSIGNEES, its and to the invention	mployment 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 its principal place of business at Dearborn, County of Wayne, and State of Michigan, and VALEO NORTH, organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Oakland, and State of Michigan hereinafter referred to as the ASSIGNEES, its successors, assigns or other legal he entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in the above-on including the right of the ASSIGNEES, its successors, assigns or other legal representatives to make or receive Letters Patent for the inventions and discoveries in any and all countries, entities and intergovernmental its or their own name or names, or in my name, at its or their election (and I hereby authorize the ASSIGNEES or orney to insert the serial/application number and filing date of the application to receive Letters Patent herein:  17/209,456, Filing Date
applications for L perform any and	ee for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including etters 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.
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LEGAL NAME (	.5(1//2021
Inventor:	Denis Thebault Date:
Signature:	
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Attorney Docket Number	84339870-2020P00303US-3897	

# 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).

ine or mychiam	ASSEMBLT FOR SENSOR CLEANING WITH SOLENOID		
This declaration is directed to:			
X United	sched application, or States application or PCT international application number 156_filed on Mar. 23, 202 (I hereby authorize the insertion of the application filing date and number into the known.)		
The above-identified appl	ication was made or authorized to be made by me.		
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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, and VALEO NORTH AMERICA, INC., organized and existing by virtue of the laws of the State of Delaware, having its principal place of business at Troy, County of Oakland, and State of Michigan hereinafter referred to as the ASSIGNEES, 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 ASSIGNEES, 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 ASSIGNEES or ASSIGNEES' attorney to insert the serial/application number and filing date of the application to receive Letters Patent herein: Serial No. 17/209.456 , Filing Date March 23, 2921 ), and I hereby sell, assign and set over to the ASSIGNEES, 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, 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 ASSIGNEES, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein sold, assigned and set over.			
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LEGAL NAME OF INVI			
Signature:			
Note: An Application Data additional declaration form f	Sheet (FTO/SB/14) requivalent), including naming the entire inventive entity, must accompany this form. Use an or each additional inventor.		

PATENT REEL: 055683 FRAME: 0178

RECORDED: 03/23/2021