505371198 03/12/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5417990

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONATHAN B. ARTHUR	01/21/2019
KARL W. BLOEDORN	02/18/2019
JAYANT CHAKRAVARTY	01/20/2019
GENE B. PORTELLI	01/21/2019
DENNIS M. GLASS	01/18/2019
MICHAEL A. MEIS	01/25/2019
LYLE L. LUPPES	02/12/2019
DANIEL W. HENNEN	01/21/2019
DOUGLAS D. FLETCHER	01/18/2019
ERIC O. HEMBERG	01/21/2019
OSCAR M. HEMBERG	01/19/2019

RECEIVING PARTY DATA

Name:	3M Innovative Properties Company	
Street Address:	eet Address: P.O. Box 33427	
City:	St. Paul	
State/Country: MINNESOTA		
Postal Code:	55133-3427	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15876742

CORRESPONDENCE DATA

Fax Number: (651)736-3833

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.

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	78625US006
NAME OF SUBMITTER:	REBECCA BODE
SIGNATURE:	/Rebecca Bode/
DATE SIGNED:	03/12/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 11

source=DeclarationAssignment_78625US006#page1.tif source=DeclarationAssignment_78625US006#page2.tif source=DeclarationAssignment_78625US006#page3.tif source=DeclarationAssignment_78625US006#page4.tif source=DeclarationAssignment_78625US006#page5.tif source=DeclarationAssignment_78625US006#page6.tif source=DeclarationAssignment_78625US006#page7.tif source=DeclarationAssignment_78625US006#page8.tif source=DeclarationAssignment_78625US006#page9.tif source=DeclarationAssignment_78625US006#page10.tif source=DeclarationAssignment_78625US006#page11.tif

Case No:

78625US006

AIR FILTER CO	ONDITION SENSING
The specification of which:	
is attached hereto;	
■ was filed on	
as United States Application No.	15/876742
is identified as PCT International Application No.	
The above-identified application was made or authorize	d to be made by me
I hereby acknowledge that any willful false statement make the or imprisonment of not more than 5 years, or both.	ade in this declaration is punishable under 18 U.S.C. 1001 by
SM COMPANY, and a corporation of Delaware, having it assigns, the entire right, title, and interest in and to the scontinuation (in whole or in part) of said application, and by me or made jointly with others (provided any such imtermination of, my employment with 3M COMPANY and all Letters Patent, reexaminations, reissues, or extension thereto (including the right to apply for Letters Patent, Utown name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which is continuation (in whole or in part), renewal, reexamination part upon the said invention or improvements thereon, to have been by me had this assignment and transfer not be	any of its existing or future subsidiaries), and in and to any and its thereof, of the United States of America and countries foreign tility Models, or Inventors' Certificates in foreign countries in its in applications to which such applications are entitled under have been or may be granted thereon or on any divisional, in, reissue, or other or further application based in whole or in the behald and enjoyed as fully and exclusively as they would been made;
9013 may be deemed necessary by said Composit its at	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, ccessors, assigns, and nominees, fully to secure its right, title, rs Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize and request the Commissioner of I granted upon any of the said applications, to said 3M Inr title, and interest therein.	Patents to issue any and all Letters Patent which may be lovative Properties Company, as the assignee of the entire right
Legal Name of Inventor:	
Jonathan B. Arthur	XXXX
Inventor's Signature:	Date:
	1/21/19
	1/2/1/

Case No:

78625US006

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

application and for w	men a patent is sought on the inven	on entitled:	
	AIR FILTER CO	IDITION SENSING	
The specification of v	vhich:		
is attached here	to;		
was filed on	January 22, 2018 s Application No.	\$2107074A	
	PCT International Application No.	15/876742	
The above-identified	application was made or authorized	to be made by me.	
l hereby acknowledg fine or imprisonment	e that any willful false statement ma of not more than 5 years, or both.	le in this declaration is punish	able under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my en all Letters Patent, ree thereto (including the own name and to cla international convent continuation (in whole part upon the said inv	and valuable consideration, receipt and transfer unto the 3M INNOVA a corporation of Delaware, having it thit, title, and interest in and to the size or in part) of said application, and with others (provided any such imployment with 3M COMPANY and examinations, reissues, or extension right to apply for Letters Patent, Utim any priority rights for such foreignions, treaties, or otherwise), which he or in part), renewal, reexamination rention or improvements thereon, to this assignment and transfer not be	IVE PROPERTIES COMPAN principal office at Saint Paul, id invention and application, and and to any and all improvem rovement is made during, or viny of its existing or future substitute to thereof, of the United States ty Models, or Inventors' Certifapplications to which such applications to which such a reissue, or other or further applied and enjoyed as fully a perior or further applications.	Y, a wholly-owned subsidiary of Minnesota, its successors and and in and to any division or ments in the said invention made within one year after the saidiaries), and in and to any and of America and countries foreign ficates in foreign countries in its oplications are entitled under hereon or on any divisional, polication based in whole or in
consideration any fur that may be deemed	myself and for my heirs, executors, ther applications, assignments, and necessary by said Company, its suisald and to obtain or maintain Letter	documents, and to perform su cessors, assigns, and nomine	ich other acts as I lawfully may, les, fully to secure its right, title
I do hereby authorize granted upon any of t title, and interest ther	and request the Commissioner of F he said applications, to said 3M Inn ein.	atents to issue any and all Le vative Properties Company, a	tters Patent which may be as the assignee of the entire right
Legal Name of Inve	ntor:		
Karl W. Bloedor	'n		
Inventor's Signature	120-1	Date: Feb 18, 2019	

DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN

PATENT APPLICATION (37 CFR § 1.63)	Case No.	78625US008
As a below named inventor, I believe I am an original invent application and for which a patent is sought on the invention	tor or an original joint entitled:	inventor of a claimed invention in the
AIR FILTER COND	ITION SENSING	
The specification of which:		
is attached hereto;		
as United States Application No.	15/876	742
is identified as PCT international Application No.		
The above-identified application was made or authorized to b	pe made by me.	
I hereby acknowledge that any willful false statement made in fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of whand do hereby assign and transfer unto the 3M INNOVATIVE 3M COMPANY, and a corporation of Delaware, having its priessigns, the entire right, title, and interest in and to the said in continuation (in whole or in part) of said application, and in arby me or made jointly with others (provided any such improve termination of, my employment with 3M COMPANY and any all Letters Patent, reexaminations, reissues, or extensions that thereto (including the right to apply for Letters Patent, Utility Nown name and to claim any priority rights for such foreign applicational conventions, treaties, or otherwise), which have continuation (in whole or in part), renewal, reexamination, reispart upon the said invention or improvements thereon, to be in have been by me had this assignment and transfer not been to find the further agree for many priority and transfer not been to find the further agree for many priority and transfer not been to find the further agree for many priority and transfer not been to find the further agree for many priority and transfer not been to find the further agree for many priority and the further agree for many pri	hich is acknowledged, EPROPERTIES COM- ncipal office at Saint Forention and application of the application of the application of the applications of the United Standards, of the United Standards, or Inventors' Colications to which such been or may be grant assue, or other or further add and enjoyed as funded;	I have agreed to assign and transfer PANY, a wholly-owned subsidiary of Paul, Minnesota, its successors and on, and in and to any division or ovements in the said invention made or within one year after the subsidiaries), and in and to any and ates of America and countries foreign certificates in foreign countries in its th applications are entitled under ed thereon or on any divisional, or application based in whole or in ally and exclusively as they would
I do further agree for myself and for my heirs, executors, and consideration any further applications, assignments, and doct that may be deemed necessary by said Company, its success and interest as aforesaid and to obtain or maintain Letters Pacountries; and	uments, and to perfor	n such other acts as I lawfully may,
I do hereby authorize and request the Commissioner of Pater granted upon any of the said applications, to said 3M Innovati tills, and interest therein.	nts to issue any and al ive Properties Compar	I Letters Patent which may be ny, as the assignee of the entire right,
Commence of the Comment of the Comme		

Legal Name of Inventor: Jayant Chakravarty inventor's Signature: Date: 01/20/2019

Case No:

78625US006

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed inv	vention in the
application and for which a patent is sought on the invention entitled:	man kanada i ira maka a

As a appli	As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:				
		AIR FILTER CONDI	TON SENSING		
The	specification of wi	nich:			
	is attached herete	o;;			
	was filed on as United States	January 22, 2018 Application No.	15/876742		
	is identified as Po filed on	CT International Application No.			
The	above-identified a	pplication was made or authorized to be	made by me.		
I hen fine (eby acknowledge or imprisonment c	that any willful false statement made in f not more than 5 years, or both.	this declaration is punishable under 18 U.S.C. 1001 by		
and o	do hereby assign COMPANY, and a	and transfer unto the 3M INNOVATIVE corporation of Delaware, having its prin	ch is acknowledged, I have agreed to assign and transfer PROPERTIES COMPANY, a wholly-owned subsidiary of cipal office at Saint Paul, Minnesota, its successors and rention and application, and in and to any division or		

lr a 3 a continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries: and

I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Legal Name of Inventor:	
Gene B. Portelli	
Inventor's Signature:	Date: 1/2//9
evolution order	

Case No:

78625US006

	AIR FILTER CO	NOITION SENSING
The specification of wh	***************************************	
is attached hereto	;	
was filed on as United States.	January 22, 2018	
		15/876742
is identified as PC filed on	T International Application No.	
The above-identified a	pplication was made or authorized	to be made by me.
I hereby acknowledge		de in this declaration is punishable under 18 U.S.C. 1001 by
assigns, the entire right continuation (in whole to by me or made jointly was termination of, my empall Letters Patent, reex thereto (including the right countinuational convention continuation (in whole to part upon the said invertible to the said inv	to portain or belaware, having its to the salor in part) of said application, and in with others (provided any such impirity of the salor in part) of said application, and in with others (provided any such impirity and a saminations, reissues, or extensions ght to apply for Letters Patent, Utility any priority rights for such foreign as treaties, or otherwise), which have in part), renewel, reexamination, ntion or improvements thereon, to his assignment and transfer not be	
that may be deemed no	e, applications, assignments, and (scessary by said Company, its elec-	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize a granted upon any of the title, and interest therein	z zaiu appiications, to saio sivi inno	atents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right,
Legal Name of Invento	St.	
Dennis M. Glass		
Inventor's Signature:		Date:
- ely	M. A-	1-18-19

PATENT REEL: 048578 FRAME: 0162

Case No:

78625US006

de a holow named inventor I have a to	
As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention	4.
and on an ongular joint inventor of a cialmed inventor	in the
SUDJICATION and for Which a natent is sought on the invention and invention	C 10 1 10 10 10 10 10 10 10 10 10 10 10 1
application and for which a patent is sought on the invention entitled:	

AIR FILTER CO	NDITION SENSING
The specification of which:	
is attached hereto;	
was filed on January 22, 2018 as United States Application No.	15/876742
is identified as PCT International Application No. filed on	
The above-identified application was made or authorized	to be made by me.
	de in this declaration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of	of which is acknowledged I have agreed to contain and the second to contain a second t

lr and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, titie, and interest therein.

Legal Name of Inventor:	
Michael A. Meis	
Inventor's Signature:	Date:
Mulan	1/25/19

Case No.

78825US006

Lucion management and a		1, 000,	
As a below named invapplication and for wh	/entor, I believe I am an origina ich a patent is sought on the inv	l inventor or an creation entitled:	original joint inventor of a claimed invention in the
	AIR FILTER O	ONDITION S	ENSING
The specification of wh	hich:	***************************************	
is attached hereto	o;		
was filed on as United States	്≋ലാ ary 22, 2018 Application No.		15/876742
is identified as PC filed on	CT International Application No.		
The above-identified a	pplication was made or authoriz	ed to be made b	v me
3M COMPANY, and a assigns, the entire right continuation (in whole continuation of, my empail Letters Patent, reexistereto (including the right continuation of, whole continuation (in whole continuation (in whole continuation) and inventor the said inventor the continuation of the said inventor the continuation of the said inventor the continuation and the continuation and the said inventor the consideration and further agree for maconsideration and further agree for maconsideration and further that may be deemed nearly interest as aforesaic countries; and	corporation of Delaware, having t, title, and interest in and to the or in part) of said application, and with others (provided any such is alloyment with 3M COMPANY and aminations, reissues, or extensifight to apply for Letters Patent, to any priority rights for such foreins, treaties, or otherwise), which or in part), renewal, reexamination or improvements thereon, his assignment and transfer not expected and for my heirs, executors are applications, assignments, and exessary by said Company, its said and to obtain or maintain Letter and request the Commissioner of a said applications, to said 3M Inc.	ATIVE PROPER I its principal office said invention are ind in and to any a improvement is m id any of its existic ons thereof, of the Utility Models, or ign applications to have been or m on, reissue, or offi- to be held and er been made; is, and administra id documents, an uccessors, assig- ers Patent, Utility	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of the at Saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the age or future subsidiaries), and in and to any and a United States of America and countries foreign inventors' Certificates in foreign countries in its to which such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in alloyed as fully and exclusively as they would tors, to execute and deliver without further do to perform such other acts as I lawfully may, as, and nominees, fully to secure its right, title, Models, or inventors' Certificates in any and all any and all Letters Patent which may be lies Company, as the assignee of the entire right,
inventor's Signature:		Date:	
TOL	MA	2/	12/2019

PATENT

REEL: 048578 FRAME: 0164

DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)	Case No:	78625US006
As a below named inventor, I believe I am an original in- application and for which a patent is sought on the invent	ventor or an original joint inve	ntor of a claimed invention in the
	NDITION SENSING	
The specification of which:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
☐ is attached hereto;		f:
as United States Application No.	15/876742	
is identified as PCT International Application No.		
filed on		
The above-identified application was made or authorized	to be made by me.	
I hereby acknowledge that any willful false statement mac fine or imprisonment of not more than 5 years, or both.		able under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVAT 3M COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the sai centinuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such importermination of, my employment with 3M COMPANY and a all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utiliti own name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which has continuation (in whole or in part), renewal, reexamination, part upon the said invention or improvements thereon, to be have been by me had this assignment and transfer not been been by me had this assignment and transfer not been accessively and for my heirs, executors, a consideration any further applications, assignments, and dithat may be deemed necessary by said Company, its successful and interest as aforesaid and to obtain or maintain Letters countries; and	principal office at Saint Paul, id invention and application, an and to any and all improvem overnent is made during, or way of its existing or future substitute of its existing or future substitute of the United States by Models, or Inventors' Certificapplications to which such applications to which such applications to which such applications to which such applications to may be granted the reissue, or other or further applications and enjoyed as fully are held and enjoyed as fully are made; and administrators, to execute ocuments, and to perform such essors, assigns, and nomines Patent, Utility Models, or Inventors	Minnesota, its successors and and in and to any division or ents in the said invention made ithin one year after the sidiaries), and in and to any and of America and countries foreign cates in foreign countries in its plications are entitled under ereon or on any divisional, plication based in whole or in and exclusively as they would and deliver without further the other acts as I lawfully may, es, fully to secure its right, title, intors' Certificates in any and all
Legal Name of Inventor:	Marian	management of the second s
Daniel W. Hennen		, iii
Inventor's Signature:	Date:	
Wind Willen	Jan. 21, 2	1019

Case No:

78625US006

AIR FILTER CONDITION S	Ensing
The specification of which:	
is attached hereto;	
☑ was filed on Janusry 22, 2018	
as United States Application No.	15/876742
is identified as PCT International Application No.	
The above-identified application was made or authorized to be made by	ud Norma
I hereby acknowledge that any willful false statement made in this decline or imprisonment of not more than 5 years, or both.	aration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is ack and do hereby assign and transfer unto the 3M INNOVATIVE PROPER 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention a continuation (in whole or in part) of said application, and in and to any object of made jointly with others (provided any such improvement is not termination of, my employment with 3M COMPANY and any of its exist all Letters Patent, reexaminations, reissues, or extensions thereof, of it thereto (including the right to apply for Letters Patent, Utility Models, or own name and to claim any priority rights for such foreign applications international conventions, treaties, or otherwise), which have been or no continuation (in whole or in part), renewal, reexamination, reissue, or or part upon the said invention or improvements thereon, to be held and examined the part in the said invention or improvements thereon, to be held and example the part in the said invention or improvements thereon, to be held and example the part in the said invention or improvements, account to the part upon the said invention or improvements, executors, and administrations of the part in the part of t	CHES COMPANY, a wholly-owned subsidiary of ce at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made hade during, or within one year after the ling or future subsidiaries), and in and to any and the United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, ther or further application based in whole or in anjoyed as fully and exclusively as they would ators, to execute and deliver without further and to perform such other acts as I lawfully may,
and interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	Ins, and nominees, fully to secure its right, title, y Models, or inventors' Certificates in any and all
I do hereby authorize and request the Commissioner of Patents to issue granted upon any of the said applications, to said 3M Innovative Proper title, and interest therein.	e any and all Letters Patent which may be ties Company, as the assignee of the entire right,
Legal Name of Inventor:	
Douglas D. Fletcher	
Inventor's Signature: Date:	
	3-2019

Case No:

78625US006

*	AIR FILTER CON	NDITION SENSING
The specification of wh	nich:	
is attached hereto	3 }	
⊠ was filed on	January 22, 2018	<u> </u>
as United States	Application No.	15/876742
is identified as PC	CT International Application No.	
The above-identified a	pplication was made or authorized	to be made by me
In addition, for good ar and do hereby assign: 3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to claim international conventio continuation (in whole part upon the said invehave been by me had	corporation of Delaware, having its t, title, and interest in and to the sai or in part) of said application, and ir with others (provided any such impro- ployment with 3M COMPANY and a aminations, reissues, or extensions ight to apply for Letters Patent, Utili any priority rights for such foreign as, treaties, or otherwise), which ha or in part), renewal, reexamination, ention or improvements thereon, to let this assignment and transfer not be	
that may be deemed n	er applications, assignments, and c ecessary by said Company, its succ	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or inventors' Certificates in any and all
f do hereby authorize a granted upon any of th title, and interest therei	e said applications, to said 3M inno	atents to issue any and all Letters Patent which may be evative Properties Company, as the assignee of the entire right
Legal Name of Invent	OL.	The state of the s
Eric O. Hemberg		
Inventor's Signature:		Date:
/X	(AGG)	Ja- 21, 2019

Case No:

78625US006

AIR FILTER CONDITION S	BENSING
The specification of which:	
is attached hereto;	
⊠ was filed on Sanuary 22, 2018	
as United States Application No.	15/876742
is identified as PCT International Application No.	
The above-identified application was made or authorized to be made	by me.
I hereby acknowledge that any willful false statement made in this define or imprisonment of not more than 5 years, or both.	claration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVATIVE PROPE 3M COMPANY, and a corporation of Delaware, having its principal of assigns, the entire right, title, and interest in and to the said invention continuation (in whole or in part) of said application, and in and to any by me or made jointly with others (provided any such improvement is termination of, my employment with 3M COMPANY and any of its exi all Letters Patent, reexaminations, reissues, or extensions thereof, of thereto (including the right to apply for Letters Patent, Utility Models, own name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have been or continuation (in whole or in part), renewal, reexamination, reissue, or part upon the said invention or improvements thereon, to be held and have been by me had this assignment and transfer not been made;	fice at Saint Paul, Minnesota, its successors and and application, and in and to any division or and application, and in and to any division or and all improvements in the said invention made made during, or within one year after the sting or future subsidiaries), and in and to any and the United States of America and countries foreign inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, other or further application based in whole or in enjoyed as fully and exclusively as they would
I do further agree for myself and for my heirs, executors, and administ consideration any further applications, assignments, and documents, that may be deemed necessary by said Company, its successors, as and interest as aforesaid and to obtain or maintain Letters Patent, Uticountries; and	and to perform such other acts as I lawfully may,
I do hereby authorize and request the Commissioner of Patents to iss granted upon any of the said applications, to said 3M Innovative Prop title, and interest therein.	sue any and all Letters Patent which may be serties Company, as the assignee of the entire right
Legal Name of Inventor:	
Oscar M. Hemberg	
Inventor's Signature: Date:	
Mathin Hem bery 201	19-01-19

PATENT REEL: 048578 FRAME: 0168

RECORDED: 03/12/2019