PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5450433

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DEREK M. MAANUM	03/27/2019
MICHAEL S. WENDLAND	08/31/2018
MICHAEL W. KOBE	08/23/2018
AUSTIN D. GROTH	08/23/2018
NEAL A. RAKOW	08/24/2018

RECEIVING PARTY DATA

Name:	3M INNOVATIVE PROPERTIES COMPANY
Street Address:	P.O. BOX 33427
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55133-3427

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16083829

CORRESPONDENCE DATA

Fax Number: (651)736-7586

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: 651-733-1500

Email: mmoes@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

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

Total Attackments. 5	
	This document serves as an Oath/Declaration (37 CFR 1.63).
DATE SIGNED:	04/01/2019
SIGNATURE:	/Monica J. Moes/
NAME OF SUBMITTER:	MONICA J. MOES
ATTORNEY DOCKET NUMBER:	79272US015

Total Attachments: 5

PATENT REEL: 048752 FRAME: 0134

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> PATENT REEL: 048752 FRAME: 0135

DECLARATION AND ASSIGNMENT,	
FOR UTILITY OR DESIGN	
PATENT APPLICATION (37 CFR § 1.63	3)

Case No:

79272US015

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 FILTERS COMPRISING POLYMER	IC SORBEN	TS FOR REACTIVE GASES
The	specification of which:		
	is attached hereto;		
	was filed on as United States Application No.		
\boxtimes	is identified as PCT International Application No. filed on March 10, 2017		PCT/US2017/021850
The	above-identified application was made or authorized t	o be made by t	ne.
	eby acknowledge that any willful false statement mad or imprisonment of not more than 5 years, or both.	e in this declar	ation is punishable under 18 U.S.C. 1001 by
and 3M (assignment by mall Learn cown inter conti	Idition, for good and valuable consideration, receipt of do hereby assign and transfer unto the 3M INNOVATIONPANY, and a corporation of Delaware, having its gns, the entire right, title, and interest in and to the sai nuation (in whole or in part) of said application, and in the crimade jointly with others (provided any such imprination of, my employment with 3M COMPANY and a letters Patent, reexaminations, reissues, or extensions ato (including the right to apply for Letters Patent, Utilinational conventions, treaties, or otherwise), which have nuation (in whole or in part), renewal, reexamination, upon the said invention or improvements thereon, to be been by me had this assignment and transfer not be	IVE PROPERT principal office of invention and and to any anovement is making of its existing thereof, of the applications to the been or making of held and enjocation and	IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or dall improvements in the said invention made de during, or within one year after the g or future subsidiaries), and in and to any and United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under y be granted thereon or on any divisional, er or further application based in whole or in
cons that and	further agree for myself and for my heirs, executors, a ideration any further applications, assignments, and comay be deemed necessary by said Company, its succentrest as aforesaid and to obtain or maintain Letters stries; and	locuments, and cessors, assign	to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title,
gran	hereby authorize and request the Commissioner of Pa ted upon any of the said applications, to said 3M Inno and interest therein.		
Leç	al Name of inventor:		
De	rek M. Maanum		
Inv	entor's Signature:	Date: 3 ~ 2	7-19

REEL: 048752 FRAME: 0136

Case No:

79272US015

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

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	AIR FILTE	RS COMPRISING POLYMERIC SO	RBENTS FOR REACTIVE GASES
The	specification of w	hich:	
	is attached heret	O _t	
L 3	i nama ittaa ita		
L	was filed on as United States	Application No	
	and anything articles		
\boxtimes		CT International Application No.	PCT/US2017/021850
	filed on	March 10, 2017	
The	above-identified a	application was made or authorized to be ma	de by me.
fine In act and In act	or imprisonment or imprisonment of doilion, for good as do hereby assign COMPANY, and a gns, the entire right inuation (in whole ne or made jointly hination of, my empetters Patent, reex eto (including the rame and to claim mational conventionation (in whole upon the said investigned).	of not more than 5 years, or both. Indivaluable consideration, receipt of which is and transfer unto the 3M INNOVATIVE PROsecorporation of Delaware, having its principal of the and interest in and to the said invention or in part) of said application, and in and to with others (provided any such improvement ployment with 3M COMPANY and any of its caminations, reissues, or extensions thereof, right to apply for Letters Patent, Utility Model on any priority rights for such foreign applications, treaties, or otherwise), which have been or in part), renewal, reexamination, reissue,	existing or future subsidiaries), and in and to any and of the United States of America and countries foreign or Inventors' Certificates in foreign countries in its ons to which such applications are entitled under or may be granted thereon or on any divisional, or other or further application based in whole or in and enjoyed as fully and exclusively as they would
cons th at and	sideration any furth may be deemed n	ner applications, assignments, and document ecessary by said Company, its successors,	nistrators, to execute and deliver without further s, and to perform such other acts as I lawfully may, assigns, and nominees, fully to secure its right, title, Jtility Models, or Inventors' Certificates in any and all
gran	hereby authorize a ited upon any of th and interest there	ie said applications, to said 3M Innovative Pr	ssue any and all Letters Patent which may be operties Company, as the assignee of the entire righ
Lec	jal Name of Invent	tor:	
	chael S. Wend		
Invi	entor's Signature Neway	Mendand	8/31/8

REEL: 048752 FRAME: 0137

Case No:

79272US015

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:

abblication and lot w	nich a patent is sought on the invention	on engled:	
AIR FILTI	ERS COMPRISING POLYMER	IC SORBENTS FOR REACTIVE GASES	
The specification of v	which:		
is attached here	eto;		
was filed on as United State	s Application No.		
is identified as F	PCT International Application No. March 10, 2017	PCT/US2017/021850	
The above-identified	application was made or authorized to	to be made by me.	
	e that any willful false statement made of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by	
3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my enall Letters Patent, resthereto (including the own name and to clainternational convent continuation (in whole part upon the said inhave been by me har	a corporation of Delaware, having its ght, title, and interest in and to the said e or in part) of said application, and in y with others (provided any such improporate with 3M COMPANY and are examinations, reissues, or extensions right to apply for Letters Patent, Utilitim any priority rights for such foreign a ions, treaties, or otherwise), which have or in part), renewal, reexamination, it wention or improvements thereon, to be discussed the sassignment and transfer not been		d de nd ign s
consideration any fur that may be deemed	ther applications, assignments, and dinecessary by said Company, its succ	and administrators, to execute and deliver without further focuments, and to perform such other acts as I lawfully may be secure its right, title Patent, Utility Models, or Inventors' Certificates in any and	ġ.,
	the said applications, to said 3M Innov	atents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire ri	ght,
Legal Name of Inve	ntor:		-
Michael W. Kob	10		*
Inventor's Signature		Date:	W. Company
With Del		8/23/18	

PATENT REEL: 048752 FRAME: 0138

Case No:

79272US015

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:

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AIR FILTERS	COMPRISING POLYMER	IC SORBENT	S FOR REACTIVE GASES
The specification of which	h:	:	
is attached hereto;			
m		-	
was filed on as United States Ap	plication No		
	***************************************	₩	
	International Application No.		PCT/US2017/021850
filed on	March 10, 2017		
The above-identified app	lication was made or authorized to	be made by me	,
	at any willful false statement made ot more than 5 years, or both.	in this declaration	on is punishable under 18 U.S.C. 1001 by
and do hereby assign and 3M COMPANY, and a co assigns, the entire right, to continuation (in whole or by me or made jointly with termination of, my employall Letters Patent, reexand thereto (including the right own name and to claim a international conventions continuation (in whole or part upon the said inventionate on the said inventionate of	d transfer unto the 3M INNOVATIVE reporation of Delaware, having its partitle, and interest in and to the said in part) of said application, and in hothers (provided any such improyment with 3M COMPANY and an inations, reissues, or extensions at to apply for Letters Patent, Utility my priority rights for such foreign at treaties, or otherwise), which have in part), renewal, reexamination, ren or improvements thereon, to be assignment and transfer not bee	VE PROPERTIE: principal office at and to any and a and to any and a exement is made by of its existing of the Uity Models, or Investigations to with the end and enjoyed and e	ledged, I have agreed to assign and transfer S COMPANY, a wholly-owned subsidiary of Saint Paul, Minnesota, its successors and oplication, and in and to any division or all improvements in the said invention made during, or within one year after the or future subsidiaries), and in and to any and nited States of America and countries foreign entors' Certificates in foreign countries in its nich such applications are entitled under se granted thereon or on any divisional, or further application based in whole or in ed as fully and exclusively as they would
consideration any further that may be deemed nec	applications, assignments, and do essary by said Company, its succe	ocuments, and to essors, assigns,	, to execute and deliver without further perform such other acts as I lawfully may, and nominees, fully to secure its right, title, dels, or Inventors' Certificates in any and all
			y and all Letters Patent which may be Company, as the assignee of the entire right,
Legal Name of Inventor:			
Austin D. Groth			***************************************
Inventor's Signature:		Date:	
and and	\bigwedge	8-2	3-18

PATENT

Case No:

79272US015

	YMERIC SORBENTS FOR REACTIVE GASES
The specification of which:	
☐ is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application I filed on March 10, 2017	No. PCT/US2017/021850
The above-identified application was made or auth	orized to be made by me.
	ent made in this declaration is punishable under 18 U.S.C. 1001 by
termination of, my employment with 3M COMPAN all Letters Patent, reexaminations, reissues, or extended (including the right to apply for Letters Patrown name and to claim any priority rights for such international conventions, treaties, or otherwise).	ich improvement is made during, or within one year after the Y and any of its existing or future subsidiaries), and in and to any and tensions thereof, of the United States of America and countries foreignent, Utility Models, or Inventors' Certificates in foreign countries in its foreign applications to which such applications are entitled under which have been or may be granted thereon or on any divisional, hination, reissue, or other or further application based in whole or in eon, to be held and enjoyed as fully and exclusively as they would
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have been by me had this assignment and transfe I do further agree for myself and for my heirs, exe- consideration any further applications, assignmen that may be deemed necessary by said Company and interest as aforesaid and to obtain or maintair	cutors, and administrators, to execute and deliver without further ts, and documents, and to perform such other acts as I lawfully may, life successors, assigns, and nominees, fully to secure its right, title.
have been by me had this assignment and transfer I do further agree for myself and for my heirs, execonsideration any further applications, assignment that may be deemed necessary by said Company and interest as aforesaid and to obtain or maintain countries; and I do hereby authorize and request the Commission granted upon any of the said applications, to said	cutors, and administrators, to execute and deliver without further ts, and documents, and to perform such other acts as I lawfully may, its successors, assigns, and nominees, fully to secure its right, title, I Letters Patent, Utility Models, or Inventors' Certificates in any and a
have been by me had this assignment and transfer to further agree for myself and for my heirs, exectonsideration any further applications, assignment that may be deemed necessary by said Company and interest as aforesaid and to obtain or maintain countries; and do hereby authorize and request the Commission and applications, to said the part interest therein. Legal Name of Inventor: Neal A. Rakow	cutors, and administrators, to execute and deliver without further ts, and documents, and to perform such other acts as I lawfully may, its successors, assigns, and nominees, fully to secure its right, title, I Letters Patent, Utility Models, or Inventors' Certificates in any and a ner of Patents to issue any and all Letters Patent which may be 3M Innovative Properties Company, as the assignee of the entire rig
have been by me had this assignment and transfer to further agree for myself and for my heirs, execonsideration any further applications, assignment that may be deemed necessary by said Company and interest as aforesaid and to obtain or maintain countries; and to hereby authorize and request the Commission granted upon any of the said applications, to said the land interest therein.	cutors, and administrators, to execute and deliver without further ts, and documents, and to perform such other acts as I lawfully may, its successors, assigns, and nominees, fully to secure its right, title, I Letters Patent, Utility Models, or Inventors' Certificates in any and a

RECORDED: 04/01/2019 REEL: 048752 FRAME: 0140