505812761 12/10/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5859590

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GREGG D. DAHLKE	10/03/2019
DENIS DUCHESNE	10/03/2019
KLAUS HINTZER	10/09/2019
MARKUS E. HIRSCHBERG	10/08/2019
KAI H. LOCHHAAS	10/04/2019
ARNE THALER	10/04/2019
TILMAN C. ZIPPLIES	10/09/2019

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:	15762267

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.

Phone: 651-733-1500

Email: jmcourtney@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER:	76477US004
NAME OF SUBMITTER:	JOYCE M. COURTNEY
SIGNATURE:	/Joyce M. Courtney/
DATE SIGNED:	12/10/2019

PATENT 505812761 REEL: 051233 FRAME: 0748

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 7

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Case No:

76477US004

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:

METHOD		MER OF TETRAF PENDANT GRO	LUOROETHYLENE HAVING JUPS
The specification of	which:		
is attached her	reto;		
was filed on as United State	March 22, 2018 es Application No.		15/762267
is identified as filed on	PCT International Application No September 22, 2016	>.	PCT/US2016/053104
The above-identified	d application was made or author	rized to be made by r	ne.
fine or imprisonment in addition, for good and do hereby assigned assigns, the entire recontinuation (in who by me or made joint termination of, my eall Letters Patent, rethereto (including thown name and to clinternational convertiment.	It of not more than 5 years, or both and valuable consideration, receips and transfer unto the 3M INNO 1 a corporation of Delaware, having the title, and interest in and to the or in part) of said application, all with others (provided any such imployment with 3M COMPANY are aminations, reissues, or extense right to apply for Letters Patentaim any priority rights for such for tions, treaties, or otherwise), white	th. aipt of which is ackno DVATIVE PROPERT ng its principal office ne said invention and and in and to any and improvement is man and any of its existing asions thereof, of the t, Utility Models, or In reign applications to ich have been or ma	wiedged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or d all improvements in the said invention made during, or within one year after the g or future subsidiaries), and in and to any and United States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled under y be granted thereon or on any divisional,
part upon the said in have been by me had I do further agree fo consideration any fu	nvention or improvements thereo ad this assignment and transfer n or myself and for my heirs, execut arther applications, assignments,	n, to be held and enj not been made; tors, and administrate and documents, and	er or further application based in whole or in oyed as fully and exclusively as they would brs, to execute and deliver without further to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title,
			Models, or Inventors' Certificates in any and all
I do hereby authoriz granted upon any o title, and interest the	f the said applications, to said 3N	r of Patents to issue a Innovative Propertie	any and all Letters Patent which may be as Company, as the assignee of the entire right
Legal Name of Inv	entor:		
Gregg D. Dahl	ke		
Inventor's Signatu	18 :	Date:	
Dage 1	r 2928h	0,4 \$	2019

Case No:

76477US004

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:

	METHOD O	F MAKING A COPOLYMER (SULFONYL PEN		FLUOROETHYLENE HAVING OUPS	
The	specification of wh	ich:			
	is attached hereto	Ķ.			
\boxtimes	was filed on as United States /	March 22, 2018 Application No.		15/762267	
\boxtimes	is identified as PC filed on	T International Application No. September 22, 2016		PCT/US2016/053104	
The	above-identified ap	oplication was made or authorized to	be made by	me.	
		that any willful false statement made f not more than 5 years, or both.	in this declar	ation is punishable under 18 U.S.C. 1001 by	
3M C assig conti by m term all Lo there own inter conti part have	COMPANY, and a gns, the entire righ inuation (in whole in the or made jointly vination of, my empetters Patent, reexisto (including the riname and to claim national conventionation (in whole inuation the said invested been by me had the further agree for metional conventional conventional conventional conventional conventional conventional inuation (in whole inuation the said invested further agree for metions.)	corporation of Delaware, having its p t, title, and interest in and to the said or in part) of said application, and in with others (provided any such impro alloyment with 3M COMPANY and an aminations, reissues, or extensions t ight to apply for Letters Patent, Utility any priority rights for such foreign a ns, treaties, or otherwise), which hav or in part), renewal, reexamination, re intion or improvements thereon, to be this assignment and transfer not bee	orincipal office invention and and to any an vement is may of its existing thereof, of the Models, or Ir ipplications to be been or mae issue, or othe held and en made;	TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and I application, and in and to any division or d all improvements in the said invention made de during, or within one year after the g or future subsidiaries), and in and to any an United States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled under ly be granted thereon or on any divisional, er or further application based in whole or in loyed as fully and exclusively as they would ors, to execute and deliver without further	e di
cons that and	sideration any furth may be deemed no	er applications, assignments, and do ecessary by said Company, its succe	ocuments, and essors, assigr	I to perform such other acts as I lawfully may, is, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and a	
gran		e said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire rig	ħ
Leg	jal Name of Invent	or:			
	nis Duchesne		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Invi	entor's Signature	7	Date:		
	Dui 6),	10-	3-2019	

Case No:

76477US004

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:

METHOD OF MAKING A COPOLYMER OF TETRAFLUOROETHYLENE HAVING SULFONYL PENDANT GROUPS The specification of which: is attached hereto; was filed on March 22, 2018 as United States Application No. Is identified as PCT International Application No. PCT/US2016/053104 Filed on September 22, 2016

The above-identified application was made or authorized to be made by me.

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 5 years, or both.

In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer 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, title, and interest therein.

20000	Legal Name of Inventor.	
Same	Klaus Hintzer	
***************************************	Inventor's Signature:	Date:
š		

Case No:

76477US004

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:

METHOD OF MAKING A COPOLYMER OF TETRAFLUOROETHYLENE HAVING SULFONYL PENDANT GROUPS

SULFUNYL PENDAR	VI GROUPS
The specification of which:	
is attached hereto;	
	15/762267
is identified as PCT International Application No. filed on September 22, 2016	PCT/US2016/053104
The above-identified application was made or authorized to be n	nade by me.
I hereby acknowledge that any willful false statement made in th fine or imprisonment of not more than 5 years, or both.	is declaration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which and do hereby assign and transfer unto the 3M INNOVATIVE PF 3M COMPANY, and a corporation of Delaware, having its principassigns, the entire right, title, and interest in and to the said invercent continuation (in whole or in part) of said application, and in and to by me or made jointly with others (provided any such improvement termination of, my employment with 3M COMPANY and any of it all Letters Patent, reexaminations, reissues, or extensions thereofthereto (including the right to apply for Letters Patent, Utility Modown name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have been continuation (in whole or in part), renewal, reexamination, reissue part upon the said invention or improvements thereon, to be held have been by me had this assignment and transfer not been made.	ROPERTIES COMPANY, a wholly-owned subsidiary of pal office at Saint Paul, Minnesota, its successors and intion and application, and in and to any division or o any and all improvements in the said invention made ant is made during, or within one year after the its existing or future subsidiaries), and in and to any and of, of the United States of America and countries foreign lels, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under an or may be granted thereon or on any divisional, e, or other or further application based in whole or in and enjoyed as fully and exclusively as they would
I do further agree for myself and for my heirs, executors, and adiconsideration any further applications, assignments, and docume that may be deemed necessary by said Company, its successor and interest as aforesaid and to obtain or maintain Letters Paten countries; and	ents, and to perform such other acts as I lawfully may, s, assigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents granted upon any of the said applications, to said 3M Innovative title, and interest therein.	to issue any and all Letters Patent which may be Properties Company, as the assignee of the entire right,
Legal Name of Inventor:	
Markus E. Hirschberg	
Inventor's Signature: Date	3,
1/2-7-18	7.10.19
April 1 September	

Case No:

76477US004

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:

	METHOD C	F MAKING A COPOLYMER SULFONYL PE			IYLENE HAVING	
The	specification of wi	hich:		and the state of t	·····	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
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(ZS)	was filed on	March 22, 2018			•••••	***************************************
	as United States	Application No.		15/762267		
\boxtimes	is identified as PC	T International Application No.		PCT/US2016	://nex1na	***************************************
	filed on	September 22, 2016		1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	MANA I A.A.	
her îne n ac	reby acknowledge or imprisonment o ddition, for good ar	pplication was made or authorized that any willful false statement made not more than 5 years, or both and valuable consideration, receipt and transfer unto the 3M INNOVA.	de in this declar	ration is punisha owledged. I hav	e agreed to assign ar	nd transfer
essign on the continuation of the continuation	gns, the entire right inuation (in whole ination of, my empetters Patent, reex ato (including the right national conventionation (in whole upon the said inve	corporation of Delaware, having itself, title, and interest in and to the sale or in part) of said application, and it with others (provided any such impologment with 3M COMPANY and attainations, reissues, or extension light to apply for Letters Patent, Ution any priority rights for such foreigners, treaties, or otherwise), which hor in part), renewal, reexamination ention or improvements thereon, to this assignment and transfer not be	id invention and in and to any ar rovement is mater any of its existing the street, of the lifty Models, or lift applications to ave been or mater and ended ended and ended and ended and ended end	d application, and all improvemend all improvemend de during, or with gor future subset United States on the control of the granted the properties of the granted the core further appears or further appears and all improvements appears and all improvements and all improvements appears and all improvements and all improvements appears and all improvements and all improveme	id in and to any division in the said invent thin one year after the idiaries), and in and to America and countrates in foreign count plications are entitled ereon or on any division based in who	on or ion made o any and ies foreign ries in its under onal, sie or in
ons hat and	ideration any furth may be deemed n	nyself and for my heirs, executors, ier applications, assignments, and ecessary by said Company, its suc aid and to obtain or maintain Letter	documents, and cessors, assign	d to perform suc ns, and nominee	h other acts as I lawfi s. fully to secure its ri	ully may, oht. title.
leu.	hereby authorize a ted upon any of th and interest therei	and request the Commissioner of F e said applications, to said 3M Inn in.	atents to issue ovative Properti	any and all Letti es Company, as	ers Patent which may the assignee of the	be entire right,
Leg	al Name of Invent	OF.	unumminimana minimate			annamana .
Ka	i H. Lochhaas					X
inve	antor's Signature:		Date:	·····		
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PATENT

REEL: 051233 FRAME: 0754

Case No:

76477US004

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:

METHOD OF MAKING A COPOLYMER OF TETRAFLUOROETHYLENE HAVING

SULFONYL PENDANT GROUPS The specification of which: is attached hereto; was filed on March 22, 2018 as United States Application No. is identified as PCT International Application No. filed on September 22, 2016

The above-identified application was made or authorized to be made by me.

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 5 years, or both.

In addition, for good and valuable consideration, receipt of which is acknowledged. I have agreed to assign and transfer 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, title, and interest therein.

Legal Name of Inventor:	
Arne Thaler	
Inventor's Signature:	Date:
Many Thalam	Gendonfi 4,10.2019

Case No:

76477US004

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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1912. 3 3 1 1 1 1	SULFONYL PENDAI	VT GROUPS
The specification o	f which:	
is attached heret	o;	
was filed on	March 22, 2018	
as United Stat	res Application No.	15/762267
is identified as PCT International Application No.		PCT/US2016/053104
filed on	September 22, 2016	
The above-identifie	ed application was made or authorized to b	e made by me.
	dge that any willful false statement made in nt of not more than 5 years, or both.	this declaration is punishable under 18 U.S.C. 1001 by
transfer and do he subsidiary of 3M C	reby assign and transfer unto the 3M INNC OMPANY, and a corporation of Delaware,	nich is acknowledged, I have agreed to assign and NATIVE PROPERTIES COMPANY, a wholly-owned having its principal office at Saint Paul, Minnesota, its 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 title and interest therein

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Legal Name of Inventor:				
Tilman C. Zipplies				
Inventor's Signature:	Date:			one rece
Tiluan C Ryski	9.	10-19	PATENT	
RECORDED: 12/10/2019 //	***************************************	REEL: 0	51233 FRAME	: 0756