504814243 03/12/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4860978

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MATTHEW S. STAY	01/12/2018
SHAWN C. DODDS	01/10/2018
LUKE A. SCHROEDER	01/23/2017
JOAN M. NOYOLA	01/10/2018
NICHOLAS D. PETKOVICH	01/16/2018
MATTHEW H. FREY	02/21/2018
CRAIG R. SCHARDT	01/11/2018
MIKHAIL L. PEKUROVSKY	03/09/2018
ANN M. GILMAN	01/10/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15759246

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: jlanderson6@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

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

ATTORNEY DOCKET NUMBER:	76977US008
NAME OF SUBMITTER:	JAMIE L. ANDERSON

PATENT 504814243 REEL: 045171 FRAME: 0903

SIGNATURE:	/Jamie L. Anderson/	
DATE SIGNED: 03/12/2018		
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 9	·	
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source=Declaration_76977US008#page2.tif		
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Case No:

76977US008

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:

Attended to the appearance of the tree of	
	ONDUCTIVE LAYER AND METHODS
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on September 12, 2016	PCT/US2016/051322
The above-identified application was made or authorize	d to be made by me.
fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt and do hereby assign and transfer unto the 3M INNOVA 3M 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 implementation of, my employment with 3M COMPANY and all Letters Patent, reexaminations, reissues, or extension thereto (including the right to apply for Letters Patent, Upown name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which continuation (in whole or in part), renewal, reexamination	any of its existing or future subsidiaries), and in and to any and ins thereof, of the United States of America and countries foreign tility Models, or Inventors' Certificates in foreign countries in its gn 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 below and enjoyed as fully and exclusively as they would
consideration any further applications, assignments, and that may be deemed necessary by said Company, its su	s, and administrators, to execute and deliver without further d documents, and to perform such other acts as I lawfully may, uccessors, assigns, and nominees, fully to secure its right, title, ers Patent, Utility Models, or Inventors' Certificates in any and all
	Patents to issue any and all Letters Patent which may be novative Properties Company, as the assignee of the entire right
Legal Name of Inventor:	
Matthew S. Stay	
Inventor's Signature:	Date:
	1/12/2018

Case No:

76977US008

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:

OVERCOATED PATTERNED CONDUCTIVE LAYER AND METHODS
The specification of which:
is attached hereto;
was filed on as United States Application No.
is identified as PCT International Application No. PCT/US2016/051322 September 12, 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:
Shawn C. Dodds
Inventor's Signature: Date:
86,266 Jan 10th, 2018

Case No:

76977US008

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:

35	
OVERCOATED PATTERNED CONDUCTIVE I	AYER AND METHODS
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on September 12, 2016	PCT/US2016/051322
The above-identified application was made or authorized to be made by	me.
hereby acknowledge that any willful false statement made in this declar fine or imprisonment of not more than 5 years, or both.	ation is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVATIVE PROPERT 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention and continuation (in whole or in part) of said application, and in and to any are by me or made jointly with others (provided any such improvement is materination of, my employment with 3M COMPANY and any of its existing all Letters Patent, reexaminations, reissues, or extensions thereof, of the chereto (including the right to apply for Letters Patent, Utility Models, or leaven name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or material upon the said invention or improvements thereon, to be held and entitle been by me had this assignment and transfer not been made;	e at Saint Paul, Minnesota, its successors and disapplication, and in and to any division or ad all improvements in the said invention made ade during, or within one year after the ag 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 by be granted thereon or on any divisional, er or further application based in whole or in joyed as fully and exclusively as they would ors, to execute and deliver without further
consideration any further applications, assignments, and documents, and hat may be deemed necessary by said Company, its successors, assigned interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	to perform such other acts as I lawfully may, and nominees, fully to secure its right, title,
do hereby authorize and request the Commissioner of Patents to issue granted upon any of the said applications, to said 3M Innovative Propertiitle, and interest therein.	
Legal Name of Inventor:	
Luke a. Schroeder	
Inventor's Signature: Date: 1/23	12017

Case No:

76977US008

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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The	specification of wi				-
	is attached heret				
	was filed on as United States	Application No.			
\boxtimes	is identified as Po	CT International Application No. September 12, 2016		PCT/US2016/051322	-
The	above-identified a	pplication was made or authorized to	be made by	me.	
her ine :	eby acknowledge or imprisonment o	that any willful false statement made f not more than 5 years, or both.	in this decla	ration is punishable under 18 U.S.C. 1001 by	
BM (assignontion by mermall Le here own nteri contionart nave	COMPANY, and a gns, the entire right inuation (in whole the or made jointly ination of, my empetters Patent, reexpeto (including the remaisonal conventionational conventionation (in whole upon the said invested in the s	corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in with others (provided any such improblement with 3M COMPANY and an aminations, reissues, or extensions fight to apply for Letters Patent, Utility in any priority rights for such foreign a large treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not bee	orincipal officition and to any and to any and to any and the existing of the	TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and d application, and in and to any division or nd all improvements in the said invention made ade during, or within one year after the ng or future subsidiaries), and in and to any and e United States of America and countries foreig inventors' Certificates in foreign countries in its to which such applications are entitled under ay be granted thereon or on any divisional, her or further application based in whole or in hipoyed as fully and exclusively as they would	
cons hat i and i	ideration any furth may be deemed n	ter applications, assignments, and do ecessary by said Company, its succe	ocuments, an essors, assig	tors, to execute and deliver without further d to perform such other acts as I lawfully may, ns, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and al	
grani	hereby authorize a ted upon any of th and interest there	e said applications, to said 3M Innov	ents to issue ative Propert	any and all Letters Patent which may be ies Company, as the assignee of the entire righ	H
Leg	al Name of Invent	Or:	······································		
Jo	an M. Noyol	a		anna ann an ann ann ann ann ann ann ann	
	antor's Signature:		Date:		
			1/	0/18	

Case No:

76977US008

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;

OVERCOATED PATTERNED CONDUCTIVE L	AYER AND METHODS
The specification of which:	A CONTRACTOR OF THE CONTRACTOR
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. September 12, 2016	PCT/US2016/051322
The above-identified application was made or authorized to be made by r	ne.
I hereby acknowledge that any willful false statement made in this declara fine or imprisonment of not more than 5 years, or both.	ation is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is acknowned and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTION COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention and continuation (in whole or in part) of said application, and in and to any and by me or made jointly with others (provided any such improvement is made termination of, my employment with 3M COMPANY and any of its existing all Letters Patent, reexaminations, reissues, or extensions thereof, of the thereto (including the right to apply for Letters Patent, Utility Models, or in own name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or may continuation (in whole or in part), renewal, reexamination, reissue, or other part upon the said invention or improvements thereon, to be held and enjoyed been by me had this assignment and transfer not been made;	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 ventors' Certificates in foreign countries in its which such applications are entitled underly be granted thereon or on any divisional, er or further application based in whole or in
I do further agree for myself and for my heirs, executors, and administrate consideration any further applications, assignments, and documents, and that may be deemed necessary by said Company, its successors, assignand interest as aforesaid and to obtain or maintain Letters Patent, Utility Recountries; and	to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to issue a granted upon any of the said applications, to said 3M Innovative Propertie title, and interest therein.	any and all Letters Patent which may be es Company, as the assignee of the entire right,
Legal Name of Inventor:	
Nicholas D. Petkovich	
Inventor's Signature: Date:	116/18

Case No:

76977US008

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:

OVERCO	DATED PATTERNED CON	IDUCTIVE LAYER AND METHODS
The specification of which		
is attached hereto;		
was filed on		
as United States App	dication No.	
	nternational Application No. eptember 12, 2016	PCT/US2016/051322
The above-identified appli	cation was made or authorized to	o be made by me.
I hereby acknowledge that fine or imprisonment of no	t any willful false statement made t more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign and 3M COMPANY, and a corp assigns, the entire right, tit continuation (in whole or in by me or made jointly with termination of, my employ all Letters Patent, reexami thereto (including the right own name and to claim an international conventions, continuation (in whole or in part upon the said invention	transfer unto the 3M INNOVATIVe poration of Delaware, having its pile, and interest in and to the said in part) of said application, and in others (provided any such improment with 3M COMPANY and an inations, reissues, or extensions to apply for Letters Patent, Utility by priority rights for such foreign attreaties, or otherwise), which have part), renewal, reexamination, re-	which is acknowledged, I have agreed to assign and transfer VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and divention and application, and in and to any division or and to any and all improvements in the said invention made overnent is made during, or within one year after the made overnent is made during, or within one year after the made overnent is made during, or within one year after the made overnent is made during, or within one year after the made overnent is made during, or within one year after the made in the end of the United States of America and countries foreign y Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under we been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would be made;
consideration any further a that may be deemed nece:	applications, assignments, and do ssary by said Company, its succe	nd administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully may, essors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
do hereby authorize and granted upon any of the sa gitte, and interest therein.	request the Commissioner of Pat aid applications, to said 3M Innov	tents to issue any and all Letters Patent which may be /ative Properties Company, as the assignee of the entire right,
Legal Name of Inventor:		
Matthew H. Frey		
Inventor's Signature:		Date:
Manhey	K. H.	February 21, 2018

Case No:

76977US008

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:

2 Control of the cont	
OVERCOATED PATTERNED CONDUCTIVE I	LAYER AND METHODS
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
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The above-identified application was made or authorized to be made by	me.
I hereby acknowledge that any willful false statement made in this declar fine or imprisonment of not more than 5 years, or both.	ration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVATIVE PROPERT 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention and continuation (in whole or in part) of said application, and in and to any are by me or made jointly with others (provided any such improvement is matermination of, my employment with 3M COMPANY and any of its existing all Letters Patent, reexaminations, reissues, or extensions thereof, of the other thereto (including the right to apply for Letters Patent, Utility Models, or Industrial conventions, treaties, or otherwise), which have been or maternational conventions, treaties, or otherwise), which have been or maternation (in whole or in part), renewal, reexamination, reissue, or otherwise) and the said invention or improvements thereon, to be held and enhave been by me had this assignment and transfer not been made;	e at Saint Paul, Minnesota, its successors and dapplication, and in and to any division or and all improvements in the said invention made ade during, or within one year after the ag or future subsidiaries), and in and to any and a United States of America and countries foreign inventors' Certificates in foreign countries in its which such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in
I do further agree for myself and for my heirs, executors, and administrat consideration any further applications, assignments, and documents, and that may be deemed necessary by said Company, its successors, assignand interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	d to perform such other acts as I lawfully may, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to issue granted upon any of the said applications, to said 3M Innovative Propertititle, and interest therein.	any and all Letters Patent which may be les Company, as the assignee of the entire right
Legal Name of Inventor:	
Craig R. Schardt	
Inventor's Signature: Date:	N 11, 2018

Case No:

76977US008

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;

OVER	COATED PATTERNED CON	DUCTIVE L	AYER AND METHODS
The specification of wh	ich:		
is attached hereto	;		
was filed on as United States	Application No.		
is identified as PC filed on	T International Application No. September 12, 2016		PCT/US2016/051322
The above-identified a	oplication was made or authorized to	be made by n	ne.
	that any willful false statement made not more than 5 years, or both.	in this declara	ation is punishable under 18 U.S.C. 1001 by
and do hereby assign a 3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly vermination of, my empall Letters Patent, reex thereto (including the right own name and to claim international convention continuation (in whole part upon the said invenave been by me had a do further agree for monsideration any furth	and transfer unto the 3M INNOVATIVe corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in with others (provided any such improvided any such improvided any such improvided any such improving to apply for Letters Patent, Utility in any priority rights for such foreign ans, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not be any self and for my heirs, executors, and dependent of the papelications, assignments, and dependent in the part of the papelications, assignments, and dependent in the part of the papelications, assignments, and dependent in the part of	VE PROPERTION INCOME INVENTION AND AND AND AND AND AND AND AND AND AN	wledged, I have agreed to assign and transfer ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or diall improvements in the said invention made de during, or within one year after the gor 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 to be granted thereon or on any divisional, are or further application based in whole or in boyed as fully and exclusively as they would one, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title,
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I do hereby authorize a granted upon any of th title, and interest there	e said applications, to said 3M Innov	tents to issue a vative Propertie	any and all Letters Patent which may be as Company, as the assignee of the entire right,
Legal Name of Invent	or.		
Mikhail L. Peku	irovsky		
Inventor's Signature:	Relear VS Reg	Date:	19/18

Case No:

76977US008

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:

OVE	RCOATED PATTERNED CON	DUCTIVE L	AYER AND METHODS
The specification of wh	nich:		
is attached hereto	0 ;		
was filed on			
as United States	Application No.		
	CT International Application No.		PCT/US2016/051322
filed on	September 12, 2016		
The above-identified a	pplication was made or authorized to	be made by r	ne.
	that any willful false statement made f not more than 5 years, or both.	in this declara	ation is punishable under 18 U.S.C. 1001 by
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	e said applications, to said 3M Innove		any and all Letters Patent which may be es Company, as the assignee of the entire righ
Legal Name of Inven	tor:		
Ann M. Gilman	1		
Inventor's Signature:		Date:	
Gran M	2. <i>11.</i>	01/10/	**************************************

PATENT REEL: 045171 FRAME: 0913

RECORDED: 03/12/2018