504137124 12/20/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 EPAS ID: PAT4193411 Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADAM D. MILLER	12/06/2016
MATTHEW H. FREY	11/07/2016
DANIEL E. ISAACSON	11/08/2016
JONATHAN E. JAOSKI	12/20/2016

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15320516

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: cmwagner01@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: 75036US007

NAME OF SUBMITTER: COLLEEN M. WAGNER

SIGNATURE: /Colleen M. Wagner/

DATE SIGNED: 12/20/2016

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

Total Attachments: 4

PATENT REEL: 040690 FRAME: 0027

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Case No:

75036US007

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:

	A POLYOXOMETALATE AND METHODS OF G SAME
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on June 22, 2015	PCT/US2015/036919
The above-identified application was made or authorized to	o be made by me.
I hereby acknowledge that any willful false statement made fine or imprisonment of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVATI' 3M COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the said continuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such improtermination of, my employment with 3M COMPANY and ar all Letters Patent, reexaminations, reissues, or extensions	and to any and all improvements in the said invention made overment is made during, or within one year after the by of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign by 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 be held and enjoyed as fully and exclusively as they would
that may be deemed necessary by said Company, its succ	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
I do hereby authorize and request the Commissioner of Pa granted upon any of the said applications, to said 3M Innovititle, and interest therein.	stents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right,
Legal Name of Inventor:	anning the same of
Adam D. Miller	mun
Inventor's Signature:	Date:
Ale D Mille	12/6/2016

Case No:

75036US007

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:

PHOTOCHROMIC ARTICLES CONTAINING A POLYOXOMETALATE AND METHODS OF **MAKING SAME** The specification of which: is attached hereto: was filed on as United States Application No. is identified as PCT International Application No. PCT/US2015/036919 filed on June 22, 2015 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: Matthew H. Frey Inventor's Signature: Date: Nov. 7 2016 Mutthew t. Tre,

Case No:

75036US007

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:

PHOTOCHROM		A POLYOXOMETALATE AND METHODS OF SAME
The specification of w	hich:	
is attached here	to;	
was filed on as United States	Application No.	
is identified as F filed on	CT International Application No. June 22, 2015	PCT/US2015/036919
The above-identified	application was made or authorized 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
and do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, ree thereto (including the own name and to clai international conventicontinuation (in whole part upon the said inventional conventional continuation).	and transfer unto the 3M INNOVATIVE accorporation 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 improposed in the property of the provided any such improposed in the provided and such in the provided and any such improposed in the provided	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 d invention and application, and in and to any division or and to any and all improvements in the said invention made evement is made during, or within one year after the made of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign by 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 en made;
consideration any furt that may be deemed	ther applications, assignments, and dencessary by said Company, its succ	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
I do hereby authorize granted upon any of t title, and interest then	he said applications, to said 3M Innov	tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right
Legal Name of Inver	ntor:	A A CONTRACTOR OF THE CONTRACT
Daniel E. Isaacs		
Inventor's Signature		Date:
En. 150	n Co Con un	11/8/16

Case No:

75036US007

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:

PHOTOCHROMI	C ARTICLES CONTAINING A MAKING		OMETALATE AND METHODS C)F
The specification of wh	ich:		•	
is attached hereto	1			
was filed on as United States A	Application No.			
is identified as PC filed on	T International Application No. June 22, 2015		PCT/US2015/036919	
The above-identified ap	oplication was made or authorized to	be made by r	me.	
	hat any willful false statement made not more than 5 years, or both.	in this declara	ation is punishable under 18 U.S.C. 100	1 by
and do hereby assign a 3M COMPANY, and a cassigns, the entire right continuation (in whole oby me or made jointly was termination of, my empall Letters Patent, reexithereto (including the riown name and to claim international convention continuation (in whole opart upon the said invehave been by me had to do further agree for many further to the said invehave to the said invehave been by me had the said further agree for many further the said invehave the sa	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 improdoyment with 3M COMPANY and an aminations, reissues, or extensions to ght to apply for Letters Patent, Utility any priority rights for such foreign ans, treaties, or otherwise), which have in part), renewal, reexamination, rention or improvements thereon, to be his assignment and transfer not bee syself and for my heirs, executors, and according to the policity of the part applications, assignments, and do	VE PROPERT orincipal office I invention and and to any an ovement is many of its existing thereof, of the Woodels, or Inapplications to been or many eissue, or other held and enjurn made;	owledged, I have agreed to assign and to TES COMPANY, a wholly-owned subside at Saint Paul, Minnesota, its successored application, and in and to any division of all improvements in the said invention de during, or within one year after the gor future subsidiaries), and in and to a United States of America and countries which such applications are entitled under the goard the such applications are entitled under the granted thereon or on any divisional error further application based in whole ground as fully and exclusively as they would be considered the perform such other acts as I lawfully the performance in the lawfully the lawf	liary of s and or made my and foreign in its der al, ould
			is, and nominees, fully to secure its right Models, or Inventors' Certificates in any	
	e said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the ent	
Legal Name of Invent	or:			
Jonathan E. Jano	oski			
Inventor's Signature:	1 Edanoshi	Date:	-20-20 6	

PATENT REEL: 040690 FRAME: 0032

RECORDED: 12/20/2016