# 505212690 11/30/2018

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5259457

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
HASSAN SAHOUANI	09/20/2018
YING LIN	09/21/2018
MARY M. CARUSO DAILEY	09/20/2018
JING FANG	09/21/2018
KIM M. VOGEL	09/20/2018
MICHAEL A. KROPP	09/24/2018
MATTHEW J. KRYGER	09/19/2018

#### **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:	16305907

#### **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: 78428US005	
NAME OF SUBMITTER:	COLLEEN M. WAGNER
SIGNATURE:	/Colleen M. Wagner/
DATE SIGNED:	11/30/2018

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

## **Total Attachments: 7**

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Case No:

78428US005

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:

CURABLE CO	MPOSITIONS INCLUDING A C METH		IC NETWORK, ARTICLES, AND
The specification of wh	ìch:		
is attached hereto	Ç.		
was filed on as United States	Application No.		
is identified as PC filed on	T International Application No.  June 21, 2017		PCT/US2017/038436
The above-identified a	oplication was made or authorized to	be made by i	me.
	that any willful false statement made not more than 5 years, or both.	in this declar	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 oby me or made jointly vitermination of, my empall Letters Patent, reex thereto (including the riown name and to claim international convention continuation (in whole opart upon the said inverties have been by me had to that may be deemed not and interest as aforesa countries; and	and transfer unto the 3M INNOVATIVe corporation of Delaware, having its protect, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvided any such improvided any such improvided any such improvided and to apply for Letters Patent, Utility in any priority rights for such foreign against treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been expected and for my heirs, executors, and executors by said Company, its succeedid and to obtain or maintain Letters Patent applications, assignment of Patent and request the Commissioner of Patent and request the Commissioner of Patent and applications, to said 3M Innovations.	E PROPERT rincipal office invention and and to any and were the is mary of its existing hereof, of the Models, or ir pplications to a been or makissue, or other held and enjoyments, and existing administrate cuments, and existing latent, Utility I ents to issue:	owledged, 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 dividing, 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 by be granted thereon or on any divisional, are or further application based in whole or in oyed as fully and exclusively as they would bors, to execute and deliver without further a 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 any and all Letters Patent which may be see Company, as the assignee of the entire right
Legal Name of Invent	or:		
Hassan Sahouan	<u>i</u> .		
Inventor's Signature:	3alin	Date:	7/20/2018

Case No:

78428US005

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:

CURABLE C		A CHROMONIC NETWORK, ARTICLES, AND FHODS
The specification of	which:	
is attached here	eto;	
was filed on as United State	s Application No.	
is identified as l	PCT International Application No. June 21, 2017	PCT/US2017/038436
The above-identified	application was made or authorized	to be made by me.
	e that any willful false statement mad of not more than 5 years, or both.	de in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assig 3M COMPANY, and assigns, the entire ri continuation (in who by me or made joint! termination of, my er all Letters Patent, re thereto (including the own name and to clainternational conven continuation (in who part upon the said in have been by me hall do further agree for consideration any futhat may be deemed	n and transfer unto the 3M INNOVAT a corporation of Delaware, having its ght, title, and interest in and to the sale or in part) of said application, and it y with others (provided any such imply mith any priority rights for such foreign tions, treaties, or otherwise), which have or in part), renewal, reexamination, vention or improvements thereon, to do this assignment and transfer not be transfer and for my heirs, executors, arther applications, assignments, and it necessary by said Company, its such services.	of which is acknowledged, I have agreed to assign and transfer TIVE PROPERTIES COMPANY, a wholly-owned subsidiary of a principal office at Saint Paul, Minnesota, its successors and aid invention and application, and in and to any division or in and to any and all improvements in the said invention made provement is made during, or within one year after the any of its existing or future subsidiaries), and in and to any and its thereof, of the United States of America and countries foreign lifty 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, it, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would een made:  and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, occessors, assigns, and nominees, fully to secure its right, title, is Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize	the said applications, to said 3M Inno	Patents to issue any and all Letters Patent which may be lovative Properties Company, as the assignee of the entire righ
Simmonianimonominimon		
Legal Name of Inve	entor:	unnu
Ying Lin	20	Dete
Inventor's Signatur	e.	Date: """

Case No:

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CURABLE COMPOS	• •	CHROMONI HODS	C NETWORK, ARTICLES, AND
The specification of which:			
is attached hereto;			
was filed on as United States Applicat	ion No.		
is identified as PCT Intern	national Application No. 21, 2017		PCT/US2017/038436
The above-identified application	on was made or authorized to	o be made by m	e.
I hereby acknowledge that any fine or imprisonment of not mo		e in this declarat	ion is punishable under 18 U.S.C. 1001 by
and do hereby assign and tran 3M COMPANY, and a corporal assigns, the entire right, title, a continuation (in whole or in par by me or made jointly with other termination of, my employment all Letters Patent, reexaminated thereto (including the right to a own name and to claim any printernational conventions, treat continuation (in whole or in par	sfer unto the 3M INNOVATI tion of Delaware, having its and interest in and to the said rt) of said application, and in ers (provided any such impro t with 3M COMPANY and ar ons, reissues, or extensions apply for Letters Patent, Utilit fority rights for such foreign ties, or otherwise), which ha rt), renewal, reexamination, improvements thereon, to be	IVE PROPERTIE principal office a dinvention and a and to any and ovement is made ny of its existing thereof, of the Lty Models, or invapplications to wive been or may reissue, or other be held and enjoyed.	vledged, I have agreed to assign and transfer IS COMPANY, a wholly-owned subsidiary of it Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made a during, or within one year after the or future subsidiaries), and in and to any and Inited States of America and countries foreign entors' Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, or further application based in whole or in yed as fully and exclusively as they would
consideration any further appli that may be deemed necessar	cations, assignments, and d y by said Company, its succ	locuments, and to cessors, assigns	s, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, odels, or Inventors' Certificates in any and all
I do hereby authorize and requi granted upon any of the said a title, and interest therein.	est the Commissioner of Pa opplications, to said 3M Inno	atents to issue a vative Properties	ny and all Letters Patent which may be Company, as the assignee of the entire right
Legal Name of Inventor:			
Mary M. Caruso Dailey			
Inventor's Signature:	<i>(</i> *\	Date:	
Mary M. Canu	co Dailey	9/20	118

Case No:

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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:

	G A CHROMONIC NETWORK, ARTICLES, AND IETHODS
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 21, 2017	PCT/US2017/038436
The above-identified application was made or authority	zed to be made by me:
I hereby acknowledge that any willful false statement fine or imprisonment of not more than 5 years, or both	made in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNO 3M COMPANY, and a corporation of Delaware, havin assigns, the entire right, title, and interest in and to the continuation (in whole or in part) of said application, a by me or made jointly with others (provided any such termination of, my employment with 3M COMPANY a all Letters Patent, reexaminations, reissues, or extens thereto (including the right to apply for Letters Patent, own name and to claim any priority rights for such for international conventions, treaties, or otherwise), whice continuation (in whole or in part), renewal, reexaminal	ipt of which is acknowledged. I have agreed to assign and transfer VATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of gifts principal office at Saint Paul, Minnesota, its successors and e said invention and application, and in and to any division or and in and to any and all improvements in the said invention made improvement is made during, or within one year after the indication of its existing or future subsidiaries), and in and to any and sions thereof, of the United States of America and countries foreign. Utility Models, or Inventors' Certificates in foreign countries in its eign applications to which such applications are entitled under the have been or may be granted thereon or on any divisional, tion, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would be been made;
consideration any further applications, assignments, a that may be deemed necessary by said Company, its	ors, and administrators, to execute and deliver without further and documents, and to perform such other acts as I lawfully may, successors, assigns, and nominees, fully to secure its right, title, atters Patent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize and request the Commissioner granted upon any of the said applications, to said 3M title, and interest therein.	of Patents to issue any and all Letters Patent which may be Innovative Properties Company, as the assignee of the entire righ
Legal Name of Inventor:	
Jing Fang	
Inventor's Signature;	Date:
Ting Fanney nites	2018.9.2

Case No:

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The specification of w	hich:		
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The above-identified a	application was made or authorized t	o be made by	me.
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consideration any furti that may be deemed r	her applications, assignments, and d necessary by said Company, its succ	locuments, an cessors, assigi	ors, 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 all
	ne said applications, to said 3M Inno		any and all Letters Patent which may be es Company, as the assignee of the entire right
Legal Name of Inven	lor.		
Kim M. Vogel	<u>,</u>		
Inventor's Signature:	mVosil	Date:	/20/18

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consideration any furth that may be deemed n	nyself and for my heirs, executors, a ner applications, assignments, and d necessary by said Company, its succ aid and to obtain or maintain Letters	ocuments, and to perform essors, assigns, and nomi	such other acts as I lawfully may, nees, fully to secure its right, title,
	and request the Commissioner of Pa ne said applications, to said 3M Innov in.		
Legal Name of Inven	tor:		
Michael A. Krop	p.		
Inventor's Signature:	~/	Date:	
Hunling	detroy	9/24/18	

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and interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	
I do hereby authorize and request the Commissioner of Patents to issue granted upon any of the said applications, to said 3M Innovative Propertitile, and interest therein.	any and an Eetters Patent which may be les Company, as the assignee of the entire right
Legal Name of Inventor:	
Matthew J. Kryger	
Inventor's Signature: Date;	9/18

PATENT REEL: 047631 FRAME: 0660

**RECORDED: 11/30/2018**