#### 01/21/2020 505872975

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5919803

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
EVAN L. SCHWARTZ	06/05/2019
CLAIRE HARTMANN-THOMPSON	06/03/2019
SONJA S. MACKEY	06/04/2019
WAYNE S. MAHONEY	06/04/2019
SASWATA CHAKRABORTY	06/05/2019
KELLY A. VOLP	06/04/2019

#### **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:	16631201	

#### **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: kelfstrom@mmm.com

3M INNOVATIVE PROPERTIES COMPANY **Correspondent Name:** 

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER:	79520US005
NAME OF SUBMITTER:	KIM ELFSTROM
SIGNATURE:	/Kim Elfstrom/
DATE SIGNED:	01/21/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

**PATENT REEL: 051562 FRAME: 0705** 

505872975

# **Total Attachments: 6** source=Declaration-Signed-79520WO003#page1.tif source=Declaration-Signed-79520WO003#page2.tif source=Declaration-Signed-79520WO003#page3.tif

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Case No:

79520WO003

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 Hig		ositions and Articles Prepared From the Ink positions
The specification of	which:	
is attached her	eto;	
was filed on as United State	es Application No.	
is identified as filed on	PCT International Application No.  July 23, 2018	PCT/US2018/043231
The above-identified	application was made or authorized	to be made by me.
and do hereby assig 3M COMPANY, and assigns, the entire ricontinuation (in who by me or made joint termination of, my erall Letters Patent, rethereto (including the own name and to clainternational convencontinuation (in who part upon the said in have been by me had to further agree for consideration any futhat may be deemed and interest as afore countries, and	n and transfer unto the 3M INNOVAT a corporation of Delaware, having its ght, title, and interest in and to the saile or in part) of said application, and in y with others (provided any such import meloyment with 3M COMPANY and a examinations, reissues, or extensions e right to apply for Letters Patent, Utiliaim any priority rights for such foreign tions, treaties, or otherwise), which have been in part), renewal, reexamination, vention or improvements thereon, to did this assignment and transfer not be a myself and for my heirs, executors, and there applications, assignments, and the said and to obtain or maintain Letters and request the Commissioner of Pithe said applications, to said 3M Innotesin.	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 all 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 a thereof, of the United States of America and countries foreign ity Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under ave 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 seen made;  and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, accessors, assigns, and nominees, fully to secure its right, title, as Patent, Utility Models, or Inventors' Certificates in any and all retents to issue any and all Letters Patent which may be ovative Properties Company, as the assignee of the entire right.
Legal Name of Inve		
Inventor's Signature		Date:
•	r Selwartz	G/5/19

PATENT

REEL: 051562 FRAME: 0707

Case No:

79520VVO003

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 High	Refractive Index Ink Compo: Compo		Articles Prepared From the Ink
The	specification of wi			
	is attached hereti	<b>)</b> ,		
	was filed on as United States	Application No.		
$\boxtimes$	is identified as Po	CT International Application No. July 23, 2018		PCT/US2018/043231
The	above-identified a	pplication was made or authorized to	be made by	me.
in act and 3M (assignments) and term all Lithern own intercont have and courself and courself do gran	ddition, for good a do hereby assign COMPANY, and a gns, the entire right inuation (in whole ne or made jointly nination of, my empeters Patent, reepeto (including the iname and to clair mational conventionation (in whole upon the said invite a been by me had further agree for resideration any furth may be deemed reinterest as aforesintries; and	and transfer unto the 3M INNOVATING 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 improvingment with 3M COMPANY and an taminations, reissues, or extensions right to apply for Letters Patent, Utility in any priority rights for such foreign a long, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been applications, assignments, and delecessary by said Company, its succession of the company its succession of the company its succession and to obtain or maintain Letters and request the Commissioner of Particles and applications, to said 3M innover the company in the company in the company is and request the Commissioner of Particles and applications, to said 3M innover the company in t	VE PROPERT principal office invention and to any ar avernent is made invented in the reof, of the vectors to the pelications to the held and end administration made; and administration patent, Utility tents to issue	owledged, I have agreed to assign and transfer TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and dapplication, and in and to any division or all all 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 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 cors, to execute and deliver without further at to perform such other acts as I lawfully may, as, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all any and all Letters Patent which may be es Company, as the assignee of the entire right,
	gai Name of Inven			
	aire Hartmann	-Thompson	ž. 11. 11. 11. 11. 11. 11. 11. 11. 11. 1	
mv	entor's Signature:		Date:	
	And the second second	Manus.	6	3 - 2019,

Case No:

79520WO003

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		Compositions an Compositions	d Articles Prepared From the In	K
The specificatio	n of which:			
is attached	I hereto;			
was filed o	on States Application No.			
is identified is identified in	d as PCT International Application July 23, 2018	Ño.	PCT/US2018/043231	
The above-iden	tified application was made or auth	norized to be made b	y me.	
ine or imprison n addition, for gand do hereby a BM COMPANY, assigns, the ento continuation (in by me or made ermination of, real letters Pater hereto (includin own name and in ternational con continuation (in part upon the sa	ment of not more than 5 years, or look and valuable consideration, reassign and transfer unto the 3M IN, and a corporation of Delaware, hatire right, title, and interest in and to whole or in part) of said applicatio jointly with others (provided any sum yemployment with 3M COMPAN int, reexaminations, reissues, or exits the right to apply for Letters Pate to claim any priority rights for such exercises, treaties, or otherwise), whole or in part), renewal, reexaminations, treaties, or otherwise), whole or in part), renewal, reexaminations, treaties.	both.  eceipt of which is ack NOVATIVE PROPER aving its principal office the said invention at any and in and to any alch improvement is many and any of its exist tensions thereof, of the ent, Utility Models, or foreign applications which have been or mination, reissue, or of eon, to be held and expended.	aration is punishable under 18 U.S.C. 10 mowledged, I have agreed to assign and RTIES COMPANY, a wholly-owned subsice at Saint Paul, Minnesota, its successond application, and in and to any division and all improvements in the said invention ade during, or within one year after the ing or future subsidiaries), and in and to be United States of America and countries Inventors' Certificates in foreign countries which such applications are entitled unitary be granted thereon or on any division there or further application based in whole injoyed as fully and exclusively as they we	transfer diary of rs and or n made any and s foreigr s in its der al, or in
consideration ar hat may be dee	ny further applications, assignmen emed necessary by said Company	ts, and documents, a , its successors, assi	ators, to execute and deliver without furth nd to perform such other acts as I lawfull gns, and nominees, fully to secure its righ y Models, or Inventors' Certificates in any	y may, it, title,
do hereby auth granted upon ar itle, and interes	ny of the said applications, to said	ner of Patents to issum 3M Innovative Proper	e any and all Letters Patent which may brities Company, as the assignee of the en	∍ tire right
Legal Name of	f Inventor:			
Sonja S. Ma	3			
Inventor's Sign	n Menelly	Date:	04/2019	

Case No:

79520WO003

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 High		sitions and sitions	Articles Prepared From the lnk
The specification of wl	nich:	***************************************	
is attached hereto	o;		
was filed on as United States	Application No.		
is identified as Po	OT International Application No.  July 23, 2018		PCT/US2018/043231
The above-identified a	pplication was made or authorized to	o be made by	mę.
fine or imprisonment of and do hereby assign and do hereby assign am COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to clain international conventio continuation (in whole part upon the said inve	f not more than 5 years, or both.  Indivaluable consideration, receipt of and transfer unto the 3M INNOVATI corporation of Delaware, having its it, title, and interest in and to the said or in part) of said application, and in with others (provided any such improbloyment with 3M COMPANY and ar aminations, reissues, or extensions ight to apply for Letters Patent, Utility any priority rights for such foreign any priority rights for such foreign ans, treaties, or otherwise), which havor in part), renewal, reexamination, renewal, renew	which is acknown of the principal office of invention and to any and to any and the existing thereof, of the y Models, or Irrapplications to we been or mare issue, or othereof and enjected and enjected.	owledged, I have agreed to assign and transfer IES 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 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 oyed as fully and exclusively as they would
consideration any furth that may be deemed n	er applications, assignments, and de ecessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further I 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
do hereby authorize a granted upon any of th iitle, and interest therei	e said applications, to said 3M Innov	tents to issue a rative Propertie	any and all Letters Patent which may be es Company, as the assignee of the entire right
Legal Name of Invent	or:	***************************************	
Wayne S. Mahon	ey		**************************************
Inventor's Signature:	***************************************	Date:	
May S	M. Dan	06/8	4 7 6 iG

Case No:

79520WO003

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 High Refractive Index Ink Compositions and Articles Prepared From the Ink Compositions			
The	specification of wh	ich;		
	is attached hereto	· }		
	was filed on as United States A	Application No.		
$\boxtimes$	is identified as PC filed on	T International Application No.  July 23, 2018		PCT/US2018/043231
The	above-identified ap	oplication was made or authorized to	be made by i	ne.
fine of the fine o	or imprisonment of dition, for good an do hereby assign a COMPANY, and a constitution (in whole constitution of, my empiration of, my empiration of, my empiration and to claim national convention nuation (in whole coupon the said inverse been by me had to	d valuable consideration, receipt of 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 and 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	which is acknow VE PROPERT or incipal office invention and and to any an evement is many of its existing thereof, of the Models, or in applications to be been or male issue, or other held and enjounders.	owledged, I have agreed to assign and transfer IES 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 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 oyed as fully and exclusively as they would
cons that r and i	ideration any furthemay be deemed ne	er applications, assignments, and decessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further ito 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
grant		said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire right,
Leg	al Name of Invento	)[;		
Sas	swata Chakrab	orty		
Inve	entor's Signature:		Date:	
7	201	1000	6151	2019

Case No:

79520WO003

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 High		sitions and ositions	Articles Prepared From the Ink
The	specification of w	hich:		
	is attached heret	o;		
	was filed on as United States	Application No.		
$\boxtimes$	is identified as Pi filed on	CT International Application No. July 23, 2018		PCT/US2018/043231
The	above-identified a	application was made or authorized to	o be made by	me,
l he fine	reby acknowledge or imprisonment c	that any willful false statement made of not more than 5 years, or both.	e in this declar	ation is punishable under 18 U.S.C. 1001 by
and assi cont by n term all L there own inter cont part have	do hereby assign COMPANY, and a gns, the entire right inuation (in whole ne or made jointly hination of, my empetters Patent, reexeto (including the iname and to clair reational conventionation (in whole upon the said invested been by me had	and transfer unto the 3M INNOVATI corporation of Delaware, having its at, title, and interest in and to the said or in part) of said application, and in with others (provided any such improplement with 3M COMPANY and argument to apply for Letters Patent, Utility any priority rights for such foreign any priority rights for such foreign and treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been	VE PROPERT principal officed invention and and to any and overnent is many of its existing thereof, of the y Models, or irrepplications to we been or mare issue, or other held and enjen made;	owledged, I have agreed to assign and transfer IES 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 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, ar or further application based in whole or in oyed as fully and exclusively as they would
cons lhat and	sideration any furtr may be deemed n	er applications, assignments, and di ecessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further it 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
ai ai i	hereby authorize a ted upon any of th and interest there	e said applications, to said 3M Innov	tents to issue : rative Properti	any and all Letters Patent which may be as Company, as the assignee of the entire right
Leg	jal Name of Invent	Of.		
	ily A. Volp			Approx.
Inve	entor's Signature:	NP	Date:	1/19

PATENT REEL: 051562 FRAME: 0712

**RECORDED: 01/21/2020**