506285596 10/02/2020

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6332344

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GREGG A. AMBUR	06/29/2020
BENJAMIN G. SONNEK	07/06/2020
JO A. ETTER	07/05/2020
TIMOTHY L. WONG	07/08/2020
THOMAS P. KLUN	06/29/2020
RICHARD J. POKORNY	06/29/2020
BENJAMIN R. COONCE	06/29/2020
DOUGLAS S. DUNN	06/30/2020
HENRY A. KOSTALIK IV	07/09/2020
CHRISTOPHER S. DEGRAW	06/30/2020
JOHN R. JACOBSON	09/28/2020
CHUNJIE ZHANG	06/26/2020
JUNG-SHENG WU	07/01/2020

#### **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:	17044685

# **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.

Email: lengel@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY Address Line 1: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 2: P.O. BOX 33427

PATENT

506285596 REEL: 053956 FRAME: 0353

Address Line 4: ST. PAUL, MINNESOTA 55133-3427					
ATTORNEY DOCKET NUMBER:	80975US005				
NAME OF SUBMITTER:	LINDA ENGEL				
SIGNATURE:	/Linda Engel/				
DATE SIGNED:	10/02/2020				
	This document serves as an Oath/Declaration (37 CFR 1.63).				
Total Attachments: 13					
source=Fullyexecuted_Decl-Assignme	ent-80975US005#page1.tif				
source=Fullyexecuted_Decl-Assignme	ent-80975US005#page2.tif				
source=Fullyexecuted_Decl-Assignment-80975US005#page3.tif					
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Case No:

80975US005

As a below named inve	entor, I believe I am an original inver the patent is sought on the invention	ntor or an original join n entitled:	t inventor of a claimed invention in the
	OPTICAL ASSEMBLY WIT	H PROTECTIVE	COATING
The specification of whi	ich:		
is attached heret	o;		
was filed on as United States	Application No.		
is identified as Po	OT International Application No.  June 7, 2019	PCT	//B2019/054778
The above-identified ap	plication was made or authorized to	be made by me.	
I hereby acknowledge ti	hat any willful false statement made not more than 5 years, or both.		runishable under 18 U.S.C. 1001 by
3M COMPANY, and a c assigns, the entire right, continuation (in whole o by me or made jointly w termination of, my emple all Letters Patent, reexa thereto (including the rig own name and to claim international convention continuation (in whole o part upon the said inven have been by me had th	corporation of Delaware, having its proporation of Delaware, having its property, title, and interest in and to the said or in part) of said application, and in a fit others (provided any such improvement with 3M COMPANY and any principle for Letters Patent, Utility any priority rights for such foreign are s, treaties, or otherwise), which have r in part), renewal, reexamination, retition or improvements thereon, to be nis assignment and transfer not been	ernomenties con rincipal office at Saint invention and applicat and to any and all imporement is made during of its existing or future nereof, of the United Sophications to which sub abeen or may be grant issue, or other or furth held and enjoyed as made;	rovements in the said invention made p, or within one year after the e subsidiaries), and in and to any and dates of America and countries foreign Certificates in foreign countries in its ich applications are entitled under attention or on any divisional, thereon or on any divisional, are application based in whole or in fully and exclusively as they would
that may be deemed ned		zumenis, and to pend	ecute and deliver without further rm such other acts as I lawfully may, princes, fully to secure its right, title, or Inventors' Certificates in any and all
do hereby authorize an granted upon any of the little, and interest therein	d request the Commissioner of Pate said applications, to said 3M Innova	nts to issue any and a tive Properties Compi	all Letters Patent which may be any, as the assignee of the entire right,
Legal Name of Inventor	OL.		
Gregg A. Ambur			····
Inventor's Signature:	of the state of th	Date:	
1 Harry	"/	6/29/	2020

Case No:

80975US005

As a below named inventor,			tor of a claimed	invention in the
application and for which a p	atent is sought on the	: invention entitled:		

application and for wh	nich a patent is sought on the	invention entitled:	133. <b>*</b> 53.*11**********************************
	OPTICAL ASSEMB	LY WITH PRO	TECTIVE COATING
The specification of w	hich:		
is attached her	eto;		
was filed on as United State	es Application No.		
is identified as filed on	PCT International Application June 7, 2019	No.	PCT/IB2019/054778
The above-identified	application was made or auth	orized to be made	by me.
fine or imprisonment of addition, for good a sand do hereby assign 3M COMPANY, and a sassigns, the entire rigonation (in whole by me or made jointly termination of, my email Letters Patent, reethereto (including the bown name and to clain termational conventionational conventionational conventionational conventionation (in whole part upon the said invested been by me had to do further agree for	of not more than 5 years, or be and valuable consideration, re and transier unto the 3M iNt a corporation of Delaware, ha th, title, and interest in and to e or in part) of said application with others (provided any su apployment with 3M COMPAN examinations, reissues, or extending many priority rights for such ons, treaties, or otherwise), we e or in part), renewal, reexami rention or improvements there I this assignment and transfer	toth.  Iceipt of which is an NOVATIVE PROPE Ving its principal of the said invention in, and to any chimprovement is and any of its existensions thereof, of the property in the property in the property of the property in the property of t	charation is punishable under 18 U.S.C. 1001 by cknowledged, I have agreed to assign and transfer ERTIES COMPANY, a wholly-owned subsidiary of fice at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made made during, or within one year after the sting or future subsidiaries), and in and to any and the United States of America and countries foreign or inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, other or further application based in whole or in enjoyed as fully and exclusively as they would strators, to execute and deliver without further
that may be deemed	necessary by said Company,	its successors, as	and to perform such other acts as I lawfully may, signs, and nominees, fully to secure its right, title, lity Models, or Inventors' Certificates in any and all
do hereby authorize granted upon any of t itte, and interest ther	he said applications, to said 3	er of Patents to is: 3M Innovative Prop	sue any and all Letters Patent which may be serties Company, as the assignee of the entire right
Legal Name of Invi	entor:		
Benjamin G. S			
Inventor's Signatur	e. Joseph Je	Date:	16/2020

Case No:

80975US005

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:

	OPTICAL ASSEMBLY WIT	H PROTE	CTIVE COATING
The specification of which	ch:		
is attached hereto	);		
was filed on as United States :	Application No.		
is identified as PC filed on	CT International Application No. June 7, 2019		PCT/IB2019/054778
The above-identified ap	plication was made or authorized to	be made by r	ne.
	nat any wiliful 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 as 3M COMPANY, and a classigns, the entire right, continuation (in whole oby me or made jointly whermination of, my employed all Letters Patent, reexauthereto (including the right own name and to claim international convention continuation (in whole obart upon the said inventional do further agree for my consideration any further that may be deemed neand interest as aforesaid countries; and	nd transfer unto the 3M INNOVATIVerporation of Delaware, having its posititle, and interest in and to the said or in part) of said application, and in a lift others (provided any such improvement with 3M COMPANY and any minations, reissues, or extensions the same of the	E PROPERT rincipal office invention and and to any an vement is mary of its existing thereof, of the Models, or in pplications to e been or mae sheld and enjor made; and administration of the policipal of the p	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 diall improvements in the said invention made deduring, or within one year after the gor 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, are or further application based in whole or in oved as fully and exclusively as they would be ones, to execute and deliver without further at the perform such other acts as I lawfully may, so, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all any and all Letters Patent which may be seen company, as the assignee of the entire right,
,			
Legal Name of Invent	tor:		
Jo A. Etter			
Inventor's Signature:		Date:	
I A. A. Eb	tor	7/5/	2020

DECLARATION AND ASSIGNMENT,
FOR UTILITY OR DESIGN
PATENT APPLICATION (37 CFR § 1.63)

Case No:

80975US005

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:

	***************************************	OPTICAL AS	SEMBLY WIT	H PROTEC	TIVE COATING
The -				1111110110	1347 A.
	specification of which		•		
لسا	is attached hereto;				
	was filed on				
	as United States A	pplication No.			
$\boxtimes$	is identified as PCI	International App	lication No.		PCT/IB2019/054778
	filed on	June 7, 2019			

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:	
Timothy L. Wong	
Inventor's Signature:	Date:
Tomog X Was	8-July-2020

Case No:

80975US005

As a below named inventor, I believe I am an original inven application and for which a patent is sought on the invention	ntor or an original joint inventor of a claimed invention in the
OPTICAL ASSEMBLY WIT	H PROTECTIVE COATING
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 7, 2019	PCT//B2019/054778
The above-identified application was made or authorized to	be made by me.
and do hereby assign and transfer unto the 3M INNOVATIV 3M COMPANY, and a corporation of Delaware, having its plassigns, the entire right, title, and interest in and to the said continuation (in whole or in part) of said application, and in a by me or made jointly with others (provided any such improvementation of, my employment with 3M COMPANY and any all Letters Patent, reexaminations, reissues, or extensions the thereto (including the right to apply for Letters Patent, Utility own name and to claim any priority rights for such foreign and international conventions, treatles, or otherwise), which have continuation (in whole or in part), renewal, reexamination, repart upon the said invention or improvements thereon, to be have been by me had this assignment and transfer not been to do further agree for myself and for my heirs, executors, and consideration any further applications, assignments, and do that may be deemed necessary by said Company, its succest and interest as aforesaid and to obtain or maintain Letters Productions; and	rincipal office at Saint Paul, Minnesota, its successors and invention and application, and in and to any division or and to any and all improvements in the said invention made rement is made during, or within one year after the rement is made during, or within one year after the rement is made during, or within one year after the rement is made during, or within one year after the rement is made to any and thereof, of the United States of America and countries foreign Models, or Inventors' Certificates in foreign countries in its oplications to which such applications are entitled under to been or may be granted thereon or on any divisional, elssue, or other or further application based in whole or in theid and enjoyed as fully and exclusively as they would a made;  If administrators, to execute and deliver without further currents, and to perform such other acts as I lawfully may, ssors, assigns, and nominees, fully to secure its right, title, latent, Utility Models, or Inventors' Certificates in any and all
Legal Name of Inventor:	
Thomas P. Klun	
Inventor's Signature:  Thomaphilia	Date: 06-29-2020

Case No:

80975US005

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:

	OPTICAL ASSEMBLY WITH PROTEC	TIVE COATING
The s	pecification of which:	
	is attached hereto;	
	was filed on as United States Application No.	
$\boxtimes$	is identified as PCT International Application No. filed on June 7, 2019	PCT/IB2019/054778

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:	
Richard J. Pokorny	
Inventer's Signature:	Date: 6 (29 / 2-0

DECLARATION AND ASSIGNMENT,
FOR UTILITY OR DESIGN
PATENT APPLICATION (37 CFR § 1.63)

Case No:

80975US005

As a below	named	inventor,	l believe l	l am ar	original	inventor	or an	original	joint	inventor	of a	claimed	invention	in the
application														

	OPTICAL ASSEMBLY WITH PROTECTIVE COATING	
The specification of w	which:	
is attached here	reto;	
was filed on as United State	es Application No.	
is identified as I	PCT International Application No. PCT/IB2019/054770  June 7, 2019	
The above-identified	application was made or authorized to be made by me,	
	e that any willful false statement made in this declaration is punishable unde of not more than 5 years, or both.	er 18 U.S.C. 1001 by
and do hereby assign	and valuable consideration, receipt of which is acknowledged, I have agreed and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a whole	ly-owned subsidiary of

JMPANY, 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:	
Benjamin R. Coonce	
Inventor's Signature:	Date:
36	6-29-2020

Case No:

80975US005

	OPTICAL ASSEMBLY WI	IIH PROIECIIVE COATING
The specification of wh	iidh:	
is attached heret	(O;	
was filed on		
as United States	Application No.	
is identified as Prifiled on	CT International Application No. June 7, 2019	PCT/IB2019/054778
The above-identified ap	pplication was made or authorized t	to be made by me.
i hereby acknowledge t fine or imprisonment of	that any willful false statement mad f not more than 5 years, or both,	le in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign a 3M COMPANY, and a assigns, the entire right continuation (in whole or by me or made jointly volume termination of, my emp all Letters Patent, reext liberato (including the ri own name and to claim international convention continuation (in whole or part upon the said inve have been by me had to	and transfer unto the 3M INNOVATI corporation of Delaware, having its it, title, and interest in and to the sail or in part) of said application, and in with others (provided any such imprologment with 3M COMPANY and as aminations, reissues, or extensions ight to apply for Letters Patent, Utilit any priority rights for such foreign as, treaties, or otherwise), which have in part), renewal, reexamination, ention or improvements thereon, to this assignment and transfer not be	
consideration any furth	er applications, assignments, and c ecessary by said Company, its succ	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may,
and interest as aforesa	nid and to obtain or maintain Letters	cessors, easigns, and nominees, fully to secure its right, title, s Patent, Utility Models, or Inventors' Certificates in any and all
and interest as aforesa countries; and I do hereby authorize a granted upon any of the	and request the Commissioner of Pr e said applications, to said 3M Inno	s Patent, Utility Models, or Inventors' Certificates in any and all atents to issue any and all Letters Patent which may be
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and interest as aforesa countries; and I do hereby authorize a granted upon any of the title, and interest therei	and request the Commissioner of Present and 3M Inno e said applications, to said 3M Inno in.	s Patent, Utility Models, or Inventors' Certificates in any and all
and interest as aforesa countries; and I do hereby authorize a granted upon any of the title, and interest therein Legal Name of Inver	and request the Commissioner of Present and applications, to said 3M Inno in. Intor:	s Patent, Utility Models, or Inventors' Certificates in any and all atents to issue any and all Letters Patent which may be

Case No:

80975US005

	entor, I believe I am an original inve ch a patent is sought on the inventio	entor or an original joint inventor of a claimed invention in the open entitled:
	OPTICAL ASSEMBLY WI	TH PROTECTIVE COATING
The specification of wh	ich:	
is attached heret	Ο;	
was filed on		
as United States	Application No.	
⊠ is identified as Pi filed on	CT International Application No. June 7, 2019	PCT/IB2019/054778
The above-identified ap	oplication was made or authorized to	o be made by me.
	that any willful false statement made not more than 5 years, or both.	e in this declaration 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 to by me or made jointly vitermination of, my empall Letters Patent, reex thereto (including the ricown name and to claim international convention continuation (in whole to part upon the said inveloce that the part upon the said inveloce that the said inv	and transfer unto the 3M INNOVATI 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 improdument with 3M COMPANY and argument with 3M COMPANY and argument with 3M COMPANY and argument or party for Letters Patent, Utility any priority rights for such foreign and transfer not beautically in part), renewal, reexamination, and in part), renewal, reexamination, and transfer not beautiful and transfer not bea	
consideration any furth that may be deemed no	er applications, assignments, and decessary by said Company, its succ	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, i Patent, Utility Models, or inventors' Certificates in any and all
I do hereby authorize a granted upon any of th title, and interest therei	e said applications, to said 3M Innov	atents to issue any and all Leiters Patent which may be availve Properties Company, as the assignee of the entire right,
Legal Name of Inver		
Henry A. Kostal	îk, IV	
Inventor's Signature	· · · · · · · · · · · · · · · · · · ·	Date:
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Case No:

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application and for w	hich a patent is s	ought on the invent	ion entitled:	
	OPTICAL	. ASSEMBLY W	ITH PROTE	CTIVE COATING
The specification of v	vhich:			
is attached her	eto;			
☐ was filed on as United State	es Application No	).		
⊠ is identified as filed on	PCT International June 7, 281			PCT/IB2019/054778
The above-identified	application was r	made or authorized	to be made by	me.
I hereby acknowledg fine or imprisonment	e that any willful I of not more than	false statement mad 5 years, or both.	ie in this declar	ation is punishable under 18 U.S.C. 1001 by
and do nereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my en all Letters Patent, rec thereto (including the own name and to clai international conventi continuation (in whole part upon the said in have been by me had l do further agree for consideration any fur that may be deemed and interest as afores countries; and I do hereby authorize	and transfer unla corporation of faint, title, and interest properties or in part) of samily with others (properties) of any priority right to apply for many priority reneration or improving this assignment myself and for many self and to obtain and request the he said applications.	to the 3M INNOVAT Delaware, having its rest in and to the sa id application, and it vided any such imp M COMPANY and a sues, or extensions Letters Patent, Util phts for such foreign otherwise), which haval, reexamination, ements thereon, to and transfer not be a saignments, and id Company, its such or maintain Letters Commissioner of P	IVE PROPERT is principal office id invention and n and to any an rovement is ma any of its existin is thereof, of the ity Models, or in applications to ave been or ma reissue, or oth be held and en iten made; and administrat documents, and ceasors, assign s Patent, Utility atents to issue	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 displication, and in and to any division 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 the granted thereon or on any divisional, are or further application based in whole or in loyed as fully and exclusively as they would one, to execute and deliver without further it 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 all any and all Letters Patent which may be see Company, as the assignee of the entire right
Legal Name of Inve	antor:	***************************************		magaacaminnuum.
Christopher S.				noonin
Inventor's Signatur		7	Date:	· · · · · · · · · · · · · · · · · · ·
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Case No:

80975US005

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: OPTICAL ASSEMBLY WITH PROTECTIVE COATING The specification of which: is attached hereto: was filed on as United States Application No. PCT/IB2019/054778 is identified as PCT International Application No. filed on June 7, 2019 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. John R. Jacobson Inventor's Signature: Date:

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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:

application and for whi	ich a patent is sought on the inv	ention entitled:	•
	OPTICAL ASSEMBLY	WITH PROTEC	TIVE COATING
The specification of wh	nich:		
is attached here	do;		
was filed on as United States	s Application No.		
is identified as F	PCT International Application No June 7, 2019	). 	PCT/IB2019/054778
The above-identified a	pplication was made or authoriz	red to be made by m	ne.
I hereby acknowledge fine or imprisonment o	that any willful false statement in finction of the first factorial from the first factorial factorial from the factorial fact	made in this declara	tion is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to claim international convention continuation (in whole part upon the said invehave been by me had I do further agree for modification any furth that may be deemed in the said invehalt may be deemed in the	and transfer unto the 3M INNO\ corporation of Delaware, having nt, title, and interest in and to the or in part) of said application, an with others (provided any such in ployment with 3M COMPANY are caminations, reissues, or extens right to apply for Letters Patent, or any priority rights for such fore cons, treaties, or otherwise), whice or in part), renewal, reexaminate cention or improvements thereon, this assignment and transfer no myself and for my heirs, executo her applications, assignments, a mecessary by said Company, its	VATIVE PROPERTING its principal office as said invention and in and to any and improvement is made any of its existing itons thereof, of the light with the been or may iton, reissue, or other, to be held and enjoy the made;  It been made;  Its, and administrators and documents, and successors, assigns	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 I all improvements in the said invention made to during, or within one year after the 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 to be granted thereon or on any divisional, or or further application based in whole or in eyed as fully and exclusively as they would are, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, flodels, or Inventors' Certificates in any and all
I do hereby authorize a granted upon any of th title, and interest there	e said applications, to said 3M I	of Patents to issue a Innovative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire right
Legal Name of Inve	ntor:		
Chunjie Zhang			
Inventor's Signature	); •• <i>J</i>	Date:	•
Chu	grenns	06	-26-2020

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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

OPTICAL ASSEMBLY WITH PROTECTIVE COATING				
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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

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:	
Jung-Sheng Wu	
Inventor's Signature:	Date:

**PATENT** REEL: 053956 FRAME: 0367

**RECORDED: 10/02/2020**