PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6194135

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ENCAI HAO	11/01/2019
ZHAOHUI YANG	07/09/2020
ALBERT I. EVERAERTS	11/01/2019
YONGSHANG LU	11/01/2019
WILLIAM BLAKE KOLB	11/02/2019
KEITH R. BRUESEWITZ	11/11/2019

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:	16610710	

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: hhfroelke1@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:	79515US005
NAME OF SUBMITTER:	HYLIS H. FROELKE
SIGNATURE:	/Hylis H. Froelke/
DATE SIGNED:	07/10/2020

Total Attachments: 6

PATENT REEL: 053171 FRAME: 0989

506147403



PATENT REEL: 053171 FRAME: 0990

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

Case No:

79515US005

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 f	or which a patent is sought on the ir	vention entitled:	,
PC	DLYMERIC FILMS AND DISP	LAY DEVICES CO	ONTAINING SUCH FILMS
The specification is attached			· •
was filed o	on States Application No.		
	d as PCT International Application N 03 MAY 2018	No.	PCT/US2018/030954
The above-identi	fied application was made or author	rized to be made by m	ę.
I hereby acknowl fine or imprisonn	ledge that any willful false statemen tent of not more than 5 years, or bo	t made in this declarat th.	ion is punishable under 18 U.S.C. 1001 by
and do hereby as 3M COMPANY, assigns, the entire continuation (in which was been been by me or made internation of the continuation of the continuation of the continuation of the part upon the sai have been by me	ssign and transfer unto the 3M INNO and a corporation of Delaware, having re right, title, and interest in and to to whole or in part) of said application, pintly with others (provided any such y employment with 3M COMPANY to reexaminations, reissues, or extern the right to apply for Letters Paten to claim any priority rights for such for ventions, treaties, or otherwise), why whole or in part), renewal, reexamination or improvements thereof that this assignment and transfer research.	DVATIVE PROPERTILING its principal office a he said invention and and in and to any and improvement is made and any of its existing asions thereof, of the Lt, Utility Models, or Inversign applications to which have been or may ation, reissue, or other on, to be held and enjoyed been made;	viedged, I have agreed to assign and transfer ES 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 United States of America and countries foreign rentors' 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 an that may be deer	y further applications, assignments, med necessary by said Company, it	and documents, and the successors, 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, lodels, or inventors' Certificates in any and all
	y of the said applications, to said 3N		ny and all Letters Patent which may be s Company, as the assignee of the entire right,
Legal Name o	f Inventor:		
Encai HAO			
Inventor's Sign	nature:	Date:	
	The HP	11	1017019

PATENT

REEL: 053171 FRAME: 0991

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

Case No:

79515US005

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:

	MERIC FILMS AND DISPLAY D	EVICES CONTAINING SUCH FILMS
The specification of v		
is attached he		
was filed on as United State	es Application No.	
is identified as filed on	PCT International Application No. 03 MAY 2018	PCT/US2018/030954
The above-identified	application was made or authorized to t	pe made by me.
	e that any willful false statement made it of not more than 5 years, or both.	n this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and assigns, the entire riccontinuation (in whole by me or made jointly termination of, my er all Letters Patent, recthereto (including the own name and to clainternational convent continuation (in whole part upon the said in	n and transfer unto the 3M INNOVATIVE a corporation of Delaware, having its pright, title, and interest in and to the said is e or in part) of said application, and in ally with others (provided any such improve apployment with 3M COMPANY and any examinations, reissues, or extensions the right to apply for Letters Patent, Utility I aim any priority rights for such foreign aptions, treaties, or otherwise), which have e or in part), renewal, reexamination, rei	hich is acknowledged, I have agreed to assign and transfer PROPERTIES COMPANY, a wholly-owned subsidiary of incipal 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 ement is made during, or within one year after the of its existing or future subsidiaries), and in and to any and ereof, of the United States of America and countries foreign Models, or Inventors' Certificates in foreign countries in its plications to which such applications are entitled under been or may be granted thereon or on any divisional, ssue, or other or further application based in whole or in held and enjoyed as fully and exclusively as they would made;
consideration any fur that may be deemed	rther applications, assignments, and doc necessary by said Company, its succes	administrators, to execute and deliver without further turnents, and to perform such other acts as I lawfully may, isors, assigns, and nominees, fully to secure its right, title, atent, Utility Models, or Inventors' Certificates in any and all
	the said applications, to said 3M Innova	nts to issue any and all Letters Patent which may be tive Properties Company, as the assignee of the entire right
Legal Name of Inv	ventor:	
Zhaohui YANG	3	
Inventor's Signatu	rre:	Date: 7/9/2020

PATENT REEL: 053171 FRAME: 0992

DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (17 CPR) (18)

Case No.

7051508005

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		PCTN8201	
560 033	racional Application No. NAV 2016	PUTUSAN	8/46/0009

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Thereby acknowledge that any willful lake statement made in this declaration is possiblable under 18 U.S.C. ¹G1 by the or impropriment of not more than 5 years, or both

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I do hereby authorize and request the Commissioner of Pigerts to requestry and all Leurs. Paters which may be granted upon any of the said applications. To said 3M Innovative Properties Company, as the escopies of the entire right. After and interest therein.

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REEL: 053171 FRAME: 0993

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

Case No:

79515US005

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:

£	POLYMERIC FILMS AND DISPLAY DE	Taine on the United States of the Control of the Co
The sp	pecification of which:	
□i	is attached hereto;	
~~~	was filed on as United States Application No.	
	is identified as PCT <u>International Application No.</u> filed on <u>03 MAY 2018</u>	PCT/US2018/030954

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:	00000000000000000000000000000000000000
	Yongshang LU	
	Inventor's Signature:	Date:
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# DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

79515US005

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The s	specification of wh	ich:		
	is attached herel	<b>10</b> ;		
	was filed on			
certain	as United States	Application No.		
Ø	is identified as P filed on	CT International Applica 03 MAY 2018	tion No.	PCT/US2018/030954
The a	sbove-identified a	oplication was made or s	authorized to be made	by me.
		that any willful false stat f not more than 5 years,		eclaration is punishable under 18 U.S.C. 1001 by
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cons that r and i	ideration any furth nay be deemed n	er applications, assignm ecessary by said Compi	nents, and documents, any, its successors, as	strators, to execute and deliver without further , and to perform such other acts as I lawfully may ssigns, and nominees, fully to secure its right, title tility Models, or Inventors' Certificates in any and a
grant	hereby authorize a led upon any of th and interest there	e said applications, to si	sioner of Patents to is: aid 3M Innovative Prop	isue any and all Letters Patent which may be perties Company, as the assignee of the entire rig
TLA	gal Name of Inve	ntor:		
8	illiam Blake K			
in	ventor's Signature	s. suri	Date:	
8	11.19	"S after and a fair and a		

**PATENT** 

**REEL: 053171 FRAME: 0995** 

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

Case No:

79515US005

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:

POLYM	ERIC FILMS AND DISPLAY D	EVICES CO	ONTAINING SUCH FILMS
The specification of which	ch:		
is attached hereto	);		
was filed on as United States A	Application No.		
⊠ is identified as PC filed on	CT International Application No.  03 MAY 2018		PCT/US2018/030954
The above-identified app	plication was made or authorized to t	be made by m	е.
	nat any willful false statement made i not more than 5 years, or both.	n this declarat	ion is punishable under 18 U.S.C. 1001 by
and do hereby assign ar 3M COMPANY, and a c assigns, the entire right, continuation (in whole or by me or made jointly witermination of, my emploall Letters Patent, reexa thereto (including the rigown name and to claim international convention continuation (in whole or part upon the said invenhave been by me had the I do further agree for my consideration any further that may be deemed neand interest as aforesaid countries; and	and transfer unto the 3M INNOVATIVE corporation of Delaware, having its proporation of Delaware, having its proporation, and in a sith others (provided any such improve opment with 3M COMPANY and any aminations, reissues, or extensions the part to apply for Letters Patent, Utility any priority rights for such foreign applies, treaties, or otherwise), which have a rin part), renewal, reexamination, renewal, reexamination, renewal, reassignment and transfer not been assignment and transfer not been assignment and transfer not been are applications, assignments, and doccessary by said Company, its success d and to obtain or maintain Letters Proportion of the part of the pa	E PROPERTIE incipal office a invention and a invention and a ind to any and rement is made of its existing hereof, of the L Models, or Inv polications to we been or may issue, or other held and enjoy made; d administrator cuments, and t ssors, assigns, atent, Utility M	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 as, 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
	said applications, to said 3M Innova		ny and all Letters Patent which may be s Company, as the assignee of the entire right
Legal Name of Invent	tor:		
Keith R. BRUESE	<b>EWITZ</b>		
Inventor's Signature:		Date:	
1 V · A A 12		11	11-19

PATENT REEL: 053171 FRAME: 0996

**RECORDED: 07/10/2020**