504841205 03/28/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4887942

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LONG YIN	10/27/2017
ZHIGANG YU	12/12/2017
NAIYONG JING	03/26/2018

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:	15747053

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: tlemke2@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:	76789US007	
NAME OF SUBMITTER:	TERI M. LEMKE	
SIGNATURE:	/Teri M. Lemke/	
DATE SIGNED:	03/28/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 3

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> **PATENT** REEL: 045374 FRAME: 0567 504841205

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

Case No:

76789US007

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 wi	ich a patent is sought on the inver	ition entitled:		
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is attached heret				
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was filed on as United States	Application No.			
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is identified as P(T International Application No. July 29, 2015		PCT/CN2015/085383	
The above-identified a	pplication was made or authorized	to be made by	me,	
I hereby acknowledge fine or imprisonment o	that any willful false statement ma f not more than 5 years, or both.	de in this decla	iration is punishable under 18 Ú.S.C. 1001 l	эу
3M COMPANY, and a assigns, the entire right continuation (in whole oby me or made jointly vitermination of, my empall Letters Patent, reexithereto (including the riown name and to claim international convention continuation (in whole continuation (in whole continuation of the had the do further agree for my consideration any further and interest as aforesaic countries; and do hereby authorize arranted upon any of the tite, and interest therein	corporation of Delaware, having its t, title, and interest in and to the sa or in part) of said application, and it with others (provided any such imployment with 3M COMPANY and a saminations, reissues, or extensions ght to apply for Letters Patent, Utiliany priority rights for such foreign as, treaties, or otherwise), which have in part), renewal, reexamination, ation or improvements thereon, to I his assignment and transfer not be yself and for my heirs, executors, as a rapplications, assignments, and coessary by said Company, its successary by said Company, its suc	principal office id invention and any an rovement is many of its existing thereof, of the ity Models, or Ir applications to ave been or mareissue, or other the ideal and enjen made; and administrate incuments, and ressors, assign. Patent, Utility Manual of the ideal and incuments, and its principal incuments.	nowledged, I have agreed to assign and trar TIES COMPANY, a wholly-owned subsidiar e at Saint Paul, Minnesota, its successors a dapplication, and in and to any division or add all improvements in the said invention made during, or within one year after the ag or future subsidiaries), and in and to any e United States of America and countries for eventors' Certificates in foreign countries in which such applications are entitled under ay be granted thereon or on any divisional, iter or further application based in whole or injuyed as fully and exclusively as they would dors, to execute and deliver without further do to perform such other acts as I lawfully mans, and nominees, fully to secure its right, tit Models, or Inventors' Certificates in any and any and all Letters Patent which may be see Company, as the assignee of the entire research.	y of ind ade and reign its n
Legal Name of Invento	Andrew Andrew Andrew Andrew Andrews			7
Long Yin				
Inventor's Signature:	\checkmark	Date:		
Lon	g Yin		Oct. 27th, 2017	

PATENT REEL: 045374 FRAME: 0568

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

Case No:

76789US007

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:

ANTI-SOILING COMPOSITIONS COMPRISING SILICA NANOPARTICLES AND FUNCTIONAL SILANE COMPOUNDS AND COATED ARTICLES THEREOF The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/CN2015/085383 filed on July 29, 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: Zhigang Yu Inventor's Signature: Date: Theyour Yu Dec. 12, 2017

PATENT REEL: 045374 FRAME: 0569

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

Case No:

76789US007

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:

ANTI-SOILING COMPOSITIONS COMPRISING SILICA NANOPARTICLES AND FUNCTIONAL SILANE COMPOUNDS AND COATED ARTICLES THEREOF The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/CN2015/085383 July 29, 2015 filed on 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: Naiyong Jing Inventor's Signature: Date: 3/26/2018

PATENT REEL: 045374 FRAME: 0570

RECORDED: 03/28/2018

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