505132545 10/09/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5179308

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NAIYONG JING	06/19/2018
XUE TIAN	06/20/2018
XIAOHAI SHENG	06/19/2018
ZHENGJUN WANG	10/09/2018
GEZAHEGN D. DAMTE	06/18/2018
ZHIGANG YU	06/20/2018

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:	16062408

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

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

PO BOX 33427 Address Line 1:

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

ATTORNEY DOCKET NUMBER:	76943US006	
NAME OF SUBMITTER:	COLLEEN M. WAGNER	
SIGNATURE:	/Colleen M. Wagner/	
DATE SIGNED:	10/09/2018	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT REEL: 047105 FRAME: 0951

505132545

Total Attachments: 6

source=DeclarationAssignment_76943US006#page1.tif source=DeclarationAssignment_76943US006#page2.tif source=DeclarationAssignment_76943US006#page3.tif source=DeclarationAssignment_76943US006#page4.tif source=DeclarationAssignment_76943US006#page5.tif source=DeclarationAssignment_76943US006#page6.tif

Case No:

76943US006

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-FOG COATING COMPOSITION INCLUDING FUNCTIONALIZED SILICA

NANOPAR	RITCLES AND MULTIFUNCTION	ONAL (ME)	H)ACRYLATE MONOMERS
The specification of w			
is attached heret	o,		
was filed on as United States	June 14, 2018 Application No.		16/062408
is identified as Po	CT International Application No. December 31, 2015		PCT/CN2015/100062
The above-identified a	application was made or authorized to	o be made by i	me.
	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
3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly termination of, my emall Letters Patent, reex thereto (including the lown name and to clair international conventic continuation (in whole part upon the said investions).	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 improplyment with 3M COMPANY and an examinations, reissues, or extensions right to apply for Letters Patent, Utility any priority rights for such foreign a ons, treaties, or otherwise), which have or in part), renewal, reexamination, renewal, reexamination, renewal.	principal office d invention and and to any an evement is man by of its existing thereof, of the y Models, or In applications to we been or ma reissue, or other be held and enj	TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and dapplication, and in and to any division or id 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
consideration any furti that may be deemed r	ner applications, assignments, and de necessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further d 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 al
	ne said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire righ
Legal Name of Inven	tor:		
Naiyong Jing			De character de la constant de la co
Inventor's Signature:		Date:	
NewYor	up Thop	6-	-19-2018

PATENT

REEL: 047105 FRAME: 0953

Case No:

76943US006

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:

	COATING COMPOSITION IN TRICLES AND MULTIFUNCTION		
The specification of wh	nich:		
is attached hereto) <u>*</u> ;		
was filed on as United States	June 14, 2018 Application No.		16/062408
is identified as Po	CT International Application No. December 31, 2015		PCT/CN2015/100062
The above-identified a	pplication was made or authorized to	be made by	mes
fine or imprisonment of and do hereby assign 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, reexthereto (including the rown name and to clair international convention continuation (in whole part upon the said invehave been by me had I do further agree for no consideration any furth that may be deemed not and the consideration any furthered to the consideration any furthered in the consideration any furthered the consideration and the consideration and the consideration any furthered the consideration and the c	f not more than 5 years, or both. Indivaluable consideration, receipt of valuable consideration, receipt of valuable consideration, receipt of valuable corporation of Delaware, having its pot, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvious years and any such improvious constantiations, reissues, or extensions the interest of the provided any priority rights for such foreign a long, treaties, or otherwise), which have or in part), renewal, reexamination, restling or improvements thereon, to be this assignment and transfer not been applications, assignments, and desecessary by said Company, its successions.	which is acknown of PROPERT incipal office invention and and to any and to any and to any of its existing the polications to be been or made; and administrate ocuments, and essors, assign	owledged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and dall 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 by be granted thereon or on any divisional, er or further application based in whole or in property as fully and exclusively as they would one, to execute and deliver without further d 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
I do hereby authorize a granted upon any of th title, and interest there	ie said applications, to said 3M Innov	ents to issue ative Properti	any and all Letters Patent which may be es Company, as the assignee of the entire right
Legal Name of Inven	tor:		
Xue Tian			
Inventor's Signature:	000004	Date:	· ·
- Die	L	οb	/20/18

Case No:

76943US006

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-FOG COATING COMPOSITION INCLUDING FUNCTIONALIZED SILICA NANOPARTICLES AND MULTIFUNCTIONAL (METH)ACRYLATE MONOMERS

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The s	specification of wh	ich:			~~~
	is attached hereto	•			
	was filed on as United States A	June 14, 2018 Application No.		16/062408	
	is identified as PC filed on	T International Application No. December 31, 2015		PCT/CN2015/100062	
The a	above-identified ap	oplication was made or authorized to	o be made by r	ne.	
n adding of the continuous of	or imprisonment of dition, for good and to hereby assign a company, and a company, and a company of the entire right of the entire reports of the entire and to claim the rational convention unation (in whole compon the said inversion the said inversion the said inversion of the said in	not more than 5 years, or both. d valuable consideration, receipt of and transfer unto the 3M INNOVATI corporation of Delaware, having its title, and interest in and to the said in part) of said application, and in with others (provided any such impropries of the said application, and are minations, reissues, or extensions to apply for Letters Patent, Utility any priority rights for such foreign and priority rights for such foreign and the part), renewal, reexamination, and rin part), renewal, reexamination, and rin part), renewal, reexamination, and rin part), renewal, reexamination, and receipt a	which is acknowed PROPERT of the principal office and to any and to any and to existing thereof, of the y Models, or In applications to be been or may reissue, or othereof, and enice the polication of the principal and enice the principal and enice the principal of the principal and enice the principal of the p	wledged, I have agreed to assign and transing ES COMPANY, a wholly-owned subsidiary at Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention mad le during, or within one year after the porfuture subsidiaries), and in and to any are united States of America and countries fore ventors' Certificates in foreign countries in its which such applications are entitled under the granted thereon or on any divisional, or or further application based in whole or in byed as fully and exclusively as they would	fer of d le nd ian
do fu onsi hat n and ir	urther agree for my deration any furthe nay be deemed ne	yself and for my heirs, executors, are or applications, assignments, and de cessary by said Company, its succ	nd administrato ocuments, and essors, assigns	rs, to execute and deliver without further to perform such other acts as I lawfully may i, and nominees, fully to secure its right, title lodels, or Inventors' Certificates in any and	ķ.
rante	ereby authorize ar ed upon any of the and interest thereir	said applications, to said 3M Innov	tents to issue a vative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire rig	jht,
Lega	al Name of Invento	r:			
Xia	ohai Sheng			The state of the s	
Inve	ntor's Signature:		Date:		
olai	sherg		7.018.6		

Case No:

76943US006

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-FOG COATING COMPOSITION INCLUDING FUNCTIONALIZED SILICA

NANOPARTICLES AND MULTIFUNCTIONAL (METH)ACRYLATE MONOMERS The specification of which: is attached hereto; was filed on June 14, 2018 as United States Application No. Indextylate Monomers 16/062408 ▼ CT/CN2015/100062

The above-identified application was made or authorized to be made by me.

December 31, 2015

filed on

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:	
Zhengjun Wang	·
Inventor's Signature:	Date:
Zhengjun Wang	2018-10-9

Case No:

76943US006

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-FOG COATING COMPOSITION INCLUDING FUNCTIONALIZED SILICA NANOPARTICLES AND MULTIFUNCTIONAL (METH)ACRYLATE MONOMERS

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The	specification of wh	ich:		
	is attached hereto	Ŷ.		
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\boxtimes	is identified as PC filed on	T International Application No. December 31, 2015		PCT/CN2015/100062
The	above-identified ap	pplication was made or authorized to	be made by r	ne.
		hat any willful false statement made not more than 5 years, or both.	in this declara	ation is punishable under 18 U.S.C. 1001 by
3M (assignment by mall Lithers own intercont part	COMPANY, and a company, the entire right inuation (in whole company) are or made jointly with a company and in a company and to claim the right of the company and to claim the company and investion and the said investion the said investion the said investion the said investion.	corporation of Delaware, having its p t, title, and interest in and to the said or in part) of said application, and in a with others (provided any such impro- loyment with 3M COMPANY and any aminations, reissues, or extensions t ght to apply for Letters Patent, Utility any priority rights for such foreign a ns, treaties, or otherwise), which hav or in part), renewal, reexamination, re	rincipal office invention and to any and to any and vernent is many of its existing hereof, of the Models, or Inpplications to been or magissue, or other held and enjection and enjecti	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 de during, or within one year after the ground 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 y be granted thereon or on any divisional, are or further application based in whole or in oyed as fully and exclusively as they would
cons that and	ideration any furth- may be deemed no	er applications, assignments, and do ecessary by said Company, its succe	cuments, and essors, assign	ors, to execute and deliver without further to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title, Vlodels, or Inventors' Certificates in any and all
gran		e said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire right,
	jal Name of Invent		······	
i	zahegn D. Dan	nte		
lnv	entor's Signature:	17: 1	Date:	1
	Concrete marchy of	, Djul	06/1	8/2018

Case No:

76943US006

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:

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	NANOPAK	HICLES AND MULTIFUNCIN	ONAL (ME	IH)ACRYLATE MONOMERS
The	specification of wh	ich:		
	is attached hereto	.		
\boxtimes	was filed on as United States A	June 14, 2018 Application No.		16/062408
\boxtimes	is identified as PC filed on	T International Application No. December 31, 2015		PCT/CN2015/100062
The	above-identified ap	oplication was made or authorized to	be made by	me,
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cons that and	sideration any furth may be deemed ne	er applications, assignments, and de ecessary by said Company, its succ	ocuments, an essors, assig	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
gran		said applications, to said 3M Innov		any and all Letters Patent which may be ies Company, as the assignee of the entire right,
Leç	gal Name of Invento	DL.		
Zh	igang Yu			
Inv	entor's Signature:		Date:	
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PATENT REEL: 047105 FRAME: 0958

RECORDED: 10/09/2018