# 504026502 09/28/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4073161

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
XUAN JIANG	08/22/2016
KUAN-YIN LIN	08/30/2016
MICHELLE MOK	08/23/2016
NAIYONG JING	09/26/2016
DEREK J. DEHN	08/22/2016
RICHARD J. POKORNY	08/23/2016
TA-HUA YU	09/15/2016

#### **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:	15300022

# **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

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

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

ATTORNEY DOCKET NUMBER: 75037US007	
NAME OF SUBMITTER:	COLLEEN M. WAGNER
SIGNATURE:	/Colleen M. Wagner/
DATE SIGNED:	09/28/2016

This document serves as an Oath/Declaration (37 CFR 1.63).

# **Total Attachments: 7**

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Case No:

75037US007

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:

# MICROPOROUS ARTICLES WITH A THREE-DIMENSIONAL POROUS NETWORK OF ACID-SINTERED INTERCONNECTED SILICA NANOPARTICLES AND METHODS OF MAKING THE SAME

7012-01117	MAKI	NG THE SAME	ACTION AND METHODO OF
The specification of	which:		
is attached he	reto;		
was filed on as United Stat	es Application No.		·
is identified as filed on	PCT International Application No. April 3, 2015		PCT/US2015/024318
The above-identifie	d application was made or authoric	zed to be made by	me.
fine or imprisonmer In addition, for good and do hereby assigned to the entire of assigns, the entire of continuation (in who by me or made join termination of, my earl all Letters Patent, in thereto (including the own name and to count international convert continuation (in who part upon the said in	and valuable consideration, receign and transfer unto the 3M INNO dia corporation of Delaware, having title, and interest in and to the ole or in part) of said application, a tly with others (provided any such employment with 3M COMPANY a eexaminations, reissues, or extensive right to apply for Letters Patent, laim any priority rights for such forntions, treaties, or otherwise), which le or in part), renewal, reexaminations.	ipt of which is ackn VATIVE PROPERT g its principal office e said invention and ind in and to any ar improvement is ma nd any of its existir sions thereof, of the Utility Models, or I eign applications to the have been or ma tion, reissue, or oth to be held and en	ration is punishable under 18 U.S.C. 1001 by owledged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and diapplication, and in and to any division or and all improvements in the said invention made addeduring, or within one year after the ag or future subsidiaries), and in and to any and a United States of America and countries foreign eventors' Certificates in foreign countries in its owhich such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in gioyed as fully and exclusively as they would.
consideration any fi that may be deeme	urther applications, assignments, and necessary by said Company, its	and documents, an- successors, assigi	tors, 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
	of the said applications, to said 3M		any and all Letters Patent which may be ies Company, as the assignee of the entire righ
Legal Name of Inv	ventor:		
Xuan Jiang			
Inventor's Signatu	ire:	Date:	
	m	08	7/72/7016

Case No:

75037US007

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:

# MICROPOROUS ARTICLES WITH A THREE-DIMENSIONAL POROUS NETWORK OF ACID-SINTERED INTERCONNECTED SILICA NANOPARTICLES AND METHODS OF MAKING THE SAME

AOID-OINTEN		THE SAME
The specification of wh	nich:	
is attached hereto	<b>)</b> ;	
was filed on as United States	Application No.	
is identified as PC filed on	CT International Application No. April 3, 2015	PCT/US2015/024318
The above-identified a	pplication was made or authorized	to be made by me.
	that any willful false statement mad f not more than 5 years, or both.	de in this declaration is punishable under 18 U.S.C. 1001 by
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 investigation).	nt, title, and interest in and to the sa or in part) of said application, and it with others (provided any such imp ployment with 3M COMPANY and a caminations, reissues, or extension right to apply for Letters Patent, Util or any priority rights for such foreign ons, treaties, or otherwise), which he or in part), renewal, reexamination	s principal office at Saint Paul, Minnesota, its successors and aid 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 is thereof, of the United States of America and countries foreign lity Models, or Inventors' Certificates in foreign countries in its in applications to which such applications are entitled under have been or may be granted thereon or on any divisional, it, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would been made;
consideration any furth that may be deemed n	ner applications, assignments, and recessary by said Company, its suc	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, coessors, assigns, and nominees, fully to secure its right, title, is Patent, Utility Models, or Inventors' Certificates in any and all
	e said applications, to said 3M Inne	Patents to issue any and all Letters Patent which may be ovative Properties Company, as the assignee of the entire righ
Legal Name of Invent	tor:	
Kuan-Yin Lin		
Inventor's Signature:	<del></del>	Date:
	Mi	8/30/2016

Case No:

75037US007

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:

		ED INTERCONNECTE		SIONAL POROUS NETWORK OF PARTICLES AND METHODS OF :	
The	specification of wh	nich:			
	is attached hereto	o;			
	was filed on as United States	Application No.			
	is identified as PC filed on	CT International Application   April 3, 2015	No.	PCT/US2015/024318	
The:	above-identified a	pplication was made or auth	orized to be made by	me.	
fine of the fine o	dition, for good are do hereby assign a cOMPANY, and a gns, the entire right nuation (in whole the or made jointly vination of, my empetters Patent, reexpeto (including the reame and to claim national convention unuation (in whole upon the said invested to the said invested to the said invested to the said invested the said invested to the sai	f not more than 5 years, or be and valuable consideration, reand transfer unto the 3M INT corporation of Delaware, haut, title, and interest in and to or in part) of said application with others (provided any subloyment with 3M COMPAN aminations, reissues, or extight to apply for Letters Patern any priority rights for such ins, treaties, or otherwise), wor in part), renewal, reexamention or improvements therethis assignment and transfer	eceipt of which is ack NOVATIVE PROPER wing its principal office the said invention as and in and to any a chimprovement is my and any of its existing ensions thereof, of the ent, Utility Models, or foreign applications the which have been or mination, reissue, or other ent, to be held and er not been made;	nowledged, I have agreed to assign and to TIES COMPANY, a wholly-owned subside at Saint Paul, Minnesota, its successored application, and in and to any division and all improvements in the said invention ade during, or within one year after the ng or future subsidiaries), and in and to a e United States of America and countries Inventors' Certificates in foreign countries o which such applications are entitled unday be granted thereon or on any divisional her or further application based in whole njoyed as fully and exclusively as they wo	transfer diary of s and or made my and s foreign s in its der al, or in
cons that i and i	ideration any furth may be deemed n	ner applications, assignment ecessary by said Company,	s, and documents, a its successors, assig	ators, to execute and deliver without furthind to perform such other acts as I lawfully gns, and nominees, fully to secure its righty Models, or Inventors' Certificates in any	may, t, title,
gran		e said applications, to said :		e any and all Letters Patent which may be ties Company, as the assignee of the ent	
Leg	al Name of Invent	Of.			
	chelle Mok				
Inve	entor's Signature:		Date:	1	
	MMs	ĺ	8/	23/16	

Case No:

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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:

MICROPOROUS ARTICLES WITH A THREE-DIMENSIONAL POROUS NETWORK OF

	ACID-SINTER	ED INTERCONNECTED SILIC MAKING TI		PARTICLES AND METHODS OF
The	specification of wh	ich:		
	is attached hereto	1		
	was filed on as United States A	Application No.		
$\boxtimes$	is identified as PC filed on	T International Application No. April 3, 2015		PCT/US2015/024318
The	above-identified as	oplication was made or authorized to	be made by	me.
		that any willful false statement made not more than 5 years, or both.	in this decla	eration is punishable under 18 U.S.C. 1001 by
and 3M - assi cont by n term all L ther own inter cont part have	do hereby assign a COMPANY, and a gigns, the entire right tinuation (in whole of the control of	and transfer unto the 3M INNOVATIVe corporation of Delaware, having its pet, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvious aminations, reissues, or extensions the ight to apply for Letters Patent, Utility any priority rights for such foreign ans, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been	E PROPER' rincipal offici- invention and and to any avernent is may of its existing the existing polications to been or making and ended;	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of the at Saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made add during, or within one year after the ing or future subsidiaries), and in and to any and the United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, there or further application based in whole or in injoyed as fully and exclusively as they would
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gran		e said applications, to said 3M Innov		e any and all Letters Patent which may be rties Company, as the assignee of the entire right
Le	gal Name of Invent	Or:	·/·····	
	aiyong Jing			
Inv	ventor's Signature:		Date:	
	Mariyor	re Jive	ı	09/26/2016

Case No:

75037US007

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:

# MICROPOROUS ARTICLES WITH A THREE-DIMENSIONAL POROUS NETWORK OF ACID-SINTERED INTERCONNECTED SILICA NANOPARTICLES AND METHODS OF MAKING THE SAME The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/US2015/024318 April 3, 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: Derek J. Dehn Inventor's Signature: Date: 2) rule Del 8/22/2016

**PATENT** 

**REEL: 039877 FRAME: 0345** 

Case No:

75037US007

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consideration any furth that may be deemed n	ner applications, assignments, and di necessary by said Company, its succ	locuments, and cessors, 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
I do hereby authorize a granted upon any of th title, and interest there	e said applications, to said 3M Innov	atents to issue a vative Propertio	any and all Letters Patent which may be as Company, as the assignee of the entire right,
Legal Name of Invent			
Richard J. Pokor	'ny		
Inventor's Signature:	1/2	Date:	123/16

**PATENT** 

**REEL: 039877 FRAME: 0346** 

Case No:

75037US007

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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