PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3779038

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZHIGUO WEN	03/05/2016
ZHENG HUANG	03/11/2016
SIHUA YUAN	03/10/2016
XUETAO YU	01/21/2016
MING ZHANG	03/11/2016

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:	15021290

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:** rchery@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

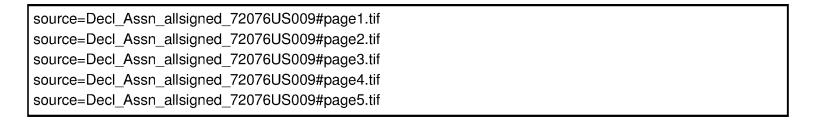
Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	72076US009
NAME OF SUBMITTER:	RACHELLE CHERY
SIGNATURE:	/Rachelle Chery/
DATE SIGNED:	03/11/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

Total Attachments: 5

PATENT REEL: 037952 FRAME: 0169

503732396



Case No:

72076US009

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:

SYSIEMS		ORING TEI DUCTOR	MPERATURE OF ELECTRICAL
The specification of w	hich:	·	
is attached herei	o;		
□ was filed on as United States □	Application No.		
is identified as P filed on	CT International Application No. SEPTEMBER 11, 2013		PCT/CN2013/083303
The above-identified a	application was made or authorized	to be made by	, me.
I hereby acknowledge fine or imprisonment of	that any willful false statement mad of not more than 5 years, or both.	de in this decla	aration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire rigit continuation (in whole by me or made jointly termination of, my emall Letters Patent, reesthereto (including the own name and to clair international conventio continuation (in whole part upon the said invehave been by me had	and transfer unto the 3M INNOVAT corporation of Delaware, having its ht, title, and interest in and to the sa or in part) of said application, and in with others (provided any such improper with 3M COMPANY and a saminations, reissues, or extensions right to apply for Letters Patent, Utiling any priority rights for such foreign ons, treaties, or otherwise), which have or in part), renewal, reexamination, ention or improvements thereon, to be this assignment and transfer not be	IVE PROPER principal official invention are and to any a rovement is many of its existics thereof, of the applications to applications to reissue, or office held and eremade;	nowledged, I have agreed to assign and transfe TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and application, and in and to any division or nd all improvements in the said invention made ade during, or within one year after the ng or future subsidiaries), and in and to any and e United States of America and countries foreig Inventors' 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 nioyed as fully and exclusively as they would stors, to execute and deliver without further
consideration any furtl that may be deemed r	ner applications, assignments, and o necessary by said Company, its succ	documents, an cessors, assig	nots, to execute and deriver without further and to perform such other acts as I lawfully may, ins., and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and al
I do hereby authorize a granted upon any of th title, and interest there	e said applications, to said 3M Inno	atents to issue vative Propert	any and all Letters Patent which may be lies Company, as the assignee of the entire righ
Legal Name of Inven	tor:	· · · · · · · · · · · · · · · · · · ·	
WEN, ZHIGUO			
Inventor's Signature:		Date:	
Wen 2	Zhi guo	20	16-3-5

Case No:

72076US009

SYSTEMS AND I			PERATURE OF ELECTRICAL	
The specification of which:	CONO	UCTOR		
is attached hereto;				
was filed on as United States Applic	ation Nia			
4				
is identified as PCT Inte	mational Application No. TEMBER 11, 2013		PCT/CN2013/083303	
The above-identified applicat	iion was made or authorized t	o be made by i	me.	
I hereby acknowledge that a fine or imprisonment of not o		e in this declar	ation is punishable under 18 U.S.C. 100	l by
3M COMPANY, and a corpo assigns, the entire right, title, continuation (in whole or in p by me or made jointly with ot termination of, my employme all Letters Patent, reexamina thereto (including the right to own name and to claim any jinternational conventions, tre continuation (in whole or in p part upon the said invention have been by me had this as	ration of Delaware, having its and interest in and to the sail art) of said application, and in hers (provided any such imprent with 3M COMPANY and artions, reissues, or extensions apply for Letters Patent, Utilitoriority rights for such foreign aties, or otherwise), which has art), renewal, reexamination, or improvements thereon, to be signment and transfer not be	principal office d invention and and to any an overnent is many of its existing thereof, of the applications to we been or many and and enjern made;	"IES COMPANY, a wholly-owned subsidi- eat Saint Paul, Minnesota, its successora d application, and in and to any division of de during, or within one year after the ig or future subsidiaries), and in and to are United States of America and countries eventors' Certificates in foreign countries which such applications are entitled und by be granted thereon or on any divisional er or further application based in whole of joyed as fully and exclusively as they wor	s and or made ny and foreign in its ler or in uld
consideration any further app that may be deemed necess	olications, assignments, and a ary by said Company, its succ	locuments, and ressors, assign	ors, to execute and deliver without furthe d to perform such other acts as I lawfully is, and nominees, fully to secure its right, Models, or Inventors' Certificates in any a	may, title,
			any and all Letters Patent which may be es Company, as the assignee of the enti	
Legal Name of Inventor:				many
HUANG, ZHENG				uuun
Inventor's Signature:	***************************************	Date:		
Linne	> hera		Marin, 2016	·······

Case No:

72076US009

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:

SYSTEMS AND METHODS FOR MONITORING CONDUCTO	grande de la companya
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on SEPTEMBER 11, 2013	PCT/CN2013/083303
The above-identified application was made or authorized to be m	ade by me.
I hereby acknowledge that any willful false statement made in thi fine or imprisonment of not more than 5 years, or both.	s declaration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which and do hereby assign and transfer unto the 3M INNOVATIVE PE 3M COMPANY, and a corporation of Delaware, having its princip assigns, the entire right, title, and interest in and to the said invercontinuation (in whole or in part) of said application, and in and to by me or made jointly with others (provided any such improveme lermination of, my employment with 3M COMPANY and any of it all Letters Patent, reexaminations, reissues, or extensions thereof thereto (including the right to apply for Letters Patent, Utility Mod own name and to claim any priority rights for such foreign application name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have been continuation (in whole or in part), renewal, reexamination, reissue part upon the said invention or improvements thereon, to be held have been by me had this assignment and transfer not been made.	OPERTIES COMPANY, a wholly-owned subsidiary of lal office at Saint Paul, Minnesota, its successors and altion and application, and in and to any division or any and all improvements in the said invention made in its made during, or within one year after the s existing or future subsidiaries), and in and to any and of, of the United States of America and countries foreign els, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under an or may be granted thereon or on any divisional, and enjoyed as fully and exclusively as they would
I do further agree for myself and for my heirs, executors, and adr consideration any further applications, assignments, and docume that may be deemed necessary by said Company, its successors and interest as aforesaid and to obtain or maintain Letters Paten countries; and	ents, and to perform such other acts as I lawfully may, s, assigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents I granted upon any of the said applications, to said 3M Innovative little, and interest therein.	o issue any and all Letters Patent which may be Properties Company, as the assignee of the entire right
Legal Name of Inventor: YUAN, SIHUA	
Inventor's Signature: Date	*

Case No:

72076US009

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:

SYSTEM		ORING TEMPERATURE OF ELECTRICAL UCTOR
The specification	of which:	
is attached h	ereto;	
was filed on as United St	ates Application No.	
is identified a filed on	s PCT International Application No. SEPTEMBER 11, 2013	PCT/CN2013/083303
The above-identifi	ed application was made or authorized t	o be made by me.
	idge that any willful false statement mad ent of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by
3M COMPANY, a assigns, the entire continuation (in will by me or made joi termination of, my all Letters Patent, thereto (including own name and to international convicontinuation (in will part upon the said have been by me	nd a corporation of Delaware, having its right, title, and interest in and to the sai hole or in parl) of said application, and in intly with others (provided any such improper employment with 3M COMPANY and as reexaminations, reissues, or extensions the right to apply for Letters Patent, Utility claim any priority rights for such foreign entions, treaties, or otherwise), which has hole or in part), renewal, reexamination, I invention or improvements thereon, to the had this assignment and transfer not be	
consideration any that may be deem	further applications, assignments, and o led necessary by said Company, its succ	nd administrators, to execute and deliver without further locuments, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or inventors' Certificates in any and all
I do hereby author granted upon any title, and interest t	of the said applications, to said 3M inno	ntents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire righ
Legal Name of Ir		
YU, XUETAO inventor's Signat		Date
	etao Yu	January 21 . Tolb

Case No:

72076US009

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 invention	rentitled:	
systems A	ND METHODS FOR MONITO CONDU	RING TEMPERATURE OF ELE ICTOR	:CTRICAL
The specification of wi	nich:		
is attached hereto	ŷ <u>;</u>		
was filed on			
as United States	Application No.		
is identified as P0 filed on	CT International Application No. SEPTEMBER 11, 2013	PCT/CN2013/083303	
The above-identified a	pplication was made or authorized to	be made by me.	
	that any willful false statement made f not more than 5 years, or both.	in this declaration 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 investign.)	and transfer unto the 3M INNOVATIVe 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 improployment with 3M COMPANY and an earninations, reissues, or extensions tright to apply for Letters Patent, Utility in any priority rights for such foreign a lons, treaties, or otherwise), which have or in part), renewal, reexamination, in	which is acknowledged, I have agreed E PROPERTIES COMPANY, a wholly rincipal office at Saint Paul, Minnesota invention and application, and in and I and to any and all improvements in the vement is made during, or within one y y of its existing or future subsidiaries), hereof, of the United States of America Models, or inventors' Certificates in for pplications to which such applications e been or may be granted thereon or consistent or the polication by a held and enjoyed as fully and exclusion a made;	y-owned subsidiary of s, its successors and to any division or s said invention made /ear after the and in and to any and a and countries foreigr preign countries in its are entitled under on any divisional, pased in whole or in
consideration any furth that may be deemed n	ner applications, assignments, and do ecessary by said Company, its succe	d administrators, to execute and delive cuments, and to perform such other a issors, assigns, and nominees, fully to Patent, Utility Models, or Inventors' Cer	cts as I lawfully may, secure its right, title,
	ie said applications, to said 3M innov	ents to issue any and all Letters Paten ative Properties Company, as the assi	
Legal Name of Invent			
ZHANG, MING			unn
Inventor's Signature:		Date:	
Zhang A	Ainq	Mar 11th, 20	46

PATENT REEL: 037952 FRAME: 0175

RECORDED: 03/11/2016