# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4120169

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ROBERT BENNETT	10/25/2016
DAVID SCOTT THOMPSON	10/05/2016
JOHN A. WHEATLEY	10/10/2016
GILLES J. BENOIT	10/04/2016

### **RECEIVING PARTY DATA**

Name:	3M INNOVATIVE PROPERTIES COMPANY
Street Address:	P.O. BOX 33427
City:	SAINT PAUL
State/Country:	MINNESOTA
Postal Code:	55133-3427

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15118972

#### **CORRESPONDENCE DATA**

**Fax Number:** (651)736-7586

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: pjbick@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:	75060US004
NAME OF SUBMITTER:	PAULA J. BICK
SIGNATURE:	/Paula J. Bick/
DATE SIGNED:	10/31/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 4** 

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PATENT REEL: 040171 FRAME: 0499

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Case No:

75060U\$004

As a below named invapplication and for who	ventor, I believe I am an original inver ich a patent is sought on the invention	ntor or an orig n entitled:	nal joint inventor of a claimed invention in the
so	LID STATE LIGHTING DEVICE	E WITH VIR	TUAL FILAMENT(S)
The specification of w	hich:		
☐ Is attached heret	o;		
was filed on as United States	August 15, 2016 Application No.		15/118,972
is identified as Pi	CT International Application No. April 2, 2014		PCT/US2014/032644
The above-identified a	application was made or authorized to	be made by r	ne.
I hereby acknowledge fine or imprisonment of	that any willful false statement made of not more than 5 years, or both.	in this declara	ation is punishable under 18 U.S.C. 1081 by
3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, ree thereto (Including the own name and to claimternational conventicontinuation (in whole part upon the said invence been by me had	a corporation of Delaware, having its p ht, title, and interest in and to the said or in part) of said application, and in with others (provided any such impro- ployment with 3M COMPANY and an xaminations, reissues, or extensions t right to apply for Letters Patent, Utility m any priority rights for such foreign a ons, treaties, or otherwise), which have or in part), renewal, reexamination, need to be this assignment and transfer not bee	rincipal office invention and to any an verment is may of its existing thereof, of the polications to been or made; a held and end made;	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 gior 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 yield be granted thereon or on any divisional, are or further application based in whole or in oyed as fully and exclusively as they would
consideration any furt	ther applications, assignments, and do necessary by said Company, its succ	ocuments, and essors, 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 granted upon any of t title, and interest then	he sald applications, to said 3M Innov	tents to Issue rative Properti	any and all Letters Patent which may be as Company, as the assignee of the entire right,
Legal Name of Inver	360C	······································	
Robert Bennett			
Inventor's Signature	p:	Date:	
P. Box	.H	25	~ October 2016

Case No:

75060US004

	ntor, I believe I am an original inven a patent is sought on the invention		inal joint inventor of a claimed invention in the
SOL	D STATE LIGHTING DEVICE	IIV HTIW	RTUAL FILAMENT(S)
The specification of whic	b;		
☐ is attached herato;			
	August 15, 2016		
as United States A	oplication No.		15/118,972
	international Application No. April 2, 2014		PCT/US2014/032844
The above-identified app	olication was made or authorized to	be made by	ne.
In addition, for good and and do hereby assign at 3M COMPANY, and a classigns, the entire right, continuation (in whole or by me or made jointly witermination of, my employed all Letters Patent, reexathereto (including the rigown name and to claim international convention continuation (in whole opart upon the said inventiave been by me had the fundament of the said inventiave been by me had the said further agree for my	nd transfer unto the 3M INNOVATIVerporation of Delaware, having its partitle, and interest in and to the said in part) of said application, and in a thothers (provided any such improvement with 3M COMPANY and any minations, reissues, or extensions that to apply for Letters Patent, Utility any priority rights for such foreign as treaties, or otherwise), which have in part), renewal, reexamination, retion or improvements thereon, to be its assignment and transfer not beer reelf and for my heirs, executors, and	E PROPERT rincipal office invention and to any and to any and to any and the existing the existing polications to been or making and end and end and end administrated.	owiedged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and I application, and in and to any division or d 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 y be granted thereon or on any divisional, er or further application based in whole or in loyed as fully and exclusively as they would one, to execute and deliver without further
that may be deemed no	cessary by said Company, its succe	essors, assig:	I 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 all
I do hereby authorize ar granted upon any of the title, and interest therein	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 righ
Legal Name of Invento			
David Scott Thorr	:pson		
Inventor's Signature		Date:	······································
	Jan	10%	~/_~ <sub>44</sub> <

Case No:

75060US004

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 v	which a patent is sought on the inve	ntion entitled:
S	OLID STATE LIGHTING DE	VICE WITH VIRTUAL FILAMENT(S)
The specification of	which:	
is attached her	eto;	
	August 15, 2016 es Application No.	15/118,972
is identified as filed on	PCT International Application No. April 2, 2014	PCT/US2014/032644
The above-identified	d application was made or authorize	ed to be made by me.
In addition, for good and do hereby assig 3M COMPANY, and assigns, the entire recontinuation (in who by me or made joint termination of, my eall Letters Patent, rethereto (including thown name and to clinternational convercontinuation (in who part upon the said in	t of not more than 5 years, or both.  and valuable consideration, receip in and transfer unto the 3M INNOV, i a corporation of Delaware, having ight, title, and interest in and to the ile or in part) of said application, and ily with others (provided any such in imployment with 3M COMPANY and examinations, reissues, or extension in right to apply for Letters Patent, L aim any priority rights for such forei itions, treaties, or otherwise), which ile or in part), renewal, reexamination	t of which is acknowledged, I have agreed to assign and transfer ATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of its principal office at Saint Paul, Minnesota, its successors and said invention and application, and in and to any division or d in and to any and all improvements in the said invention made approvement is made during, or within one year after the d any of its existing or future subsidiaries), and in and to any and ons thereof, of the United States of America and countries foreign stillity Models, or Inventors' Certificates in foreign countries in its gen applications to which such applications are entitled under have been or may be granted thereon or on any divisional, on, reissue, or other or further application based in whole or in to be held and enjoyed as fully and exclusively as they would heen made.
consideration any futhat may be deemed and interest as afore countries; and	irther applications, assignments, and necessary by said Company, its sesaid and to obtain or maintain Letter and request the Commissioner of the said applications, to said 3M in	s, and administrators, to execute and deliver without further d documents, and to perform such other acts as I lawfully may, uccessors, assigns, and nominees, fully to secure its right, title, ers Patent, Utility Models, or Inventors' Certificates in any and all Patents to issue any and all Letters Patent which may be inovative Properties Company, as the assignee of the entire right,
Legal Name of Inv	entor:	
John A. Wheat		muun
Inventor's Signatur	e:	Date:
	1/1/2	10-10-16

Case No:

75060US004

As a below named inventor, I believe I am an original inventor of application and for which a patent is sought on the invention enti-	or an original joint inventor of a claimed invention in the itled:
SOLID STATE LIGHTING DEVICE W	ITH VIRTUAL FILAMENT(S)
The specification of which:	
is attached hereto;	
⊠ was filed on August 15, 2016	
as United States Application No.	15/118,972
is identified as PCT International Application No. filed on April 2, 2014	PCT/US2014/032644
The above-identified application was made or authorized to be r	made by me.
I hereby acknowledge that any willful false statement made in the fine or imprisonment of not more than 5 years, or both.	nis 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 PI 3M COMPANY, and a corporation of Delaware, having its principal assigns, the entire right, title, and interest in and to the said invector continuation (in whole or in part) of said application, and in and by me or made jointly with others (provided any such improvem termination of, my employment with 3M COMPANY and any of all Letters Patent, reexaminations, reissues, or extensions there thereto (including the right to apply for Letters Patent, Utility Moown name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have be continuation (in whole or in part), renewal, reexamination, reissing part upon the said invention or improvements thereon, to be help have been by me had this assignment and transfer not been me	ROPERTIES COMPANY, a wholly-owned subsidiary of ipal office at Saint Paul, Minnesota, its successors and ention and application, and in and to any division or to any and all improvements in the said invention made ent is made during, or within one year after the its existing or future subsidiaries), and in and to any and sof, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its cations to which such applications are entitled under seen or may be granted thereon or on any divisional, ue, or other or further application based in whole or in Id and enjoyed as fully and exclusively as they would
I do further agree for myself and for my heirs, executors, and acconsideration any further applications, assignments, and documents that may be deemed necessary by said Company, its successo and interest as aforesaid and to obtain or maintain Letters Pate countries; and	nents, and to perform such other acts as I lawfully may, ors, assigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents granted upon any of the said applications, to said 3M innovative title, and interest therein.	s to issue any and all Letters Patent which may be e Properties Company, as the assignee of the entire righ
Legal Name of Inventor:	

Date:

10/04/204

PATENT REEL: 040171 FRAME: 0504

**RECORDED: 10/31/2016** 

Gilles J. Benoit Inventor's Signature: