## 505860815 01/13/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5907752

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JAMES B. SNYDER	04/10/2019
JUSTIN M. JOHNSON	03/19/2019
JAMES W. HOWARD	04/05/2019

#### **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:	16630658

#### **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.

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:	79900US007
NAME OF SUBMITTER:	PAULA J. BICK
SIGNATURE:	/Paula J. Bick/
DATE SIGNED:	01/13/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

### **Total Attachments: 3**

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PATENT 505860815 REEL: 051496 FRAME: 0464

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

Case No:

79900US

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;

	PATHWAY ARTICLE	AUTHENTICATION
The specification of w	hích:	
☐ is attached heret	to;	
was filed on as United States	Application No.	
is identified as P filed on	CT International Application No. August 7, 2018	PCT/IB2018/055958
The above-identified a	application was made or authorized to	be made by me.
	that any willful false statement made of 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 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 inv	and transfer unto the 3M INNOVATING 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 improphyment with 3M COMPANY and an xaminations, reissues, or extensions tright to apply for Letters Patent, Utility many priority rights for such foreign a cons, treaties, or otherwise), which have or in part), renewal, reexamination, respectively.	which is acknowledged, I have agreed to assign and transfer VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and a invention and application, and in and to any division or and to any and all improvements in the said invention made exement is made during, or within one year after the sy of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreignly Models, or inventors' Certificates in foreign countries in its applications to which such applications are entitled under we been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would be made;
consideration any furt that may be deemed a	her applications, assignments, and denecessary by said Company, its succe	nd administrators, to execute and deliver without further ocuments, and to perform such other acts as I lawfully may, essors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or inventors' Certificates in any and all
	he said applications, to said 3M Innov	tents to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire righ
Legal Name of Inver	naminaminaminaminaminaminaminaminaminami	
James B. Snyde		
Inventor's 8 gratuu	manning district of the second	Date:
	2_	
	Pro-	4/10/19

PATENT REEL: 051496 FRAME: 0465

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

Case No:

79900US

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:

	PATHWAY ARTICLE	AUTHENT	ICATION
The specification of	which:		
is attached her	eto;		
was filed on as United State	es Application No.		·
is identified as filed on	PCT International Application No. August 7, 2018		PCT/IB2018/055958
The above-identified	d application was made or authorized to	be made by r	ne.
	ge that any willful false statement made t of not more than 5 years, or both.	in this declar	ation is punishable under 18 U.S.C. 1001 by
and do hereby assignant COMPANY, and assigns, the entire recontinuation (in who by me or made joint termination of, my eall Letters Patent, rethereto (including the own name and to clinternational convercontinuation (in who part upon the said in have been by me have	In and transfer unto the 3M INNOVATIVE a corporation of Delaware, having its pight, title, and interest in and to the said le or in part) of said application, and in a ly with others (provided any such impromptoyment with 3M COMPANY and any examinations, reissues, or extensions the right to apply for Letters Patent, Utility aim any priority rights for such foreign a stions, treaties, or otherwise), which have le or in part), renewal, reexamination, representation or improvements thereon, to be add this assignment and transfer not been	/E PROPERT principal office invention and and to any and wement is many of its existinhereof, of the polications to been or male issue, or other held and enjon made;	g or future subsidiaries), and in and to any and United States of America and countries foreign wentors' 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 oyed as fully and exclusively as they would
consideration any futhat may be deemed	orther applications, assignments, and do dinecessary by said Company, its succe	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
	the 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 Inve	entor:	68.180	
Justin M. John	son		
Inventor's Signatur	e;	Date:	
		3/	19/19

PATENT REEL: 051496 FRAME: 0466

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

Case No:

79900US

As a below name	ed inventor, l	l believe I a	am an	original	inventor	or an	original	joint ii	nventor	of a	claimed	invention	in the
application and fo	or which a pa	atent is sou	ght on	the inv	ention er	ititled:							

As a below named inventor, I believe I am an original inventor or an ori application and for which a patent is sought on the invention entitled:	ginal joint inventor of a claimed invention in the
PATHWAY ARTICLE AUTHEN	TICATION
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No.     filed on	PCT/IB2018/055958
The above-identified application was made or authorized to be made by	me.
I hereby acknowledge that any willful false statement made in this decla fine or imprisonment of not more than 5 years, or both.	ration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is acknown and do hereby assign and transfer unto the 3M INNOVATIVE PROPER 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention an	TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and d application, and in and to any division or

lr а 31 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:	
James W. Howard	
Inventor's Signature:	Date:
a Hou	04.05.2019

**PATENT** REEL: 051496 FRAME: 0467