# 505281296 01/16/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5328070

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
BRIAN D. GOERS	01/09/2019
MARK A. LUKOWSKI	12/05/2018
WALTER FLASCHBERGER	11/13/2018
ERNEST L. THURBER	11/20/2018
JOHN E. GOZUM	11/09/2018

#### 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:	16099728

#### **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:** pjbick@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

Address Line 4: SAINT PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	78324US004
NAME OF SUBMITTER:	PAULA J. BICK
SIGNATURE:	/Paula J. Bick/
DATE SIGNED:	01/16/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
	•

**Total Attachments: 5** 

PATENT REEL: 048032 FRAME: 0697

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PATENT REEL: 048032 FRAME: 0698

Case No:

78324US004

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:

Camp		DUCER AND POROUS ABRA		BANG HOIMO THE CARE
The	specification of w	<del>~</del>	731 A PT 1 (7.2.714)	MADE COMO THE CAME
	is attached hereto			
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$\boxtimes$	was filed on	November 8, 2018		4 0 (00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	as United States	Application No.		16/099728
$\boxtimes$	is identified as Po	OT International Application No.		PCT/US2017/032111
	filed on	May 11, 2017		
The	above-identified a	pplication was made or authorized to	be made by n	<b>8€</b> ,
		that any willful false statement made f not more than 5 years, or both.	in this declara	tion is punishable under 18 U.S.C. 1001 by
and 3M assi con by r term all L ther own inter com part have	do hereby assign COMPANY, and a igns, the entire rigitinuation (in whole ne or made jointly ination of, my empeters Patent, ree) at the clair mational conventional conventionation (in whole upon the said inverse been by me had	and transfer unto the 3M INNOVATIV corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvided any such improvided any such improvided any taminations, reissues, or extensions the sample of the provided any priority rights for such foreign agons, treaties, or otherwise), which have or in part), renewal, reexamination, resulting or improvements thereon, to be this assignment and transfer not been	E PROPERTI rincipal office a invention and and to any and vernent is mad y of its existing hereof, of the to Models, or Inv pplications to y a been or may elssue, or othe to held and enjoin made;	or future subsidiaries), and in and to any and Jnited States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, or or further application based in whole or in wed as fully and exclusively as they would
con that and	sideration any furth may be deemed n	ner applications, assignments, and do recessary by said Company, its succe	cuments, and issors, assigns	rs, to execute and deliver without further to perform such other acts as I lawfully may, , and nominees, fully to secure its right, title, todels, or Inventors' Certificates in any and all
gran	hereby authorize a nted upon any of the and interest there	e said applications, to said 3M Innov	ents to issue a ative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire right
Le	gal Name of Inven	lor:		
3	ian D. Goers			
<u></u>	rentor's Signature:		Date:	
ainm.			1	1/2019
1111			1/9	1/20/9

PATENT REEL: 048032 FRAME: 0699

have been by me had this assignment and transfer not been made;

Case No:

78324US004

	anning and the contract of the	
	nventor, I believe I am an original inventor thich a patent is sought on the invention en	or an original joint inventor of a claimed invention in the titled:
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The specification of	which:	
is attached here	eto;	
was filed on	November 8, 2018 s Application No.	16/099728
is identified as I filed on	PCT International Application No. May 11, 2017	PCT/US2017/032111
The above-identified	application was made or authorized to be	nade by me.
	e that any willful false statement made in the of not more than 5 years, or both.	nis declaration is punishable under 18 U.S.C. 1001 by
and do hereby assig 3M COMPANY, and assigns, the entire ri continuation (in whol by me or made joint! termination of, my er all Letters Patent, re	n and transfer unto the 3M INNOVATIVE P a corporation of Delaware, having its princi ght, title, and interest in and to the said inve e or in part) of said application, and in and y with others (provided any such improvem nployment with 3M COMPANY and any of sexaminations, reissues, or extensions there	h is acknowledged, I have agreed to assign and transfer 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 left, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its

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

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

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, little, and interest therein.

Legal Name of inventor.	*************	***************************************	varvorini mariori mariori esta testi.	annamen anname
Mark A. Lukowski				
Inventor's Signature,	Date:	05	December	2018

Case No:

78324US004

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The specification of w	hich	***************************************	
is attached heret			
⊠ was filed on as United States	November 8, 2018 Application No.		16/099728
is Identified as Pr	CT International Application No. May 11, 2017		PCT/US2017/032111
The above-identified a	opplication was made or authorize	d to be made by	me.
i hereby acknowledge fine or imprisonment o	that any willful false statement m if not more than 5 years, or both.	ade in this decla	ration 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 email Letters Patent, rees thereto (including the own name and to clair international conventional continuation (in whole part upon the said invinave been by me had	and transfer unto the 3M INNOV, corporation of Delaware, having at, title, and interest in and to the or in part) of said application, any with others (provided any such in ployment with 3M COMPANY and examinations, reissues, or extension fight to apply for Letters Patent, Lin any priority rights for such foreigns, treaties, or otherwise), which or in part), renewal, reexaminatic ention or improvements thereon, this assignment and transfer not	ATIVE PROPER' its principal office said invention and to any as provement is mad any of its existing thereof, of the principal of the principa	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and id application, and in and to any division or not 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 a United States of America and countries foreign inventors' Certificates in foreign countries in its ownich such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in njoyed as fully and exclusively as they would
consideration any furfilibility may be deemed a	her applications, assignments, att	d documents, an uccessors, assid	itors, to execute and deliver without further ad 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 all
I do hereby authorize granted upon any of ti title, and interest there	ne said applications, to said 3M in	Patents to issue inovative Propen	eany and all Letters Patent which may be ties Company, as the assignee of the entire righ
Legal Name of inven	itor;	······································	
Walter Flaschbe			
Inventor's Stignature	1602/	Date:	13.2518

PATENT REEL: 048032 FRAME: 0701

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Case No:

78324US004

	nventor, I believe I am an original inventor which a patent is sou <mark>ght on th</mark> e invention en	or an original joint inventor of a claimed invention in the titled:
PORE	NDUCER AND POROUS ABRASIV	E FORM MADE USING THE SAME
The specification of	which:	
is attached her	eto;	
⊠ was filed on as United State	November 8, 2018 s Application No.	16/099728
is identified as filed on	PCT International Application No.  May 11, 2017	PCT/US2017/032111
The above-identified	application was made or authorized to be	made by me.
	ge that any willful false statement made in the of not more than 5 years, or both.	nis declaration is punishable under 18 U.S.C. 1001 by
and do hereby assig 3M COMPANY, and assigns, the entire ri continuation (in who	in and transfer unto the 3M INNOVATIVE P a corporation of Delaware, having its princ ght, title, and interest in and to the said inve le or in part) of said application, and in and	h is acknowledged, I have agreed to assign and transfer 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

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:  Ernest L. Thurber	
Inventor's Signature:	Date: ///20/20/5

Case No:

78324US004

As a below named inventor, I believe I am an original inventor or application and for which a patent is sought on the invention entit	
PORE INDUCER AND POROUS ABRASIVE	FORM MADE USING THE SAME
The specification of which:	
is attached hereto;	
Was filed on November 8, 2018     as United States Application No.	16/099728
is identified as PCT International Application No.  filed on May 11, 2017	PCT/US2017/032111
The above-identified application was made or authorized to be ma	ade by me.
I hereby acknowledge that any willful false statement made in this fine or imprisonment of not more than 5 years, or both.  In addition, for good and valuable consideration, receipt of which is and do hereby assign and transfer unto the 3M INNOVATIVE PROBLEM COMPANY, and a corporation of Delaware, having its principal assigns, the entire right, title, and interest in and to the said invent continuation (in whole or in part) of said application, and in and to by me or made jointly with others (provided any such improvement termination of, my employment with 3M COMPANY and any of its all Letters Patent, reexaminations, reissues, or extensions thereof thereto (including the right to apply for Letters Patent, Utility Mode own name and to claim any priority rights for such foreign applicating 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.	is acknowledged, I have agreed to assign and transfer OPERTIES COMPANY, a wholly-owned subsidiary of all office at Saint Paul, Minnesota, its successors and tion and application, and in and to any division or any and all improvements in the said invention made at is made during, or within one year after the existing or future subsidiaries), and in and to any and f, of the United States of America and countries foreign its, or Inventors' Certificates in foreign countries in its tions to which such applications are entitled under nor may be granted thereon or on any divisional, or other or further application based in whole or in and enjoyed as fully and exclusively as they would
I do further agree for myself and for my heirs, executors, and admiconsideration any further applications, assignments, and documenthat may be deemed necessary by said Company, its successors,	nts, 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.

Date: 17-9-14	***************************************
	Date:

PATENT REEL: 048032 FRAME: 0703

**RECORDED: 01/16/2019**