# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5713045

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

#### **CONVEYING PARTY DATA**

Name	Execution Date
ADAM J. MEULER	10/12/2018
DANIEL J. SCHMIDT	10/11/2018
YUGEUN P. YANG	11/28/2018
PAUL D. GRAHAM	10/09/2018
DAVID A. NETTLESHIP	11/29/2018

#### 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:	16066536		

### **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:** jmcourtney@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:	76926US008
NAME OF SUBMITTER:	JOYCE M. COURTNEY
SIGNATURE: /Joyce M. Courtney/	
DATE SIGNED:	09/11/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 5	

Total Attachments: 5

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Case No:

76926US008

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:

		ABRASIVE ARTICLES AN	D RELAT	ED METHODS
The	specification of wh	nich:		
	is attached hereto	<b>)</b>		
Ø	was filed on as United States	June 27, 2018 Application No.		16/066536
$\boxtimes$	is identified as PC filed on	T International Application No. December 29, 2016		PCT/US2016/069141
he	above-identified a	pplication was made or authorized to	be made by	me.
ine n ac n ac ind iM ( sssig cont erm erm her own nter cont oart nave	or imprisonment or imprisonment or do hereby assign a COMPANY, and a gns, the entire right inuation (in whole interested including the reame and to claim national convention upon the said invested on the said invested o	If not more than 5 years, or both, and valuable consideration, receipt of wand transfer unto the 3M INNOVATIVI corporation of Delaware, having its protest, title, and interest in and to the said it or in part) of said application, and in a with others (provided any such improvided any promitted and the said it is a said in a such foreign apply to a priority rights for such foreign apply to a part), renewal, reexamination, resention or improvements thereon, to be this assignment and transfer not been	which is acknown incipal office invention and any are rement is made in the control of the models, or label of and entitle in the control of the mode; or other in the control of the cont	owledged, I have agreed to assign and transfer TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and diapplication, and in and to any division or ad all improvements in the said invention made ade during, or within one year after the ag or future subsidiaries), and in and to any and United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under my be granted thereon or on any divisional, er or further application based in whole or in joyed as fully and exclusively as they would
cons hat and	sideration any furth may be deemed n	ner applications, assignments, and doo ecessary by said Company, its succes	cuments, an ssors, assigr	ors, to execute and deliver without further d 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
ran		e said applications, to said 3M Innova		any and all Letters Patent which may be les Company, as the assignee of the entire righ
Leg	gal Name of Invent	tor;	***************************************	
Ac	lam J. Meuler			, and the second second
lav	entor's Signature:	2.,	Date:	1 1
1	0.0. P	March.	10	1/12/2019

Case No:

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The	specification of wh	nich:		F	
	is attached hereto	) }			
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	was filed on as United States	June 27, 2018 Application No.		16/066536	
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	med on	December x2, x010			
The	above-identified a	pplication was made or authorized to	be made by r	10.	
in a and 3M assistant by natern own interpretable confined and the confine	or imprisonment or different of the different of the company of th	f not more than 5 years, or both.  Indivaluable consideration, receipt of valuable consideration, receipt of valuable consideration, receipt of valuable transfer unto the 3M INNOVATIVe corporation of Delaware, having its pot, title, and interest in and to the said or in part) of said application, and in with others (provided any such improbloyment with 3M COMPANY and an aminations, reissues, or extensions to tight 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 acknown by PROPERTI or incipal office invention and and to any and vement is made of its existing thereof, of the Models, or in inplications to been or mageissue, or other held and enjier properties in the properties in	wiedged, I have agreed to assign and transfer ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or I all improvements in the said invention made the during, or within one year after the profuture 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 the granted thereon or on any divisional, or or further application based in whole or in over as fully and exclusively as they would	
con: that and	sideration any furth may be deemed n	ner applications, assignments, and do ecessary by said Company, its succe	ocuments, and essors, assign	rs, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, fodels, or Inventors' Certificates in any and al	I.
grai		e said applications, to said 3M Innov		iny and all Letters Patent which may be is Company, as the assignee of the entire righ	t
	gal Name of Inven				
Di	aniel J. Schmid	lt		2020000	
Inv	ventor's Signature:		Date:		
	Ham	2 Llist	10/	11/2018	

Case No:

76926US008

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:

ABRASIVE ARTICLES /	AND RELATED METHODS
The specification of which:	
is attached hereto;	
☑ was filed on June 27, 2018	
as United States Application No.	16/066536
is identified as PCT International Application No. filed on December 29, 2016	PCT/US2016/069141
The above-identified application was made or authorized.	to be made by me.
and do hereby assign and transfer unto the 3M INNOVAT 3M COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the sa continuation (in whole or in part) of said application, and it by me or made jointly with others (provided any such imp termination of, my employment with 3M COMPANY and a all Letters Patent, reexaminations, reissues, or extensional thereto (including the right to apply for Letters Patent, Utili own name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which had continuation (in whole or in part), renewal, reexamination part upon the said invention or improvements thereon, to have been by me had this assignment and transfer not be	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 lave been or may be granted thereon or on any divisional, it reissue, or other or further application based in whole or in be held and enjoyed as fully and exclusively as they would seen made;
consideration any further applications, assignments, and that may be deemed necessary 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
	Patents to issue any and all Letters Patent which may be ovative Properties Company, as the assignee of the entire right
Legal Name of Inventor:	
Yugeun P. Yang	nomina di Cara
Inventor's Signature:	Date:
Yugeun Peter Youg	November 28 2018

Case No:

76926US008

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:

	ABRASIVE ARTICLES A	ND RELATED METHODS
The specification of	which:	
is attached here	eto;	
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	June 27, 2018 s Application No.	16/066536
		Annual Marie (1997)
is identified as I filed on	PCT International Application No.  December 29, 2016	PCT/US2016/069141
The above-identified	application was made or authorized to	be made by me.
fine or imprisonment In addition, for good and do hereby assig 3M COMPANY, and assigns, the entire ri continuation (in who by me or made joint) termination of, my er all Letters Patent, re thereto (including the own name and to cla international conven continuation (in who part upon the said in have been by me ha	and valuable consideration, receipt of in and transfer unto the 3M INNOVATI a corporation of Delaware, having its ight, title, and interest in and to the said le or in part) of said application, and in ly with others (provided any such impropropriem of the said application, and in a propriem of the said application, and in ly with others (provided any such impropropriem of the said application, and are a propriem of the said application, and a propriem of the said and priority rights for such foreignations, treaties, or otherwise), which have or in part), renewal, reexamination, invention or improvements thereon, to be a this assignment and transfer not be a said this assignment and transfer not be a said this assignment.	
consideration any fu that may be deemed	irther applications, assignments, and d if 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, sessors, assigns, and nominees, fully to secure its right, title, Patent, Utility Models, or Inventors' Certificates in any and all
i do hereby authoriz granted upon any of title, and interest the	f the said applications, to said 3M Inno	atents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire righ
Legal Name of Inv	entor:	
Paul D. Grahar		
Inventor's Signatur	'e	Date
Prus 9	Graham	09 OCT 2018

Case No:

76926US008

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:

appli	ication and for whi	ch a patent is sought on the invention	entitled:	
<del></del>		ABRASIVE ARTICLES AN	ID RELATI	D METHODS
The	specification of wh	nich:		
	is attached hereto	<b>3</b> ;		
	was filed on as United States	June 27, 2018 Application No.		16/066536
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The	above-identified a	pplication was made or authorized to	be made by	ne.
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cons that and	sideration any furth may be deemed n	ner applications, assignments, and do recessary by said Company, its succe	cuments, and ssors, 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 a
gran	hereby authorize a sted upon any of the and interest there	ne said applications, to said 3M Innova	ents to issue ative Properti	any and all Letters Patent which may be as Company, as the assignee of the entire righ
Leg	gal Name of Inven	tor.	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	
Da	vid A. Nettlesl	híp		nones.
Inv	rentor's Signature:	4 Newlest-P	Date: 29 /	/n / 18

PATENT REEL: 050341 FRAME: 0507

**RECORDED: 09/11/2019**