505283934 01/17/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5330708

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADRIANA C. GORGAN	01/07/2019
CENI JACOB	01/02/2019
JOSEPH J. MIGCHELS	01/02/2019
YUGEUN P. YANG	01/02/2019

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:	16092429

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: 77496US009	
NAME OF SUBMITTER: JOYCE M. COURTNEY	
SIGNATURE:	/Joyce M. Courtney/
DATE SIGNED:	01/17/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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PATENT 505283934 REEL: 048049 FRAME: 0712

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> PATENT REEL: 048049 FRAME: 0713

title, and interest therein.

Case No:

77496US009

application and for which	h a patent is sought on the invention en	
	ABRASIVE AF	TICLE
The specification of whi	ch:	
is attached hereto	5 5	
was filed on	October 9, 2018	
as United States A	pplication No.	16/092429
is identified as PC filed on	T International Application No. December 23, 2016	PCT/US2016/068486
The above-identified ap	plication was made or authorized to be	made by me.
	hat any willful false statement made in the not more than 5 years, or both.	nis declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign a 3M COMPANY, and a cassigns, the entire right continuation (in whole oby me or made jointly watermination of, my emplall Letters Patent, reexathereto (including the ricown name and to claim international convention continuation (in whole opart upon the said invelhave been by me had the	nd transfer unto the 3M INNOVATIVE P corporation of Delaware, having its prince, title, and interest in and to the said inverse in part) of said application, and in and with others (provided any such improvem oyment with 3M COMPANY and any of aminations, reissues, or extensions thereight to apply for Letters Patent, Utility Moany priority rights for such foreign application, treaties, or otherwise), which have been in part), renewal, reexamination, reissination or improvements thereon, to be hereign assignment and transfer not been manually.	
consideration any further that may be deemed no	er applications, assignments, and docun ecessary by said Company, its successo	Iministrators, to execute and deliver without further eents, and to perform such other acts as I lawfully may, rs, assigns, and nominees, fully to secure its right, title, nt, Utility Models, or Inventors' Certificates in any and al

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the

Legal Name of Inventor:

Adriana C. Gorgan

Inventor's Signature:

Date:

January 7, 2019

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,

countries: and

Case No:

77496US009

	ABRASIVE ARTICLE			
The specification of v	vhich:			
is attached here	to;			
was filed on	October 9, 2018			
as United States	Application No.	16/092429		
is identified as F	CT International Application No. December 23, 2016	PCT/US2016/068486		
The above-identified	application was made or authorized to be ma	de by me.		
	e that any willful false statement made in this of not more than 5 years, or both.	declaration is punishable under 18 U.S.C. 1001 by		
and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my emall Letters Patent, ree thereto (including the own name and to clai international conventicontinuation (in whole part upon the said inv	and transfer unto the 3M INNOVATIVE PRO a corporation of Delaware, having its principa ht, title, and interest in and to the said invent e or in part) of said application, and in and to with others (provided any such improvement aployment with 3M COMPANY and any of its examinations, reissues, or extensions thereof right to apply for Letters Patent, Utility Model m any priority rights for such foreign applications, treaties, or otherwise), which have been e or in part), renewal, reexamination, reissue,	existing or future subsidiaries), and in and to any and of the United States of America and countries foreign s, or Inventors' Certificates in foreign countries in its ons to which such applications are entitled under or 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		

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the

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.

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

Legal Name of Inventor:	
Ceni Jacob	:
Inventor's Signature:	Date:
Leriforob	2nd January 3019

Joseph J. Migchels
Inventor's Signature:

De Migilelo

Case No:

77496US009

marine	ABRASIVE AR	RTICLE
The specification of wh	ich:	
is attached hereto	•	
was filed on	October 9, 2018	
as United States	Application No.	16/092429
is identified as PC filed on	T International Application No. December 23, 2016	PCT/US2016/068486
The above-identified ar	oplication was made or authorized to be i	made by me.
and do hereby assign a 3M COMPANY, and a assigns, the entire right continuation (in whole oby me or made jointly vitermination of, my empall Letters Patent, reexithereto (including the riown name and to claim international conventional	and transfer unto the 3M INNOVATIVE P corporation of Delaware, having its princit, title, and interest in and to the said inveor in part) of said application, and in and with others (provided any such improvem sloyment with 3M COMPANY and any of aminations, reissues, or extensions thereight to apply for Letters Patent, Utility Mo	th is acknowledged, I have agreed to assign and transfer PROPERTIES 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 tent is made during, or within one year after the its existing or future subsidiaries), and in and to any and eof, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its
part upon the said inve	or in part), renewal, reexamination, reissi	een or may be granted thereon or on any divisional, ue, or other or further application based in whole or in ld and enjoyed as fully and exclusively as they would
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Date:

PATENT REEL: 048049 FRAME: 0716

Jenuary 2 - 2019

Case No:

77496US009

	ABRASIVI	EARTICLE	
The specification of v	vhich:		
is attached here	to;		
⊠ was filed on	October 9, 2018		
as United State	s Application No.	16	5/092429
is identified as F	PCT International Application No. December 23, 2016	Pi	CT/US2016/068486
The above-identified	application was made or authorized to	o be made by me.	
	e that any willful false statement made of not more than 5 years, or both.	e in this declaration	is punishable under 18 U.S.C. 1001 by
3M COMPANY, and assigns, the entire riccontinuation (in whole by me or made jointly termination of, my en all Letters Patent, resthereto (including the own name and to clainternational convent continuation (in whole part upon the said in have been by me had	a corporation of Delaware, having its pht, title, and interest in and to the said e or in part) of said application, and in with others (provided any such impro- apployment with 3M COMPANY and are examinations, reissues, or extensions right to apply for Letters Patent, Utilit im any priority rights for such foreign a ions, treaties, or otherwise), which have e or in part), renewal, reexamination, a vention or improvements thereon, to be d this assignment and transfer not be d	principal office at S if invention and app and to any and all ovement is made d ny of its existing or thereof, of the Unit y Models, or Invent applications to whic ve been or may be reissue, or other or the held and enjoyed an made;	improvements in the said invention made uring, or within one year after the future subsidiaries), and in and to any and ed States of America and countries foreign tors' Certificates in foreign countries in its ch such applications are entitled under granted thereon or on any divisional, further application based in whole or in d as fully and exclusively as they would
consideration any fur that may be deemed	necessary by said Company, its succ	ocuments, and to pessors, assigns, ar	to execute and deliver without further perform such other acts as I lawfully may, and nominees, fully to secure its right, title, els, or Inventors' Certificates in any and all
granted upon any of title, and interest ther	ein.		and all Letters Patent which may be ompany, as the assignee of the entire right
Legal Name of Inve			
Yugeun P. Yang	Y:		
Inventor's Signature		Date:	
Yugeun 1	Yang	Vanuary	2 2019

PATENT REEL: 048049 FRAME: 0717

RECORDED: 01/17/2019

Yugeun P. Yang