505861139 01/13/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5908076

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAIME A. MARTINEZ	03/08/2019
THOMAS J. NELSON	03/08/2019
MARIA DEL MAR CASADO MATEOS	03/03/2019
MARIA DEL CARMEN MARTIN RIVERA	03/08/2019
CRISTOBAL MARTIN BERNIA	03/05/2019
JON P. NIETFELD	03/05/2019
MYHANH T. TRUONG	12/20/2019
GREGORY G. MEHSIKOMER	03/06/2019

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:	16630706

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.

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

Address Line 4: ST. PAUL, MINNESOTA 55133-3427

ATTORNEY DOCKET NUMBER:	78588US004
NAME OF SUBMITTER:	AMANDA MILLER
SIGNATURE:	/AMANDA MILLER/

PATENT 505861139 REEL: 051498 FRAME: 0104

DATE SIGNED:	ATE SIGNED: 01/13/2020	
This document serves as an Oath/Declaration (37 CFR 1.63).		
Total Attachments: 8		
source=Executed_Declaration_Assignm	ent_78588US004#page1.tif	
source=Executed Declaration Assignment 78588US004#page2.tif		
source=Executed_Declaration_Assignment_78588US004#page3.tif		
source=Executed_Declaration_Assignment_78588US004#page4.tif		
source=Executed_Declaration_Assignment_78588US004#page5.tif		
source=Executed_Declaration_Assignment_78588US004#page6.tif		
source=Executed_Declaration_Assignment_78588US004#page7.tif		
source=Executed_Declaration_Assignment_78588US004#page8.tif		

Case No:

78583

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 ARTICLE WIT	H ANIONIC WATER S OF MAKI	BOLUBILIZING MATERIAL AND METHOD ING
The specification of which:		
is attached hereto;		
was filed on as United States Application N	0.	
is identified as PCT Internation	at Annihantian Na	PCT/US2016/040592
filed on July 6, 201		FC17C3Z016/04/033Z
The above-identified application was	s made or authorized to be	e made by me.
I hereby acknowledge that any willfufine or imprisonment of not more that	ut false statement made in t an 5 years, or both.	this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer to 3M COMPANY, and a corporation of assigns, the entire right, title, and in continuation (in whole or in part) of the by me or made jointly with others (postermination of, my employment with all Letters Patent, reexaminations, rethereto (including the right to apply the own name and to claim any priority international conventions, treaties, continuation (in whole or in part), resident and conventions.	into the 3M INNOVATIVE F if Delaware, having its prince terest in and to the said invisal application, and in and rovided any such improven 3M COMPANY and any of eissues, or extensions ther for Letters Patent, Utility More rights for such foreign appliant or otherwise), which have be newal, reexamination, reiss overnents thereon, to be he	ich is acknowledged, I have agreed to assign and transfer PROPERTIES COMPANY, a wholly-owned subsidiary of incipal office at Saint Paul, Minnesota, its successors and vention and application, and in and to any division or of to any and all improvements in the said invention made ment is made during, or within one year after the of its existing or future subsidiaries), and in and to any and reof, of the United States of America and countries foreign lodels, or inventors' Certificates in foreign countries in its dications to which such applications are entitled under been or may be granted thereon or on any divisional, sue, or other or further application based in whole or in eld and enjoyed as fully and exclusively as they would nade;
consideration any further application that may be deemed necessary by s	ns, assignments, and docur said Company, its success	administrators, to execute and deliver without further iments, and to perform such other acts as I lawfully may, sors, assigns, and nominees, fully to secure its right, title, tent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize and request the granted upon any of the said applicatitle, and interest therein.	ne Commissioner of Patent ations, to said 3M Innovativ	ts to issue any and all Letters Patent which may be ve Properties Company, as the assignee of the entire righ
Legal Name of inventor:	**************************************	
Jaime A. Martinez		
Inventor's Signature:	De De	ate:
Fine P. No	47	03/08/2019

Case No:

78588

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 ARTICLE WITH A	ANIONIC WATER SOLUE OF MAKING	ILIZING MATERIAL AND METHOD
The specification of which:		
is attached hereto;		
was filed on as United States Application No.		
is identified as PCT International filed on July 6, 2018	Application No.	PCT/US2018/040992
The above-identified application was n	nade or authorized to be made b	y me.
fine or imprisonment of not more than In addition, for good and valuable cons and do hereby assign and transfer unto 3M COMPANY, and a corporation of E assigns, the entire right, title, and intercontinuation (in whole or in part) of sai by me or made jointly with others (provtermination of, my employment with 3M all Letters Patent, reexaminations, reis thereto (including the right to apply for own name and to claim any priority righternational conventions, treaties, or continuation (in whole or in part), rener part upon the said invention or improve have been by me had this assignment	5 years, or both. sideration, receipt of which is act of the 3M INNOVATIVE PROPE of the 3M INNOVATIVE OF THE STATE OF	knowledged, I have agreed to assign and transfer RTIES COMPANY, a wholly-owned subsidiary of ce at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made nade during, or within one year after the ting or future subsidiaries), and in and to any and he United States of America and countries foreign r Inventors' Certificates in foreign countries in its to which such applications are entitled under may be granted thereon or on any divisional, other or further application based in whole or in enjoyed as fully and exclusively as they would
consideration any further applications, that may be deemed necessary by said	assignments, and documents, and Company, its successors, ass	ators, to execute and deliver without further and to perform such other acts as I lawfully may, gns, and nominees, fully to secure its right, title, by Models, or Inventors' Certificates in any and all
		e any and all Letters Patent which may be rties Company, as the assignee of the entire right
Legal Name of Inventor:	**************************************	
Thomas J. Nelson		
Inventor's Signature:	Date:	
2		

Case No:

78588

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 ART		R SOLUBILI AKING	ZING MATERIAL AND METHOD	
The specification of whi	ch;	· · · · · · · · · · · · · · · · · · ·		
is attached hereto;				
was filed on [as United States A	pplication No.			
☑ is identified as PCT filed on	International Application No. July 6, 2018		PCT/US2018/040992	
The above-identified ap	plication was made or authorized to	o be made by m	ne.	
I hereby acknowledge th		_	tion is punishable under 18 U.S.C. 1001 by	
and do hereby assign at 3M COMPANY, and a c assigns, the entire right, continuation (in whole or by me or made jointly witermination of, my emploal Letters Patent, reexathereto (including the rigown name and to claim international conventions continuation (in whole or part upon the said invenhave been by me had the	nd transfer unto the 3M INNOVATI' orporation of Delaware, having its pattle, and interest in and to the said in part) of said application, and in the others (provided any such impropressions with 3M COMPANY and arminations, reissues, or extensions 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 is assignment and transfer not bee	VE PROPERTIE principal office a dinvention and a and to any and evement is made by of its existing thereof, of the Uy Models, or Investigations to we been or may reissue, or other the held and enjoyen made;	wledged, I have agreed to assign and transfe ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made e during, or within one year after the or future subsidiaries), and in and to any an United States of America and countries foreignentors! Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, or further application based in whole or in yed as fully and exclusively as they would	f e d
consideration any furthe that may be deemed neo	r applications, assignments, and do cessary by said Company, its succ	ocuments, and to essors, assigns,	s, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, odels, or Inventors' Certificates in any and a	11
I do hereby authorize an granted upon any of the title, and interest therein	said applications, to said 3M Innov	tents to issue an ative Properties	ny and all Letters Patent which may be s Company, as the assignee of the entire rigi	nt,
Legal Name of Inventor	**			
Maria Del Mar Cas	ado Mateos		į	
Inventor's Signature:	Rodo)	Date:	1,3rd 2019	

title, and interest therein.

Case No:

78588

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 ARTICLE WITH ANIONIC WATER SOLUBILIZING MATERIAL AND METHOD

Q1::1811416114C2	
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/US2018/040992
The above-identified application was made or authorized to be made by	y me.
I hereby acknowledge that any willful false statement made in this deck fine or imprisonment of not more than 5 years, or both.	aration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is ack 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 as continuation (in whole or in part) of said application, and in and to any a by me or made jointly with others (provided any such improvement is metermination of, my employment with 3M COMPANY and any of its exist all Letters Patent, reexaminations, reissues, or extensions thereof, of the thereto (including the right to apply for Letters Patent, Utility Models, or own name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or metal continuation (in whole or in part), renewal, reexamination, reissue, or of part upon the said invention or improvements thereon, to be held and enhance been by me had this assignment and transfer not been made;	RTIES COMPANY, a wholly-owned subsidiary of ce at Saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made nade during, or within one year after the ting or future subsidiaries), and in and to any and ne United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under nay be granted thereon or on any divisional, ther or further application based in whole or in
I do further agree for myself and for my heirs, executors, and administrations consideration any further applications, assignments, and documents, at that may be deemed necessary by said Company, its successors, assigned interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	nd to perform such other acts as I lawfully may, gns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to issurgranted upon any of the said applications, to said 3M Innovative Proper	

Legal Name of Inventor:

Maria del Carmen Martin Rivera

Inventor's Signature:

Date:

Legal Name of Inventor:

Date:

Date:

Case No:

78588

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 AF	·	VATER SOLUBI OF MAKING	LIZING MATERIAL AND METH	OD
The specification of v	vhich;			
is attached here	to;			
was filed on as United States	Application No.			
is identified as F	CT International Application N July 6, 2018	o.	PCT/US2018/040992	
The above-identified	application was made or autho	rized to be made by	me.	
	e that any willful false statemer of not more than 5 years, or bo		ration is punishable under 18 U.S.C. 1	001 by
and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whole by me or made jointly termination of, my en all Letters Patent, ree thereto (including the own name and to clai international conventicontinuation (in whole part upon the said invhave been by me had I do further agree for consideration any furthat may be deemed and interest as afores countries; and I do hereby authorize granted upon any of title, and interest theretical in the said interest theretical interest inter	and transfer unto the 3M INNotation of Delaware, have the corporation of Delaware, have the or in part) of said application, with others (provided any such applyment with 3M COMPANY examinations, reissues, or extending to apply for Letters Paten many priority rights for such for one, treaties, or otherwise), when one in part), renewal, reexamination or improvements thereof this assignment and transfer remyself and for my heirs, executher applications, assignments, necessary by said Company, it said and to obtain or maintain Leand request the Commissione he said applications, to said 3M ein.	OVATIVE PROPER ing its principal office the said invention are and in and to any a himprovement is mend any of its existinations thereof, of the trial of trial of the trial of t	nowledged, I have agreed to assign and TIES COMPANY, a wholly-owned subset at Saint Paul, Minnesota, its successed application, and in and to any division all improvements in the said inventional improvements in the said inventionate during, or within one year after the ng or future subsidiaries), and in and to be United States of America and countries which such applications are entitled to ay be granted thereon or on any divisioner or further application based in whole and as fully and exclusively as they without furtional to perform such other acts as I lawfund to perform such acts and the perform such acts and the performance of the performance	sidiary of fors and on or on made o any and os foreign ies foreign ies for its inder onal, e or in would ther ally may, ght, title, ny and all
Legal Name of Inver Cristobal Martin				
Inventor's Signature		Date:		
invertor 3 bigliadule			MARCH/2019	

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

Case No:

78588

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 AR		ER SOLUBILIZING MATERIAL AND METHOD IAKING	
The specification of w	/hich:		
is attached here!	to;		
was filed on as United States	Application No.		
is identified as P	CT International Application No. July 6, 2018	PCT/US2018/040992	
The above-identified	application was made or authorized	to be made by me.	
fine or imprisonment	of not more than 5 years, or both.	de in this declaration is punishable under 18 U.S.C. 1001 to a state of which is acknowledged. I have agreed to assign and trar	
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 clai international conventicontinuation (in whole part upon the said invented been by me had	a corporation of Delaware, having its int, title, and interest in and to the sate or in part) of said application, and it with others (provided any such impleyment with 3M COMPANY and a examinations, reissues, or extensionaright to apply for Letters Patent, Util m any priority rights for such foreign ons, treaties, or otherwise), which he or in part), renewal, reexamination rention or improvements thereon, to I this assignment and transfer not be		and ade and reign rits
consideration any furt that may be deemed	ther applications, assignments, and necessary by said Company, its suc	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully m ccessors, assigns, and nominees, fully to secure its right, to secure its right.	itle.
I do hereby authorize granted upon any of t title, and interest then	he said applications, to said 3M Inne	Patents to issue any and all Letters Patent which may be ovative Properties Company, as the assignee of the entire	right
Legal Name of Inver	ntor:		
Jon P. Nietfeld	3 A		
Inventor's Signature		Date: 3-5-19	***************************************

Case No:

78588

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 AR	TICLE WITH ANIONIC WATE OF M/		IAL AND METHOD
The specification of w	hich;		
is attached heret	ο;		
☐ was filed on as United States	Application No.		
is identified as Po	CT International Application No. July 6, 2018	PCT/US2018/0	40992
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 punishabl	e under 18 U.S.C. 1001 by
3M COMPANY, and a assigns, the entire rigil continuation (in whole by me or made jointly termination of, my em all Letters Patent, reathereto (including the own name and to clair international convention continuation (in whole part upon the said invented been by me had	and transfer unto the 3M INNOVATI corporation of Delaware, having its nt, title, and interest in and to the said or in part) of said application, and in with others (provided any such improporate with 3M COMPANY and are assigned to apply for Letters Patent, Utility and priority rights for such foreign ons, treaties, or otherwise), which has or in part), renewal, reexamination, ention or improvements thereon, to be this assignment and transfer not be	rincipal office at Saint Paul, Mi invention and application, and and to any and all improvemen vernent is made during, or with y of its existing or future subsid hereof, of the United States of Models, or Inventors' Certifica pplications to which such appli- e been or may be granted ther eissue, or other or further appli- be held and enjoyed as fully and in made;	nnesota, its successors and in and to any division or ts in the said invention made in one year after the iaries), and in and to any and America and countries foreigr tes in foreign countries in its cations are entitled under eon or on any divisional, cation based in whole or in exclusively as they would
consideration any furt that may be deemed in	myself and for my heirs, executors, a her applications, assignments, and d necessary by said Company, its succ aid and to obtain or maintain Letters	cuments, and to perform such essors, assigns, and nominees,	other acts as I lawfully may, , fully to secure its right, title,
	and request the Commissioner of Pa ne said applications, to said 3M Inno ain.		
Legal Name of Inver	otor:		.iii.iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
Myhanh T. Truo	ng		
Inventor's Signature		Date:	
	 S	12/26/19	

Case No:

78588

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 AI		ITER SOLUB MAKING	LIZING MATERIAL AND METHOD
The specification of v	vhich:		
is attached here	eto;		
was filed on as United State	s Application No.		
is identified as filled on	PCT International Application No. July 6, 2018		PCT/US2018/040992
The above-identified	application was made or authorize	ed to be made by	/ me.
fine or imprisonment	of not more than 5 years, or both.		aration 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 enall Letters Patent, resthereto (including the own name and to clainternational convent continuation (in whole part upon the said in have been by me had	n and transfer unto the 3M INNOV a corporation of Delaware, having tht, title, and interest in and to the e or in part) of said application, and with others (provided any such in apployment with 3M COMPANY an examinations, reissues, or extension right to apply for Letters Patent, the any priority rights for such foreitons, treaties, or otherwise), which is or in part), renewal, reexamination or improvements thereon, it this assignment and transfer not	ATIVE PROPER its principal office said invention and in any a mprovement is medianly of its existions thereof, of the Jility Models, or ign applications in have been or mediand element and element and element made;	nowledged, I have agreed to assign and transfer ITIES COMPANY, a wholly-owned subsidiary of the at Saint Paul, Minnesota, its successors and ad application, and in and to any division or and all improvements in the said invention made rade during, or within one year after the ling or future subsidiaries), and in and to any and refuture subsidiaries, and in and to any and refuture States of America and countries foreign Inventors' Certificates in foreign countries in its o which such applications are entitled under ray be granted thereon or on any divisional, thereor further application based in whole or in njoyed as fully and exclusively as they would
consideration any fur that may be deemed	ther applications, assignments, ar necessary by said Company, its s	nd documents, as successors, assic	ators, to execute and deliver without further and to perform such other acts as I lawfully may, pris, and nominees, fully to secure its right, title, y Models, or inventors' Certificates in any and all
I do hereby authorize granted upon any of title, and interest ther	the said applications, to said 3M is	f Patents to issue nnovative Proper	e any and all Letters Patent which may be ties Company, as the assignee of the entire right,
Legal Name of Inve		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Gregory G. Mel			
Inventor's Signature		Date:	
Guma G	Mehiko	3/6	/30/9

PATENT REEL: 051498 FRAME: 0113

RECORDED: 01/13/2020