# 505562310 07/09/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5609107

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ADAM D. MILLER	05/06/2019
SERGEI MANUILOV	05/06/2019
NAIYONG JING	05/06/2019
TAISIYA SKORINA	07/09/2019
AARON K. NIENABER	05/16/2019
JOSEPH B. ECKEL	05/16/2019
THOMAS J. ANDERSON	05/03/2019
THOMAS J. NELSON	05/06/2019
MARK A. LUKOWSKI	05/06/2019
LOUIS S. MOREN	06/07/2019
DON V. WEST	05/08/2019

#### **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:	16338756

#### **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.

**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:	79231US006	
NAME OF SUBMITTER:	PAULA J. BICK	
SIGNATURE:	/Paula J. Bick/	
DATE SIGNED:	07/09/2019	
This document serves as an Oath/Declaration (37 CFR 1.63).		

# **Total Attachments: 11**

source=Decl\_Assign\_Executed\_79231US006#page1.tif source=Decl\_Assign\_Executed\_79231US006#page2.tif source=Decl\_Assign\_Executed\_79231US006#page3.tif source=Decl\_Assign\_Executed\_79231US006#page4.tif source=Decl\_Assign\_Executed\_79231US006#page5.tif source=Decl\_Assign\_Executed\_79231US006#page6.tif source=Decl\_Assign\_Executed\_79231US006#page7.tif source=Decl\_Assign\_Executed\_79231US006#page8.tif source=Decl\_Assign\_Executed\_79231US006#page9.tif source=Decl\_Assign\_Executed\_79231US006#page10.tif source=Decl\_Assign\_Executed\_79231US006#page10.tif source=Decl\_Assign\_Executed\_79231US006#page11.tif

Case No:

79231US006

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:

MAGNETIZ	ABLE ABRASIVE PARTICLE	AND METHOD OF MAKING THE SAME
The specification of wh	nich;	
is attached hereto	<b>)</b> ;	•
was filed on as United States	April 2, 2019	16/338,756
as vineu States.	Application No.	(0/330,730
is identified as PC filed on	CT International Application No. October 24, 2017	PCT/US2017/057976
The above-identified a	pplication was made or authorized to	be made by me.
fine or imprisonment of addition, for good are and do hereby assign and COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to clain international convention continuation (in whole part upon the said investional continuation).	f not more than 5 years, or both.  Indivaluable consideration, receipt of and transfer unto the 3M INNOVATIVE 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 impropleyment with 3M COMPANY and an aminations, reissues, or extensions the interest of apply for Letters Patent, Utility in any priority rights for such foreign a loss, treaties, or otherwise), which have or in part), renewal, reexamination, researched.	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 I invention and application, and in and to any division or and to any and all improvements in the said invention made overment is made during, or within one year after the made of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign y 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 en made;
consideration any furth that may be deemed n and interest as aforesa countries; and	ner applications, assignments, and do ecessary by said Company, its succe aid and to obtain or maintain Letters I and request the Commissioner of Pal e said applications, to said 3M Innov	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 tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right,
Lagar Blagar at lar and	**************************************	
Legal Name of Invent  Adam D. Miller	SS (	
Inventor's Signature:		Date:
	1972.	576,79

Case No:

79231US006

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⊠ was filed on as United States	April 2, 2019 Application No.	16/338,756
is identified as P	CT International Application No. October 24, 2017	PCT/US2017/057976
The above-identified	application was made or authorized to	be made by me.
fine or imprisonment in addition, for good a and do hereby assign 3M COMPANY, and assigns, the entire rig continuation (in whose by me or made jointly termination of, my enall Letters Patent, res	of not more than 5 years, or both, and valuable consideration, receipt of and transfer unto the 3M INNOVATIVe corporation of Delaware, having its plot, title, and interest in and to the said or in part) of said application, and in with others (provided any such impropioyment with 3M COMPANY and an xeminations, reissues, or extensions to	in this declaration is punishable under 18 U.S.C. 1001 by which is acknowledged. I have agreed to assign and transfer /E PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and invention and application, and in and to any division or and to any and all improvements in the said invention made evement is made during, or within one year after the y of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign
own name and to clai international conventi continuation (in whole part upon the said inv	m any priority rights for such foreign a ons, treaties, or otherwise), which hav r or in part), renewal, reexamination, r	Who Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under the been or may be granted thereon or on any divisional, eissue, or other or further application based in whole or in the end and enjoyed as fully and exclusively as they would n made;
consideration any fun that may be deemed	her applications, assignments, and do necessary by said Company, its succ	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	ients to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire right.
Legal Name of Inver	n 1000. Titoti	
Sergel Manuilov	<u>,</u>	
Inventor's Signature		Date:
	Lancinian.	05/02/2012

Case No:

79231US006

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:

MAGNETIZABLE ABRASIVE PARTICLE	AND METHOD OF MAKING THE SAME
The specification of which:	
is attached hereto;	
	16/338,756
is identified as PCT International Application No. filed on October 24, 2017	PCT/US2017/057976
The above-identified application was made or authorized to	be made by me.
I hereby acknowledge that any willful false statement made fine or imprisonment of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfer unto the 3M INNOVATION COMPANY, and a corporation of Delaware, having its passigns, the entire right, title, and interest in and to the said continuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such improtermination of, my employment with 3M COMPANY and arrall Letters Patent, reexaminations, reissues, or extensions	and to any and all improvements in the said invention made ovement is made during, or within one year after the ny of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign y 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 e held and enjoyed as fully and exclusively as they would
that may be deemed necessary by said Company, its succ	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
I do hereby authorize and request the Commissioner of Pa granted upon any of the said applications, to said 3M Innov title, and interest therein.	tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire righ
Legal Name of Inventor:	
Naiyong Jing	
Inventor's Signature:	Date:
Naiyong Tig	5/6/2019

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consideration any furthat may be deemed and interest as afore countries; and	rther applications, assignments, and do I necessary by said Company, its succe said and to obtain or maintain Letters F	d administrators, to execute and deliver without further cuments, and to perform such other acts as I lawfully may, ssors, assigns, and nominees, fully to secure its right, title, atent, Utility Models, or Inventors' Certificates in any and all
I do hereby authoriz granted upon any of title, and interest the	the said applications, to said 3M Innovi	ents to issue any and all Letters Patent which may be aftive Properties Company, as the assignee of the entire right
Legal Name of Inve	entor)	
Taisiya Skorina	A Commence of the Commence of	
Inventor's Signatur	B: Jet James Comment	Date:
	5	07/09/2019

Case No:

79231US006

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MAGNETI	ZABLE ABRASIVE PARTI	CLE AND METI	HOD OF MAKING THE SAME
The specification of v	which:		<del>, , , , , , , , , , , , , , , , , , , </del>
is attached here	to;		
was filed on as United States	April 2, 2019 Application No.		16/338,756
⊠ is identified as F filed on	CT International Application No. October 24, 2017		PCT/US2017/057976
The above-identified	application was made or authoriz	ed to be made by	me.
fine or imprisonment In addition, for good a 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 conventi continuation (in whole part upon the said inv have been by me had	of not more than 5 years, or both and valuable consideration, receil and transfer unto the 3M INNOValuable corporation of Delaware, having the title, and interest in and to the error in part) of said application, as with others (provided any such it ployment with 3M COMPANY are examinations, reissues, or extensing to apply for Letters Patent, many priority rights for such fore ons, treaties, or otherwise), whice or in part), renewal, reexaminat rention or improvements thereon, I this assignment and transfer no	pt of which is acknow/ATIVE PROPERT going its principal office esaid invention and in and to any an ind any of its existin ions thereof, of the Utility Models, or freign applications to h have been or mat ion, reissue, or oth- to be held and enj t been made;	ation is punishable under 18 U.S.C. 1001 by
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	he said applications, to said 3M I		any and all Letters Patent which may be as Company, as the assignee of the entire right
Legal Name of Inver	IĮOE.		
Aaron K. Nienal	oer Jan		uuun
Inventor's Signature	7 / / / / / / / / / / / / / / / / / / /	Date:	/16/2019

Case No:

79231US006

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:

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	is attached hereto	<b>2</b> (:			
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Jo	seph B. Eckel				
Îny	rentor's Signature	Z	Date:	5-16-1	

Case No:

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I hareby acknowled		made in this decla	ration is punishable under 18 U.S.C. 1001 by
3M COMPANY, ar assigns, the entire continuation (in what the mination of, my all Letters Patent, thereto (including town name and to continuation (in what upon the said have been by me I	ed a corporation of Delaware, having a decreoration of Delaware, having a decreoration and to the sole or in part) of said application, a netly with others (provided any such employment with 3M COMPANY a reexaminations, reissues, or extens the right to apply for Letters Patent, claim any priority rights for such for entlions, treaties, or otherwise), which or in part), renewal, reexamination or improvements thereor and this assignment and transfer no	g its principal office said invention and in and to any alimprovement is might any of its existing the control of the Utility Models, or large applications to have been or mitten, relasue, or other to be held and entitle of the control of the con	TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and id application, and in and to any division or and 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 or which such applications are entitled under ay be granted thereon or on any divisional, ner or further application based in whole or in njoyed as fully and exclusively as they would
consideration any	further applications, assignments, a	ind documents, at successors assig	itors, to execute and deliver without further ad to perform such other acts as I tawfully may, ris, and nominees, fully to secure its right, title. Models, or Inventors' Certificates in any and al
I do hereby author granted upon any title, and interest the	of the said applications, to said 3M	of Patents to issue Innovative Proper	any and all Letters Patent which may be ties Company, as the assignee of the entire righ
Lagal Name of In	ventor.	ALLEY TO BE THE STATE OF THE ST	THE THE PARTY OF T
Thomas J. Ar			
Inventor's Signat	ure Ht	Dale:	1 1
There	50 Min	- 05/	53/2019

DECLARATION AND ASSIGNMENT,	
FOR UTILITY OR DESIGN	
PATENT APPLICATION (37 CFR § 1,63)	

Case No:

79231US006

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:

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3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, resithereto (including the own name and to claim international convention continuation (in whole part upon the said inv	a corporation of Delaware, having its interpretation, and interest in and to the said or in part) of said application, and in with others (provided any such improployment with 3M COMPANY and arxaminations, reissues, or extensions right to apply for Letters Patent, Utility many priority rights for such foreign apply for the total part), renewal, reexamination, recommendation, reco	VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and d invention and application, and in and to any division or and to any and all improvements in the said invention made overnent is made during, or within one year after the made of its existing or future subsidiaries), and in and to any anothereof, of the United States of America and countries foreign y 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 en made;
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Legal Name of Inven	rtor:	
Thomas J. Nelso		
Inventor's Signature:		Date:
		5-6-19

Case No:

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Legal Name of Invent	ior.	
Mark A. Lukows	<b>ki</b>	
Inventor's Signature:		Date: 06 May 2019

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Legal Name of Inve		
Louis S. Moren	i - Barandaria in desara di la caracteria de la companya di la com	
Inventor's Signatur	5 M	06/01/2019

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I do further agree for myself and for my heirs, executors, and administration any further applications, assignments, and documents, that may be deemed necessary by said Company, its successors, as and interest as aforesaid and to obtain or maintain Letters Patent, Ut countries; and	, and to perform such other acts as I lawfully may, ssigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to is granted upon any of the said applications, to said 3M Innovative Proptite, and interest therein.	

Legal Name of Inventor:

Don V. West

Inventor's Signature:

Date:

May 4, 2019

PATENT REEL: 049700 FRAME: 0156

**RECORDED: 07/09/2019**