503797070 04/25/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3843717

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAMES P. ENDLE	02/11/2016
ROBERT J. MAKI	04/18/2016
TIEN YI HSU WHITING	02/10/2016
DAVID C. RAITHEL	02/19/2016
LAUREN K. CARLSON	02/10/2016

RECEIVING PARTY DATA

Name:	3M INNOVATIVE PROPERTIES COMPANY	
Street Address: PO BOX 33427		
City:	ST. PAUL	
State/Country:	MINNESOTA	
Postal Code:	55133-3427	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29553968

CORRESPONDENCE DATA

Fax Number: (736)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.

Email: skweber@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

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

ATTORNEY DOCKET NUMBER:	77548US002
NAME OF SUBMITTER:	SHERRI K.W. JOHNSON
SIGNATURE:	/Sherri K.W. Johnson/
DATE SIGNED:	04/25/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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PATENT REEL: 038365 FRAME: 0311

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Case No:

77548US002

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:

application and for wh	ich a patent is sought on the inventior	n entitled:	
	NONWOVEN ABRASIVE WIT	H DOT SUR	FACE PATTERN
The specification of w	hich:		
is attached heret	0,		
⊠ was filed on as United States	February 5, 2016 Application No.		29/553968
is identified as P	CT International Application No.		
The above-identified a	application was made or authorized to	be made by m	e.
	that any willful false statement made of not more than 5 years, or both.	in this declarat	tion is punishable under 18 U.S.C. 1001 by
and do hereby assign 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 inv	and transfer unto the 3M INNOVATIVE corporation of Delaware, having its plant, title, and interest in and to the said or in part) of said application, and in with others (provided any such improper ployment with 3M COMPANY and any xaminations, reissues, or extensions tright to apply for Letters Patent, Utility many priority rights for such foreign a cons, treaties, or otherwise), which have or in part), renewal, reexamination, re	/E PROPERTIFICATION OF THE PRO	wledged, 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 all improvements in the said invention made e during, or within one year after the or future subsidiaries), and in and to any and United States of America and countries foreign rentors' 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 yed as fully and exclusively as they would
consideration any furt that may be deemed	ther applications, assignments, and do necessary by said Company, its succe	ocuments, and essors, 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, lodels, or Inventors' Certificates in any and all
I do hereby authorize granted upon any of t title, and interest then	he said applications, to said 3M Innov	tents to issue a rative Propertie	ny and all Letters Patent which may be s Company, as the assignee of the entire right
Legal Name of Inver	ntor:		
James P. Endle			
Inventor's Signature	,	Date:	
300	Le	[P_	11 7011

Case No:

77548US002

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:

	NONWOVEN ABRASIVE WIT	DOT SURFACE PATTERN	
The specification of wh	ich:		
is attached hereto	r r		
was filed on	February 5, 2016		
as United States		29/553968	
is identified as PC filed on	T International Application No.		
The above-identified a	oplication was made or authorized to	e made by me.	
fine or imprisonment of an addition, for good an and do hereby assign a 3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly vermination of, my empall Letters Patent, reex thereto (including the rown name and to claim international conventio continuation (in whole part upon the said inve	that any willful false statement made from more than 5 years, or both. Individuable consideration, receipt of variety of the said 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 improvited any such improvited any such improvited any such improvited and priority rights for such foreign and any priority rights for such foreign ans, treaties, or otherwise), which have or in part), renewal, reexamination, restriction or improvements thereon, to be this assignment and transfer not bee	nich is acknowledged, I have agre PROPERTIES COMPANY, a whocipal office at Saint Paul, Minnes not on any and all improvements in ement is made during, or within or of its existing or future subsidiarie ereof, of the United States of Ame Models, or Inventors' Certificates in plications to which such applications been or may be granted thereon saue, or other or further applicationheld and enjoyed as fully and exclassing the property of the prop	ed to assign and transfer olly-owned subsidiary of ota, its successors and not to any division or the said invention made be year after the s), and in and to any and rica and countries foreign foreign countries in its are entitled under or on any divisional, n based in whole or in
I do further agree for me consideration any furth that may be deemed neared interest as aforesa countries; and	nyself and for my heirs, executors, and do ecessary by said Company, its successid and to obtain or maintain Letters for the commissioner of Pates and applications, to said 3M Innov	administrators, to execute and de numents, and to perform such othe isors, assigns, and nominees, fully atent, Utility Models, or Inventors'	er acts as I lawfully may, to secure its right, title, Certificates in any and all tent which may be
Legal Name of Invent	or:		
Robert J. Maki			
Inventor's Signature:		Date:	
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Case No:

77548US002

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:

		NONWOVEN ABRASIVE WITH	1 DOT SU	RFACE PATTERN
The	specification of wl	nich:		
	is attached herete	o;		
X	was filed on	February 5, 2016		
5	as United States			29/553968
	is identified as P(CT International Application No.		
	filed on			
The	above-identified a	pplication was made or authorized to	be made by	me.
		that any willful false statement made if not more than 5 years, or both.	in this declar	ation is punishable under 18 U.S.C. 1001 by
and 3M (assi cont by n term all L there own inter cont part have	do hereby assign COMPANY, and a gns, the entire right inuation (in whole ne or made jointly hination of, my empetters Patent, reed to (including the iname and to clair reational conventionation (in whole upon the said invested in a been by me had	and transfer unto the 3M INNOVATIVI corporation of Delaware, having its profit, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvoloyment with 3M COMPANY and any caminations, reissues, or extensions thright to apply for Letters Patent, Utility in any priority rights for such foreign apons, treaties, or otherwise), which have or in part), renewal, reexamination, reention or improvements thereon, to be this assignment and transfer not been	E PROPERT incipal office invention and any arm of its existing the Models, or limited been or maissue, or other held and en and and and and and and and and and an	g 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 by 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 that and	sideration any furti may be deemed r	ner applications, assignments, and do recessary by said Company, its succe	cuments, and ssors, assign	ors, to execute and deliver without further d to perform such other acts as I lawfully may, as, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
grar title,	nted upon any of the and interest there	ne said applications, to said 3M Innova iin.		any and all Letters Patent which may be les Company, as the assignee of the entire right
	gal Name of Inven			anna
š	en Yi Hsu Whi rentor's Signature:	77	Date:	
	and the state of t			
		And the second s	02/10/	// 4

Case No:

77548US002

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:

	NONWOVEN ABRASIVE WIT	TH DOT SUI	RFACE PATTERN	
The specification of w	/hich:			
is attached heret				
<u> </u>	5.0040	· · · · · · · · · · · · · · · · · · ·		
was filed on as United States	February 5, 2016		29/553968	
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is identified as P	CT International Application No.			
	<u> </u>			
The above-identified a	application was made or authorized to	o be made by r	me.	
	e that any willful false statement made of not more than 5 years, or both.	e in this declar	ation is punishable under 18 U.S.C. 1001	by
3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, reathereto (including the own name and to clair international conventic continuation (in whole part upon the said invitation by me had	a 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 impropriet with 3M COMPANY and an examinations, reissues, or extensions right to apply for Letters Patent, Utility many priority rights for such foreign a cons, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been	principal office d invention and and to any an evement is man by of its existing thereof, of the y Models, or In applications to we been or man reissue, or othe e held and enjen made;	TES COMPANY, a wholly-owned subsidial at Saint Paul, Minnesota, its successors and application, and in and to any division or all dall improvements in the said invention of the deduction, or within one year after the gor future subsidiaries), and in and to any United States of America and countries for the countries of the countries of the countries of the countries in the countries of the countries are continued to the countries of the countri	and nade nade nand oreign nits r
consideration any furt that may be deemed in	her applications, assignments, and dencessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further d to perform such other acts as I lawfully m is, and nominees, fully to secure its right, the Models, or Inventors' Certificates in any a	itle,
	he said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire	: right
Legal Name of Inver	ntor:			
David C. Raithel	l			
Inventor's Signature:		Date:		
David (C. Rut I	2-	19-16	

Case No:

77548US002

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:

		NONWOVEN ABRASIVE \	VITH DOT SU	RFACE PATTERN
The sp	ecification of wh	nich:		
☐ is	attached hereto	o;		
⊠ wa	as filed on	February 5, 2016		
_	S United States			29/553968
	identified as PC ed on	CT International Application No.		
The ab	ove-identified a	pplication was made or authorize	d to be made by	me.
In addit and do 3M CO assigns continu by me a termina all Lette thereto own na internal continu part up.	imprisonment of tion, for good ar hereby assign a MPANY, and a strong in whole to made jointly vation of, my empers Patent, reex of (including the rame and to claim tional conventionation (in whole to the said investion the said investion the said investion.	f not more than 5 years, or both. Individuable consideration, receips and transfer unto the 3M INNOV, corporation of Delaware, having it, title, and interest in and to the or in part) of said application, and with others (provided any such in ployment with 3M COMPANY and aminations, reissues, or extensicing it to apply for Letters Patent, it is any priority rights for such foreins, treaties, or otherwise), which or in part), renewal, reexamination	t of which is acknown to PROPER's its principal office said invention and in and to any arm of its existing thereof, of the lility Models, or light applications to have been or mand to be held and ender its acknown to be ackn	owledged, I have agreed to assign and transfer TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and dapplication, and in and to any division or ad all improvements in the said invention made de 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 ay be granted thereon or on any divisional, er or further application based in whole or in joyed as fully and exclusively as they would
conside that ma and into	eration any furth ay be deemed n	er applications, assignments, an ecessary by said Company, its s	d documents, and uccessors, assign	ors, to execute and deliver without further d to perform such other acts as I lawfully may, as, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
granted		e said applications, to said 3M Ir		any and all Letters Patent which may be es Company, as the assignee of the entire right
Laur	Name of Invent	Z 1	Date:	
	XYY	V	12/i	1/16.

PATENT REEL: 038365 FRAME: 0317

RECORDED: 04/25/2016