## 502581761 11/25/2013

#### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2627813

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ERIC M. MOORE	09/21/2011
JOHN D. STELTER	09/21/2011
MICHAEL R. BERRIGAN	09/21/2011
FRANCIS E. PORBENI	09/21/2011
MATTHEW T. SCHOLZ	09/22/2011
KEVIN D. LANDGREBE	09/21/2011
SIAN F. FENNESSEY	09/24/2011
JAY M. JENNEN	09/21/2011

#### **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
PCT Number:	US2010028263

#### **CORRESPONDENCE DATA**

 Fax Number:
 (651)736-3833

 Phone:
 651-733-1500

 Email:
 jmjurek@mmm.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: PO BOX 33427

Address Line 4: ST PAUL, MINNESOTA 55133-3427

**PATENT** 

**REEL: 031670 FRAME: 0493** 

340.00 US20100

502581761

ATTORNEY DOCKET NUMBER:	64410US006
NAME OF SUBMITTER:	JONI JUREK
Signature:	/Joni Jurek/
Date:	11/25/2013

### Total Attachments: 15

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PATENT REEL: 031670 FRAME: 0494

## ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	DIMENSIONALLY STABLE NONWOVEN FIBROUS WEBS AND METHODS OF MAKING AND USING THE SAME
	for which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. , was filed on
M	which application is identified as PCT International Patent Application No. PCT/US2010/028263; filed March 23, 2010;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged. I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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 countries; and

I/We 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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): Eric M.	Family Name or Surname: MOORE	
Inventor's Signature:	Date: 42/ Sept 20/	ş
Residence: Roseville, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ) ss.  COUNTY OF RAMSEY )  On this A large day of		
on the day and year aforesaid.  JOANNE M JUREK  (Seal)  Notery Public  Minnesota  My Commission Expires Jenuary 31, 2016	S/////////////////////////////////////	19ul-
	I E SOURCE NOTES SO A	
Given Name (first and middle [if any]): John D.	Family Name or S STELTER	urname:
Inventor's Signature:	Date:	/ /
Residence: Hudson, Wisconsin	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA)  > ss.  COUNTY OF RAMSEY  On this day of		
above-named, and who executed the foregoing instrume	, <u>SOM</u> , before ent, as said person's free	me personally appeared the act and deed, on the day and

Given Name (first and middle [if any]): Michael R.	Family Name or Surname: BERRIGAN		
Inventor's Signature:	Date: 9/4/2	0//	
Residence:	Country:	Citizenship:	
Oakdale, Minnesota	USA	United States of America	
STATE OF MINNESOTA)  ) ss.  COUNTY OF RAMSEY  On this			
year aforesaid.	eth.		
(Seal)  JOANNE M JUREK  Notary Publik:  Minnesota  My Commission Express January 31, 2016	lotary Public	UGUSEL	

Given Name (first and middle [if any]): Francis E.	Family Name or Surname: PORBENI	
Inventor's Signature:	Date:	
Residence:	Country:	Citizenship:
Woodbury, Minnesota	USA	United States of America
STATE OF MINNESOTA )  ) ss.  COUNTY OF RAMSEY )  On this		
(Seal)  JOANNE M JUREK Notary Public Minnesota Net Commission Explores January 31, 2016	Notáry Public	2 Saral

Given Name (first and middle [if any]):	Eamily Name or C	urnama:	
Matthew T.	Family Name or Surname:		
egi edali (1. et 1. et e ele ele ele ele ele ele ele ele el	SCHOLZ		
Inventor's Signature:	Date:		
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Residence:	Country:	Citizenship:	
Woodbury, Minnesota	USA	United States of America	
STATE OF MINNESOTA )			
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COUNTY OF RAMSEY )			
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Given Name (first and middle [if any]):	Family Name or S	urname:	
Given Name (first and middle [if any]): Kevin D.	Family Name or S	urname:	
Kevin D.	LANDGREBE Date:		
Kevin D. Inventor's Signature:	LANDGREBE Date:		
Kevin D.	LANDGREBE Date:		
Kevin D. Inventor's Signature:  **Torin D. Jandy Inc. Residence:	LANDGREBE Date:		
Residence: Woodbury, Minnesota	LANDGREBE Date:	urname: // Citizenship: United States of America	
Residence: Woodbury, Minnesota STATE OF MINNESOTA )	LANDGREBE Date:		
Kevin D.  Inventor's Signature:  Residence:  Woodbury, Minnesota  STATE OF MINNESOTA )  ) ss.  COUNTY OF RAMSEY	LANDGREBE Date:	~// Citizenship: United States of America	
Kevin D.  Inventor's Signature:  Residence:  Woodbury, Minnesota  STATE OF MINNESOTA )  ) ss.  COUNTY OF RAMSEY	LANDGREBE Date:	~// Citizenship: United States of America	
Residence: Woodbury, Minnesota  STATE OF MINNESOTA )  COUNTY OF RAMSEY  On this 2/8 day of 2/20/20/20/20/20/20/20/20/20/20/20/20/20	LANDGREBE Date:  9-2/ Country: USA before	~// Citizenship: United States of America me personally appeared the	
Residence:  Woodbury, Minnesota  STATE OF MINNESOTA )  Ses.  COUNTY OF RAMSEY  On this 2/2 day of above-named, and who executed the foregoing instruments.	LANDGREBE Date:  9-2/ Country: USA before	~// Citizenship: United States of America me personally appeared the	
Residence: Woodbury, Minnesota  STATE OF MINNESOTA )  COUNTY OF RAMSEY  On this 2 day of	LANDGREBE Date:  9-2/ Country: USA before	~// Citizenship: United States of America me personally appeared the	
Residence:  Woodbury, Minnesota  STATE OF MINNESOTA )  SS.  COUNTY OF RAMSEY  On this 2/ day of above-named, and who executed the foregoing instrume year aforesaid.	LANDGREBE Date:    G-2     Country: USA     before ent, as said person's free	~// Citizenship: United States of America me personally appeared the eact and deed, on the day and	
Inventor's Signature:  Residence: Woodbury, Minnesota  STATE OF MINNESOTA )  SS.  COUNTY OF RAMSEY  On this 2/2 day of above-named, and who executed the foregoing instrume year aforesaid.  JOANNE M JUREK  Notary Public	LANDGREBE Date:    G-2     Country: USA     before ent, as said person's free	~// Citizenship: United States of America me personally appeared the	
Residence: Woodbury, Minnesota  STATE OF MINNESOTA )  SS.  COUNTY OF RAMSEY  On this 2/2 day of above-named, and who executed the foregoing instrume year aforesaid.	LANDGREBE Date:    G-2     Country: USA     before ent, as said person's free	~// Citizenship: United States of America me personally appeared the eact and deed, on the day and	

	<del>*</del>	
Given Name (first and middle [if any]): Sian F.	Family Name or Surname: FENNESSEY	
Inventor's Signature:	Date:	
Residence: Büntstrasse 4, 5430 Wettingen	Country: Switzerland	Citizenship: United States of America and United Kingdom
Witness	Witness	
Given Name (first and middle [if any]): Jay M.	Family Name or Surname: JENNEN	
Inventor's Signature:	Date: 1/2//	2011
Residence: Forest Lake, Minnesota	Country: USA	Citizenship: United States of America
STATE OF ) ss. COUNTY OF Remains ) On this, day of, day of,,,,		
above-named Jay M. Jennen and who	executed the foregoing	j instrument, as said person's
free act and deed, on the day and year aforesaid.		
(Seal)  JOANNE M JUREX  Motary Public  Minnesots  Mr Commission Expire January 31, 2016	Notary Public	29uul

## ASSIGNMENT OF APPLICATION

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	DIMENSIONALLY STABLE NONWOVEN FIBROUS WEBS AND METHODS OF MAKING AND USING THE SAME
	for which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No. , was filed on
$\boxtimes$	which application is identified as PCT International Patent Application No. PCT/US2010/028263; filed March 23, 2010:

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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 countries; and

I/We 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.

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and midd Eric M.	lame (first and middle [if any]): Family Name o MOORE		or Surname:
Inventor's Signature:	ds.	Date:	
Residence:		Country:	Citizenship:
Roseville, Minnesota		USA	United States of America
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COUNTY OF RAMSEY )			
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ahove-named Fric M MOORE a	nd who executed the fore	anina instrument	as said person's free act and deed,
on the day and year aforesaid.	id wito excedited are tore	anis manament	as saw person's need doct and deced
on the day and year aloresaid.			
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Notary Public			
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Given Name (first and midd John D.	ie (if anyj):	Family Name STELTER	or Surname:
Inventor's Signature:		Date:	
e de la companya de	: ···		
Residence: Hudson, Wisconsin		Country: USA	Citizenship: United States of America
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STATE OF MINNESOTA)			
) ss. COUNTY OF RAMSEY )			
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above-named , and who executed the foregoing instrument, as said person's free act and deed, on the day and			
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Case No. 64410US006

**REEL: 031670 FRAME: 0501** 

Given Name (first and middle [if any]): Michael R.	Family Name or Surname: BERRIGAN	
Inventor's Signature:	Date:	
Residence: Oakdale, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ) ss.  COUNTY OF RAMSEY ) On this day of,, before me personally appeared the above-named , and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.		
(Seal) Notary Public		
Given Name (first and middle [if any]): Francis E.	Family Name or S PORBENI	urname:
Inventor's Signature:	Date:	
Residence: Woodbury, Minnesota	Country: USA	Citizenship: United States of America
STATE OF MINNESOTA ) ) ss.  COUNTY OF RAMSEY ) On this day of,, before me personally appeared the above-named , and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.		
above-named , and who executed the foregoing instrume		

Given Name (first and middle [if any]): Matthew T.	Family Name or Sur SCHOLZ	name:
Inventor's Signature:	Date: 9~22~1/	
Residence: Woodbury, Minnesota		Citizenship: United States of America
above-named and who executed the foregoing instrume year aforesaid.  (Seal) LORI J SHEETZ		ne personally appeared the act and deed, on the day and

Given Name (first and middle [if any]): Kevin D.		Family Name or Surname: LANDGREBE	
Inventor's Signature:		Date:	
Residence:		Country:	Citizenship:
Woodbury, Minnesota		USA	United States of America
STATE OF MINNESOTA ) ss.			in Albert Flague in Green in the Control of the Con
COUNTY OF RAMSEY		9	
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above-named , and who executed the foregoi	ng instrume	ent, as said persor	n's free act and deed, on the day and
year aforesaid.			
(Seal)	2		
		Notary Public	

Given Name (first and middle [if any]): Sian F.	Family Name or Surname: FENNESSEY	
Inventor's Signature:	Date:	i pa pastali V mining pa mang mang mang mang mang mang mang man
Residence: Büntstrasse 4, 5430 Wettingen	Country: Switzerland	Citizenship: United States of America and United Kingdom
Witness	Witness	District Section 1995 (1995) (
Given Name (first and middle [if any]): Jay M.	Family Name or : JENNEN	Surname:
Inventor's Signature:	Date:	
Residence: Forest Lake, Minnesota	Country: USA	Citizenship: United States of America
STATE OF ) ) ss.  COUNTY OF ) On this day of	,, befo	e me personally appeared the

above-named \_\_\_\_\_\_ and who executed the foregoing instrument, as said person's

Notary Public

free act and deed, on the day and year aforesaid.

Case No.: 64410US006

(Seal)

# **ASSIGNMENT OF APPLICATION**

Whereas I/we, the below named inventor(s), with residence and citizenship as indicated below, have made an invention in

	DIMENSIONALLY STABLE NONWOVEN FIBROUS WEBS AND METHODS OF MAKING AND USING THE SAME
	for which an application for a United States Patent is being filed contemporaneously herewith;
	for which an application for a United States Patent identified as U.S. Patent Application No., was filed on
$\boxtimes$	which application is identified as PCT International Patent Application No. PCT/US2010/028263; filed March 23, 2010;

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I/we have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me/us had this assignment and transfer not been made;

I/We do further agree for myself/ourselves and for my/our 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/we 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 countries; and

I/We 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.

Assignment

Page 1 of 5

In witness whereof, I/we have signed my/our name(s) on the day and year set forth below.

Given Name (first and middle [if any]): Eric M	Family Name or Surname: MOORE		
Inventor's Signature:	Date:		
Residence: Roseville, Minnesota	Country: Citizenship: USA United States of America		
STATE OF MINNESOTA ) ) ss.  COUNTY OF RAMSEY ) On this day of,, before me personally appeared the above-named Eric M MOORE, and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.  (Seal)  Notary Public			
Given Name (first and middle [if any]): Family Name or Surname:			
John D.	STELTER		
Inventor's Signature:	Date:		
Residence: Hudson, Wisconsin	Country: USA	Citizenship: United States of America	
STATE OF MINNESOTA )  ) ss.  COUNTY OF RAMSEY )  On this day of,, before me personally appeared the above-named , and who executed the foregoing instrument, as said person's free act and deed, on the day and year aforesaid.			
Seal)  Notary Public			

Given Name (first and middle [if any]): Michael R.	Family Name or Surname: BERRIGAN			
Inventor's Signature:	Date:			
Residence:	Country:	Citizenship:		
Oakdale, Minnesota	USA	United States of America		
STATE OF MINNESOTA) ) ss. COUNTY OF RAMSEY)				
On this day of				
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Given Name (first and middle (if any)):	Family Nama	yr Surnama:		
	ven Name (first and middle [if any]): Family Name or Surname:			
Francis E.	PORBENI			
Inventor's Signature:	Date:	·		
Residence:	Country	Citivanahin		
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) ss.  COUNTY OF RAMSEY )  On this day of above-named , and who executed the foregoing instrum year aforesaid.				

Given Name (first and middle [if any]): Matthew T.	Family Name or Surname: SCHOLZ		
Inventor's Signature:	Date:		
Residence: Woodbury, Minnesota	Country: USA	Citizenship: United States of America	
	) ss.		
above-named , and who executed the foregoing instrume year aforesaid.	ent, as said person's fre	e act and deed, on the day and	
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	(Notary Fubrio)		
Given Name (first and middle [if any]): Family Name or Surname:  LANDGREBE			
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Woodbury, Minnesota	USA	United States of America	
STATE OF MINNESOTA )			
OUNTY OF RAMSEY )			
On this day of,, before me personally appeared the			
above-named , and who executed the foregoing instrume	ent, as said person's fre	e act and deed, on the day and	
year aforesaid.			
(Seal)	Seal) Notary Public		

Given Name (first and middle [if any]): Sian F.	Family Name of FENNESSEY	Family Name or Surname:	
Inventor's Signature:	Date:		
Whennessy	9-24-	2011	
Residence:	Country.	Citizenship:	
Büntstrasse 4, 5430 Wettingen	Switzerland	United States of America and United Kingdom	
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Given Name (first and middle (if any)): Jay M.	Family Name	or Surname:	
Inventor's Signature:	Date:		
Residence:	Country:	Citizenship:	
Forest Lake, Minnesota	USA	United States of America	
STATE OF ) iss. COUNTY OF )			
On this day of	, be	fore me personally appeared the	
	•	oing instrument, as said person's	
free act and deed, on the day and year aforesaid.			
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**RECORDED: 11/25/2013**