PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2932419

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN W. HENDERSON	06/25/2014
TIEN T. UI	06/25/2014
GUSTAVO H. CASTRO	06/25/2014
GERRY A. HOFFDAHL	06/25/2014
DAVID L. VALL	06/27/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14368540

CORRESPONDENCE DATA

Fax Number: (651)733-1500

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: jlanderson6@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER: 68059US004	
NAME OF SUBMITTER: JAMIE L. ANDERSON	
SIGNATURE:	/Jamie L. Anderson/
DATE SIGNED:	07/10/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 5

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502885822 REEL: 033283 FRAME: 0323

PATENT

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> PATENT REEL: 033283 FRAME: 0324

Case No:

68059US004

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:

	APPARATU	S AND METHODS FOR PRO	DUCING N	ONWOVEN FIBROUS WEBS
The	specification of whi	ich:		
	is attached hereto:			
	was filed on as United States A	Application No.		
Ø	is identified as PC filed on	T International Application No. December 21, 2012		PCT/US2012/071177
The	above-identified ap	oplication was made or authorized to	be made by r	ne.
		that any willful false statement made not more than 5 years, or both.	e in this declara	ation is punishable under 18 U.S.C. 1001 by
and 3M (assi cont by n term all L then own inter cont part	do hereby assign a COMPANY, and a c gns, the entire right inuation (in whole che or made jointly whination of, my empletters Patent, reexacto (including the right name and to claim mational conventior thuation (in whole cupon the said inver	and transfer unto the 3M INNOVATION 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 improsorment with 3M COMPANY and argument with 3M COMPANY an	VE PROPERT principal office of invention and and to any and to any and to existing thereof, of the publications to been or mareissue, or othereof and enjection and enjection of the pelid and enjection of the pelid and enjection or the pelid and enjection or the pelid and enjection of the pelid and enjection or the pelid and enjection of the pelid and enjection of the pelid and enjection and	wiledged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or diall improvements in the said invention made de during, or within one year after the gior future subsidiaries), and in and to any and United States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled underly be granted thereon or on any divisional, or or further application based in whole or in oyed as fully and exclusively as they would
cons that and	sideration any furthe may be deemed ne	er applications, assignments, and decessary by said Company, its succ	ocuments, and essors, assign	ors, to execute and deliver without further to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title, whodels, or Inventors' Certificates in any and all
grar		e said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire righ
ı .	gai Name of invento hn W. Henders			
Inv	entor's Signature:		Date:	
	Jan 4). Hudran	6/	25/2014

3M 1855053v1

Case No:

68059US004

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:

	APPARATU	JS AND METHODS FOR PRO	ODUCING N	NONWOVEN FIBROUS WEBS
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	is attached hereto	o;		
	was filed on as United States	Application No.		
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The	above-identified a	pplication was made or authorized t	o be made by	me.
		that any willful false statement mad f not more than 5 years, or both.	e in this decla	ration is punishable under 18 U.S.C. 1001 by
and 3M assi conf by n term all L ther own inter conf part	do hereby assign a COMPANY, and a gns, the entire righ tinuation (in whole ne or made jointly white the patters Patent, reex eto (including the rational conventionation (in whole upon the said investional conventional conventi	and transfer unto the 3M INNOVAT: corporation of Delaware, having its at, title, and interest in and to the sai or in part) of said application, and in with others (provided any such imprologment with 3M COMPANY and a caminations, reissues, or extensions right to apply for Letters Patent, Utiling any priority rights for such foreign ons, treaties, or otherwise), which have or in part), renewal, reexamination,	IVE PROPER principal office of invention and to any a covernment is many of its existing thereof, of the applications to the peen or many of held and er the held and er the peen or office held and er the period of	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and application, and in and to any division or and all improvements in the said invention made ade during, or within one year after the ag or future subsidiaries), and in and to any and a United States of America and countries foreign inventors' Certificates in foreign countries in its owhich such applications are entitled under ay be granted thereon or on any divisional, her or further application based in whole or in anjoyed as fully and exclusively as they would
con: that and	sideration any furth may be deemed n	ner applications, assignments, and c recessary by said Company, its succ	tocuments, ar cessors, assig	tors, to execute and deliver without further of to perform such other acts as I lawfully may, ns, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
grar		ie said applications, to said 3M Inno		any and all Letters Patent which may be ties Company, as the assignee of the entire righ
	gal Name of Invent ustavo H. Cast		uinuiseurinuseuriinis	
lnv	ventor's Signature		Date:	76/25/2014

3M 1855056v1

Case No:

68059US004

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:

APPARATUS AND METHODS FOR PRO	
The specification of which:	AND THE PROPERTY OF THE PROPER
is attached hereto;	
was filed on	
as United States Application No.	
•	
is identified as PCT International Application No.	PCT/US2012/071177
filed on December 21, 2012	
The above-identified application was made or authorized to	be made by me.
hereby acknowledge that any willful false statement made ine or imprisonment of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
IM 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 my me or made jointly with others (provided any such improvermination of, my employment with 3M COMPANY and an all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utility own name and to claim any priority rights for such foreign a international conventions, treaties, or otherwise), which have continuation (in whole or in part), renewal, reexamination, no part upon the said invention or improvements thereon, to be any been by me had this assignment and transfer not been as the said invention or improvements.	and to any and all improvements in the said invention made wement 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 / 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, eissue, or other or further application based in whole or in a held and enjoyed as fully and exclusively as they would n made;
hat may be deemed necessary by said Company, its succe	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
do hereby authorize and request the Commissioner of Pat granted upon any of the said applications, to said 3M Innov tle, and interest therein.	tents to issue any and all Letters Patent which may be rative Properties Company, as the assignee of the entire right,
Legal Name of Inventor: Gerry A. Hoffdahl	
Inventor's Signature:	Date:
4 - 1/11/00	6/25/2211

3M 1855058v1

Case No:

68059US004

		entor, I believe I am an original inven ch a patent is sought on the invention		ginal joint inventor of a claimed invention in the
	APPARATU	IS AND METHODS FOR PRO	DUCING N	ONWOVEN FIBROUS WEBS
he	specification of wh	ich:	***************************************	
	is attached hereto);		
	was filed on			
	as United States /	Application No.		
\boxtimes		T International Application No.		PCT/US2012/071177
	filed on	December 21, 2012		
The	above-identified a	oplication was made or authorized to	be made by	me.
		that any willful false statement made for not more than 5 years, or both.	in this declar	ation is punishable under 18 U.S.C. 1001 by
and BM (do hereby assign a COMPANY, and a	and transfer unto the 3M INNOVATIV corporation of Delaware, having its p	E PROPERT rincipal office	owledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and d 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 had this assignment and transfer not been made;

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 countries; and

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.

Legal Name of Inventor: Tien T. Wu		
Inventor's Signature:	Seal.	Date:
	701	6/05/14
Committed of the second	Carl M	7 4 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

3M 1855055v1

Case No:

68059US004

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:

APPARATUS AND METHODS FOR PRO	DUCING NONWOVEN FIBROUS WEBS
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on December 21, 2012	PCT/US2012/071177
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 INNOVATI' 3M 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 ar all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utilit own name and to claim any priority rights for such foreign a international conventions, treaties, or otherwise), which have	and to any and all improvements in the said invention made evement is made during, or within one year after the my 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
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 Inno title, and interest therein.	itents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right,
Legal Name of Inventor: David L. Vall	
Inventor's Signature:	Date:
Dail 2. Vall	6/27/14

3M 1855059v1

RECORDED: 07/10/2014

PATENT REEL: 033283 FRAME: 0329