PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2912925

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TIEN T. WU	06/02/2014
JOHN W. HENDERSON	05/30/2014
GUSTAVO H. CASTRO	06/19/2014
GERRY A. HOFFDAHL	05/29/2014
DAVID L. VALL	05/30/2014

RECEIVING PARTY DATA

Name:	3M INNOVATIVE PROPERTIES COMPANIES
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:	14368549

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.

Phone: 651-733-1500

Email: jlanderson6@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:	68060US004
NAME OF SUBMITTER:	JAMIE L. ANDERSON
SIGNATURE:	/Jamie L. Anderson/
DATE SIGNED:	06/25/2014
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 5

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REEL: 033174 FRAME: 0109

PATENT

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Case No:

68060US004

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:

METHODS AND APPARATUS FOR PRODUC	CING 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 20, 2012	PCT/US2012/070757
The above-identified application was made or authorized to be r	nade by me.
I hereby acknowledge that any willful false statement made in th fine or imprisonment of not more than 5 years, or both.	is declaration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which and do hereby assign and transfer unto the 3M INNOVATIVE PI 3M COMPANY, and a corporation of Delaware, having its principassigns, the entire right, title, and interest in and to the said invecontinuation (in whole or in part) of said application, and in and to the said invector made jointly with others (provided any such improvement termination of, my employment with 3M COMPANY and any of it all Letters Patent, reexaminations, reissues, or extensions there thereto (including the right to apply for Letters Patent, Utility Modown name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have be continuation (in whole or in part), renewal, reexamination, reissue part upon the said invention or improvements thereon, to be helicated been by me had this assignment and transfer not been materially in the part of the form of the part of the	ROPERTIES COMPANY, a wholly-owned subsidiary of pal office at Saint Paul, Minnesota, its successors and ntion and application, and in and to any division or to any and all improvements in the said invention made ent is made during, or within one year after the its existing or future subsidiaries), and in and to any and of, of the United States of America and countries foreign dels, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under en or may be granted thereon or on any divisional, ite, or other or further application based in whole or in d and enjoyed as fully and exclusively as they would ide;
consideration any further applications, assignments, and docum that may be deemed necessary by said Company, its successor and interest as aforesaid and to obtain or maintain Letters Pater countries; and	ents, and to perform such other acts as I lawfully may, s, assigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents granted upon any of the said applications, to said 3M Innovative title, and interest therein.	
Legal Name of Inventor: Tien T. Wu	
Inventor's Signature: Dat	e:
Lien J. W.	6/2/2014

Case No:

68060US004

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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The sn	pecification of wh		T CRUUUUING !	IONWOVEN FIBROUS WEBS
*.	attached hereto			
	ras filed on s United States	Application No.		
	identified as PC led on	T International Application N December 20, 2012	lo.	PCT/US2012/070757
The ab	oove-identified a	oplication was made or autho	orized to be made by	me.
		that any willful false stateme f not more than 5 years, or bo		ration is punishable under 18 U.S.C. 1001 by
and do BM CC assign continu by me termina all Lett thereto own na nterna continu oart up	o hereby assign of the control of th	and transfer unto the 3M INN corporation of Delaware, have t, title, and interest in and to or in part) of said application with others (provided any such opportunity aminations, reissues, or extended to apply for Letters Paters any priority rights for such fins, treaties, or otherwise), whor in part), renewal, reexaminations, renewal, reexaminations, renewal, reexaminations, treaties, or otherwise).	OVATIVE PROPER' ving its principal offici the said invention an and in and to any and in improvement is maint and any of its existing raid any of its existing and any of its existing raid any of its existing and any of its existing raid and end of its principal and its principal and its raid of its principal and raid	rowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of a at Saint Paul, Minnesota, its successors and d 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 nited States of America and countries in its owhich such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in anyoyed as fully and exclusively as they would
consid that ma and int	leration any furth ay be deemed n	er applications, assignments ecessary by said Company,	, and documents, an	tors, to execute and deliver without further d 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
grante		e said applications, to said 3		any and all Letters Patent which may be ties Company, as the assignee of the entire right,
-	Name of Inventor			
Inven	ntor's Signature:). Wales	Date:	5/30/2014

Case No:

68060US004

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 which	th a patent is sought on the invention	n entitled:	
METHODS /	AND APPARATUS FOR PRO	DUCING NO	ONWOVEN FIBROUS WEBS
The specification of whi	ch:		
is attached hereto			
was filed on as United States A	pplication No.		
is identified as PC filed on	T International Application No. December 20, 2012		PCT/US2012/070757
The above-identified ap	plication was made or authorized to	be made by n	ie.
ine or imprisonment of	not more than 5 years, or both.		ition is punishable under 18 U.S.C. 1001 by wiedged, I have agreed to assign and transfer
and do hereby assign a SM COMPANY, and a consigns, the entire right continuation (in whole copy me or made jointly who ermination of, my emplail Letters Patent, reexa hereto (including the right own name and to claim international convention continuation (in whole copart upon the said invertional eart upon the said invertigated in t	and transfer unto the 3M INNOVATIVe corporation of Delaware, having its proporation of Delaware, having its proporation of Delaware, having its proporation and interest in and to the said or in part) of said application, and invith others (provided any such improporate with 3M COMPANY and an aminations, reissues, or extensions to ght to apply for Letters Patent, Utility any priority rights for such foreign ans, treaties, or otherwise), which have in part), renewal, reexamination, intion or improvements thereon, to be his assignment and transfer not bee	/E PROPERTI orincipal office invention and and to any and vement is mad y of its existing hereof, of the Models, or In pplications to been or may eissue, or othe held and enju n made;	ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or I all improvements in the said invention made the during, or within one year after the I or 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 under to be granted thereon or on any divisional, are or further application based in whole or in coyed as fully and exclusively as they would
consideration any furthe hat may be deemed no	er applications, assignments, and do ocessary by said Company, its succ	cuments, 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, Models, or Inventors' Certificates in any and all
do hereby authorize a granted upon any of the itle, and interest therei	e said applications, to said 3M Innov	ents to issue a ative Propertie	any and all Letters Patent which may be as Company, as the assignee of the entire right,
Legal Name of Inventor Gerry A. Hoffdah			
Inventor's Signature:		Date:	
7 4			

PATENT REEL: 033174 FRAME: 0113

5-29-2014

puil 2 Val

Case No:

68060US004

As a below named inv	entor, I believe I am an original inventor or an ich a patent is sought on the invention entitled:	original joint inventor of a claimed invention in the
METHODS	AND APPARATUS FOR PRODUCING	NONWOVEN FIBROUS WEBS
The specification of wh	nich:	
is attached hereto	3 %	
was filed on		
as United States	Application No.	
is identified as PC	CT International Application No.	PCT/US2012/070757
filed on	December 20, 2012	
The above-identified a	pplication was made or authorized to be made	by me:
	that any willful false statement made in this de f not more than 5 years, or both.	claration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire righ continuation (in whole by me or made jointly termination of, my empail Letters Patent, reex thereto (including the rown name and to claim international convention continuation (in whole part upon the said invehave been by me had	and transfer unto the 3M INNOVATIVE PROPI corporation of Delaware, having its principal of it, title, and interest in and to the said invention or in part) of said application, and in and to any with others (provided any such improvement is ployment with 3M COMPANY and any of its eximinations, reissues, or extensions thereof, of right to apply for Letters Patent, Utility Models, in any priority rights for such foreign application ons, treaties, or otherwise), which have been or or in part), renewal, reexamination, reissue, or ention or improvements thereon, to be held and this assignment and transfer not been made;	y and all improvements in the said invention made made during, or within one year after the sting or future subsidiaries), and in and to any and the United States of America and countries foreign or 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 furth that may be deemed n and interest as aforesa countries; and	recessary by said Company, its successors, as aid and to obtain or maintain Letters Patent, Ut	and to perform such other acts as I lawfully may, signs, and nominees, fully to secure its right, title, litty Models, or Inventors' Certificates in any and all
I do hereby authorize a granted upon any of the title, and interest there		sue any and all Letters Patent which may be perfies Company, as the assignee of the entire right
Legal Name of Inven David L. Vall	107.	
Inventor's Signature	Date:	

PATENT REEL: 033174 FRAME: 0114

5/30/14

RECORDED: 06/25/2014

Case No:

68059US004

		entor, I believe I am an original inventor or a ch a patent is sought on the invention entitled	n original joint inventor of a claimed invention in the
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The	specification of wh		
	is attached hereto		
	was filed on as United States	Application No.	
\boxtimes	is identified as PC filed on	T International Application No. December 21, 2012	PCT/US20013/071177
The	above-identified a	pplication was made or authorized to be mad	e by me.
		that any willful false statement made in this d f not more than 5 years, or both.	eclaration is punishable under 18 U.S.C. 1001 by
and 3M (assi- cont by n em all L her own nter cont	do hereby assign a COMPANY, and a gns, the entire righ inuation (in whole he or made jointly want ination of, my emp etters Patent, reex eto (including the rame and to claim mational convention inuation (in whole upon the said inve	and transfer unto the 3M INNOVATIVE PROF corporation of Delaware, having its principal of t, title, and interest in and to the said invention or in part) of said application, and in and to and with others (provided any such improvement in ployment with 3M COMPANY and any of its eleminations, reissues, or extensions thereof, of ight to apply for Letters Patent, Utility Models of any priority rights for such foreign applications, treaties, or otherwise), which have been of or in part), renewal, reexamination, reissue, of	acknowledged, I have agreed to assign and transfer PERTIES COMPANY, a wholly-owned subsidiary of office at Saint Paul, Minnesota, its successors and in and application, and in and to any division or my and all improvements in the said invention made is made during, or within one year after the existing or future subsidiaries), and in and to any and of the United States of America and countries foreign, or Inventors' Certificates in foreign countries in its inside to which such applications are entitled under for may be granted thereon or on any divisional, or other or further application based in whole or in ad enjoyed as fully and exclusively as they would
			istrators, to execute and deliver without further

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: Gustavo H. Castro	
Inventor's Signature:	Date: 06/19/2014