505223173 12/06/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5269942

SUBMISSION TYPE:		NEW ASSIGNMENT	
NATURE OF CONVEYA	YANCE: ASSIGNMENT		
CONVEYING PARTY I	ΟΑΤΑ		
		Name	Execution Date
SCOTT A. CLEAR			11/09/2018
MICHAEL S. SCHUFFI	FERT 11/13/20		11/13/2018
RECEIVING PARTY D Name:		OVATIVE PROPERTIES COMPA	ANY
Street Address:	P.O. BOX 33427		
	SAINT PAUL		
City:	SAINT F	PAUL	

Postal Code:	55133-3427

MINNESOTA

PROPERTY NUMBERS Total: 1

State/Country:

Property Type	Number
Application Number:	29662774

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:	NSCONWAY@MMM.COM		
Correspondent Name:	3M INNOVATIVE PROPERTIES COMPANY		
Address Line 1:	P.O. BOX 33427		
Address Line 4:	SAINT PAUL, MINNESOTA 55133-3427		

81135US002
NICOLE S. CONWAY
/Nicole S. Conway/
12/06/2018
This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

source=Declaration_Assignment_ScottClear_81135US002#page1.tif

source=Declaration_Assignment_MichaelSchuffert_81135US002#page1.tif

is attached hereto; was filed on set on set on the set of the seto		UTILITY OR DESIGN PLICATION (37 CFR § 1.63)	Case No:	81135US002
The specification of which:	As a below named in application and for wt	ventor, I believe I am an original inv tich a patent is sought on the inventi	entor or an original join on entitled:	I inventor of a claimed invention in th
is attached hereto; Was filed on a United States Application No. is identified as PCT International Application No. filed on The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by line or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged. I have agreed to assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an ed to hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors any more or ande jointly with the, and interset in and to the said invention and application, and in and to any version or continuation (in whole or in part) of said application, and in and to any 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 e all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries in in own name and to claim any priority rights for such foreign applications to which such applications are entilled under international conventions, treaties, or otherwise), which have been or may be graited thereon or on any divisional. I betters Patent, mexamination reinsove, therein applications to which such applications are entilled under international to apply itor therwise, which have been or may be graited thereon o		THREE DIMENSIO	VAL FILTER FRAN	IE
was field on SEPTEMBER 7, 2018 as United States Application No. is identified as PCT International Application No. field on The above-identified application was made or authorized to be made by me. Ihereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged. I have agreed to assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an ad onthere or in part) of said application, and in and to any division or continuation (in whole or in part) of said application, and in and to any division or continuation (in whole or in part) of said applications thered; of the United States of America and countries for thereto including the right to apply for therwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), releval, reexamination, reissue, or other or further applications are entilled under internation din whole or in part), releval, reexamination, reissue, or otherwise, and in any be argined thereon or on any divisional, continuation (in whole or in part), releval, reexamination, reissue, or other or further applications are entilled under internation din whole or in part, nerwal, reexamination, reissue, or other or further applications are entilled under consideration any further application as assignments, and doministrators, to execute and deliver without f	The specification of w	thich:		
as United States Application No. 29/662,774 is identified as PCT International Application No. fied on The above-identified application was made or authorized to be made by me. I hereby acknowledge that any wilful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged. I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul. Minnesota, its successors an assigns, the entire right, title, and interest in and to any and all improvements in the said invention 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 ternination of my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any anil as the transfer in and to any any priority rights for such foreign applications to which such applications are entilled under international conventions, treates, or otherwise), which have been or may be granited thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further applications based in whole or in part upon the said invention or improvements, and documents, and to perform such other as as I lawfully may that may be deemed necessary by said Company, its successors, assigns, and moninese, fully to be as a low whole or in part, preveal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements, and documents, and to perform such other acts as I lawfully may that may be deemed necessary by said Company, its successors, assigns, and nomineese,	is attached here	to:		
as United States Application No. 29/662,774 is identified as PCT International Application No. field on The above-identified application was made or authorized to be made by me. I hereby acknowledge that any wilful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and trans and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an 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 mat by me or made jointly wilk 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 all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of Amenica and countries fore thereto (including the right to apply for Letters Patent, utility Models, or Inventors' Cartificates in foreign applications to which such applications are willed under in thermational conventions, treates, or otherwise), which have been or may be granited thereon or on any division or part upon the said invention or improvements, and documents, and to perform such other acts as I lawfully mat harw 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 Urither applications, to said Company, its successors, assigns, and nominees, fully to socure its right, titly and interest as aforesaid and to obtain or	🔀 was filed on	SEPTEMBER 7, 2018		
filed on The above-identified application was made or authorized to be made by me. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by line or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfe and do hareby assign and transfe unto the SM INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary SM COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an assigns, the entire night, tille, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of soid application, and in and to any adil improvements in the said invention of (in whole or in part) of soid application, and in and to any adil improvements in the said invention of (in whole or in part) of soid explication, and in and to any adil and rot only and all improvements in the said invention of in whole or in part) of soid explication, and in and to any adil and to any adil all Letters Patent, reexaminations, resisues, or extensions thereof, of the United States of America and countries for therato (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in i own name and to claim any priority rights for such foreign applications to which such applications are entilled under international (in whole or in part), renewal, reexamination, relesue, or other vise). I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any priority rights for such foreign applications to execute and deliver without further consideration any forther applications, assignments, and documents, and to perform such other acts as I tawfully may that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, til			29/66	2,774
and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an 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 mare 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 a all Letters Patient, reexaminations, reissues, or extensions thereof, of the United States of America and countries fore thereto (including the nght to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in it own name and to claim any priority nghts 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 content in mode or in part), renewal, reexamination, reissue, or other or further application based in whole or in any divisional conventions intervise), 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 and transfer not been made.		CT International Application No.		
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by line or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transs and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors an assigns, the entire right, tile, 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 mate 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 as all Letters Patient, reexaminations, relasue, or extensions thereof, of the United States of America and countries fore therato (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in it 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 thereen 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; 1 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 nominees, fully to secure its right, till and interest as aforesaid and to	The above-identified .	application was made or authorized	o be made by me.	
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 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 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: 	In addition, for good a and do hereby assign 3M COMPANY, and a assigns, the entire rig	and valuable consideration, receipt on and transfer unto the 3M INNOVAT a corporation of Delaware, having its pht, title, and interest in and to the se	IVE PROPERTIES CO principal office at Saint d invention and applica	MPANY, a wholly-owned subsidiary on Paul, Minnesota, its successors and tion, and in and to any division or
granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire ri Litle, and interest therein. Legal Name of Inventor: SCOTT A. CLEAR	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 cla international convent continuation (in whole part upon the said inv have been by me had	and valuable consideration, receipt o a and transfer unto the 3M INNOVAT a corporation of Delaware, having its pht, title, and interest in and to the sa s or in pan) of said application, and in (with others (provided any such impli- ployment with 3M COMPANY and a examinations, reissues, or extensions right to apply for Letters Patent, Utill im any priority rights for such foreign ions, treaties, or otherwise), which ha a or in part), renewal, reexamination, vention or improvements thereon, to d this assignment and transfer not be	IVE PROPERTIES COI principal office at Saint d invention and applica and to any and all imp ovement is made during ny of its existing or futu i thereof, of the United S ty Models, or Inventors' applications to which si ave been or may be gra reissue, or other or furt be held and enjoyed as en made;	MPANY, a wholly-owned subsidiary of Paul, Minnesota, its successors and tion, and in and to any division or rovements in the said invention mad- g, or within one year after the re subsidiaries), and in and to any an States of America and countries forei Certificates in foreign countries forei such applications are entitled under need thereon or on any divisional, her application based in whole or in fully and exclusively as they would
SCOTT A. CLEAR	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 Patient, ree thereto (including the own name and to cla international convent continuation (in whole part upon the said in have been by me had internation any fur that may be deemed and interest as aforest	and valuable consideration, receipt o a and transfer unto the 3M INNOVAT a corporation of Delaware, having its pht, title, and interest in and to the sa s or in part) of said application, and in (with others (provided any such impli- ployment with 3M COMPANY and a examinations, reissues, or extensions right to apply for Letters Patent, Utill im any priority rights for such foreign ions, treaties, or otherwise), which ha a or in part), renewal, reexamination, vention or improvements thereon, to a this assignment and transfer not be myself and for my heirs, executors, and ther applications, assignments, and necessary by said Company, its suc-	IVE PROPERTIES COI principal office at Saint d invention and applica and to any and all imp ovement is made during ny of its existing or futu inhereor, of the United S ty Models, or Inventors' applications to which si applications to which si app	MPANY, a wholly-owned subsidiary of Paul, Minnesota, its successors and tion, and in and to any division or rovements in the said invention made g, or within one year after the re subsidiaries), and in and to any an States of America and countries forei Certificates in foreign countries forei to applications are entitled under inted thereon or on any divisional, her application based in whole or in fully and exclusively as they would execute and deliver without further orm such other acts as I lawfully may, ominees, fully to secure its right, title
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Inventor's Signature ALL Date NOVEMBER 9/2018	In addition, for good a and do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made joint), termination of, my en all Letters Patient, ree thereto (including the own name and to cla international convent continuation (in whole part upon the said inv have been by me had l do further agree for consideration any fur that may be deemed and interest as aforer countries; and I do hereby authorize granted upon any of t title, and interest ther Legal Name of Invert	and valuable consideration, receipt o and transfer unto the 3M INNOVAT a corporation of Delaware, having its pht, title, and interest in and to the sa- s or in part) of said application, and in (with others (provided any such impli- ployment with 3M COMPANY and a examinations, reissues, or extensions right to apply for Letters Patent, Utili- im any priority rights for such foreign ions, treaties, or otherwise), which has a or in part), renewal, reexamination, vention or improvements thereon, to d this assignment and transfer not be myself and for my heirs, executors, a ther applications, assignments, and on necessary by said Company, its suc- said and to obtain or maintain Letters and request the Commissioner of P the said applications, to said 3M Inno- ein.	IVE PROPERTIES COI principal office at Saint d invention and applica and to any and all imp ovement is made during ny of its existing or futu inhereof, of the United S ty Models, or Inventors' applications to which si ve been or may be gra reissue, or other or furt be held and enjoyed as en made; and administrators, to en documents, and to perfo cessors, assigns, and n Patent, Utility Models, atents to issue any and	MPANY, a wholly-owned subsidiary of Paul, Minnesota, its successors and tion, and in and to any division or rovements in the said invention made g, or within one year after the re subsidiaries), and in and to any an States of America and countries foreig Certificates in foreign countries foreig Certificates in foreign countries foreig attes of America and countries foreig Certificates in foreign countries in its sch applications are entitled under need thereon or on any divisional, her application based in whole or in fully and exclusively as they would execute and deliver without further or such other acts as I lawfully may, ominees, fully to secure its right, title, or Inventors' Certificates in any and a all Letters Patent which may be

PATENT REEL: 047694 FRAME: 0208

DECLARATION AND ASSIGNMENT, FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR § 1.63)

Case No:

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:

THREE DIMENSIONAL FILTER FRAME

The specification of which:	
is attached hereto;	
was filed on SEPTEMBER 7, 2018 as United States Application No.	
is identified as PCT International Application No.	

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

In addition, for good and valuable consideration, receipt of which is acknowledged, I 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 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:	
MICHAEL S. SCHUFFERT	
Inventor's Signature:	Date:
	11/13/2018

RECORDED: 12/06/2018