505743460 10/28/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5790273

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
LARRY S. HEBERT	10/07/2019	
DAVID A. SOWATZKE	10/11/2019	
STEVEN Y. YU	10/03/2018	
GENE B. NESMITH	10/15/2019	

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:	15736531

CORRESPONDENCE DATA

Fax Number: (651)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: 76542US010	
NAME OF SUBMITTER: SHERRI K.W. JOHNSON	
SIGNATURE:	/Sherri K.W. Johnson/
DATE SIGNED:	10/28/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 4

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PATENT REEL: 050838 FRAME: 0715

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PATENT REEL: 050838 FRAME: 0716

Case No:

76542US010

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:

PLATED POLYMERIC ARTICLE INCLUDING T	IN/COPPER TIE/SEED LAYER
The specification of which:	
is attached hereto;	
⊠ was filed on December 14, 2017	
as United States Application No.	15/736531
is identified as PCT International Application No. filed on June 13, 2016	PCT/US2016/037261
The above-identified application was made or authorized to be made	by me.
hereby acknowledge that any willful false statement made in this define or imprisonment of not more than 5 years, or both. In addition, for good and valuable consideration, receipt of which is a land do hereby assign and transfer unto the 3M INNOVATIVE PROP 3M COMPANY, and a corporation of Delaware, having its principal of assigns, the entire right, title, and interest in and to the said inventior continuation (in whole or in part) of said application, and in and to an any or made jointly with others (provided any such improvement is termination of, my employment with 3M COMPANY and any of its exall Letters Patent, reexaminations, reissues, or extensions thereof, or thereto (including the right to apply for Letters Patent, Utility Models, own name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have been occupant upon the said invention or improvements thereon, to be held and have been by me had this assignment and transfer not been made;	acknowledged, I have agreed to assign and transfer ERTIES COMPANY, a wholly-owned subsidiary of affice at Saint Paul, Minnesota, its successors and application, and in and to any division or any and all improvements in the said invention made a made during, or within one year after the disting 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 as to which such applications are entitled under a may be granted thereon or on any divisional, of other or further application based in whole or in
I do further agree for myself and for my heirs, executors, and admini- consideration any further applications, assignments, and documents that may be deemed necessary by said Company, its successors, as and interest as aforesaid and to obtain or maintain Letters Patent, Ul countries; and	, and to perform such other acts as I lawfully may, ssigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to is granted upon any of the said applications, to said 3M Innovative Protitle, and interest therein.	
Legal Name of Inventor:	
Larry S. Hebert	num.
Inventor's Signature: Date:	
Lany School Oct	Wher 7, 2019
	······································

PATENT REEL: 050838 FRAME: 0717

Case No:

76542US010

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:

.		*,
PLATED	POLYMERIC ARTICLE INCLU	DING TIN/COPPER TIE/SEED LAYER
The specification of wl	hich:	
is attached heret	D ₄ .	
⊠ was filed on as United States	December 14, 2017 Application No.	15/736531
is identified as P0 filed on	OT International Application No. June 13, 2016	PCT/US2016/037261
The above-identified a	pplication was made or authorized to	be made by me.
	that any willful false statement made f not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
3M COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reex thereto (including the rown name and to claim international convention continuation (in whole part upon the said inventions).	corporation of Delaware, having its pot, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvided any such improvided any such improvided any such improvided any and any caminations, reissues, or extensions to apply for Letters Patent, Utility in any priority rights for such foreign a ons, treaties, or otherwise), which have or in part), renewal, reexamination, re	E PROPERTIES COMPANY, a wholly-owned subsidiary of rincipal office at Saint Paul, Minnesota, its successors and invention and application, and in and to any division or and to any and all improvements in the said invention made vernent is made during, or within one year after the vertice existing or future subsidiaries), and in and to any and hereof, of the United States of America and countries foreign Models, or Inventors' Certificates in foreign countries in its opplications to which such applications are entitled under to been or may be granted thereon or on any divisional, elsewer, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would a made;
consideration any furth that may be deemed n	ner applications, assignments, and do ecessary by said Company, its succe	d administrators, to execute and deliver without further cuments, and to perform such other acts as I lawfully may, ssors, assigns, and nominees, fully to secure its right, title, eatent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize a granted upon any of th title, and interest there	e said applications, to said 3M Innova	ents to issue any and all Letters Patent which may be ative Properties Company, as the assignee of the entire right
Legal Name of Invent	or:	
David A. Sowatz	ke.	
Inventor's Signature:		Date:
Parist & Son	w/po	October 11, 2019

PATENT REEL: 050838 FRAME: 0718

Case No:

76542US010

As a below named invento application and for which a	or, I believe I am an original inve i patent is sought on the inventio	ntor or an origi n entitled:	nal joint inventor of a claimed inve	antion in the
PLATED POI	YMERIC ARTICLE INCLU	JDING TIN/C	OPPER TIE/SEED LAYER	
The specification of which:				
is attached hereto;				
	ecember 14, 2017			 - -
as United States Appl	lication No.		15/736531	
	nternational Application No. une 13, 2016		PCT/US2016/037261	
The above-identified applic	cation was made or authorized to	be made by m	ne.	
		in this declara	tion is punishable under 18 U.S.C	. 1001 bỳ
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				
title, and interest therein.		. 4		
Legal Name of Inventor: Steven Y. Yu				
Inventor's Signature:		Date:		-
Steven J.	Le	10/3/1	2018	

PATENT

REEL: 050838 FRAME: 0719

Case No:

76542US010

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:

PLATED	POLYMERIC ARTICLE INCI	UDING TIN/COPPER TIE/SEED LAYER
The specification of w	hiah:	
is attached heret	o;	
⊠ was filed on as United States	December 14, 2017 Application No.	15/736531
is identified as P	CT International Application No. June 13, 2016	PCT/US2016/037261
The above-identified a	application was made or authorized	to be made by me.
fine or imprisonment of 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 emall Letters Patent, ree thereto (including the own name and to claimternational conventicontinuation (in whole part upon the said invitational conventional continuation).	of not more than 5 years, or both, and valuable consideration, receipt and transfer unto the 3M INNOVA corporation of Delaware, having it at, title, and interest in and to the sor in part) of said application, and with others (provided any such imployment with 3M COMPANY and examinations, reissues, or extension right to apply for Letters Patent, Ut any priority rights for such foreignons, treaties, or otherwise), which he or in part), renewal, reexamination ention or improvements thereon, to this assignment and transfer not be	
consideration any furt	her applications, assignments, and necessary by said Company, its su	and administrators, to execute and deliver without further documents, and to perform such other acts as I lawfully may, cessors, assigns, and nominees, fully to secure its right, title, s Patent, Utility Models, or Inventors' Certificates in any and all
	he said applications, to said 3M Inc	Patents to issue any and all Letters Patent which may be ovative Properties Company, as the assignee of the entire right
Legal Name of Inver	ntor:	
Gene B. Nesmit		
Inventor's Signature	8	Date:
1 33 A	Resmith	10-15-2019

PATENT REEL: 050838 FRAME: 0720

RECORDED: 10/28/2019