506274751 09/28/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6321498

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
THOMAS P. KLUN	01/17/2020
ZEBA PARKAR	01/22/2020
JOHN M. RIEDESEL	01/21/2010
RICHARD J. POKORNY	01/16/2020
CHAD M. AMB	01/22/2020
BENJAMIN R. COONCE	01/16/2020
ROBERT S. CLOUGH	02/10/2020
TIANYU WU	06/30/2020
SASWATA CHAKRABORTY	01/15/2020
YONGSHANG LU	01/16/2020
BENJAMIN C. MAC MURRAY	01/20/2020
IAN DAILEY	02/05/2020
DAVID B. OLSON	01/21/2020

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:	17042384

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.

Email: cmwagner01@mmm.com

3M INNOVATIVE PROPERTIES COMPANY **Correspondent Name:**

Address Line 1: P.O. BOX 33427

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

PATENT

REEL: 053902 FRAME: 0566 506274751

ATTORNEY DOCKET NUMBER:	81014US009
NAME OF SUBMITTER:	COLLEEN M. WAGNER
SIGNATURE:	/Colleen M. Wagner/
DATE SIGNED:	09/28/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 13

source=DeclarationAssignment_81014US009#page1.tif source=DeclarationAssignment_81014US009#page2.tif source=DeclarationAssignment_81014US009#page3.tif source=DeclarationAssignment_81014US009#page4.tif source=DeclarationAssignment_81014US009#page5.tif source=DeclarationAssignment_81014US009#page6.tif source=DeclarationAssignment_81014US009#page7.tif source=DeclarationAssignment_81014US009#page8.tif source=DeclarationAssignment_81014US009#page9.tif source=DeclarationAssignment_81014US009#page10.tif source=DeclarationAssignment_81014US009#page11.tif source=DeclarationAssignment_81014US009#page12.tif source=DeclarationAssignment_81014US009#page12.tif source=DeclarationAssignment_81014US009#page13.tif

Case No:

81014US

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:

ORTHODON	TIC ARTICLES PREPARED METHODS OF	USING A POMAKING SA	OLYCARBONATE DIOL, AND
The specification of which	ch:		
is attached hereto	;		
was filed on as United States A	Application No.		
is identified as PC	T International Application No. May 21, 2019		PCT/US2019/033252
	olication was made or authorized to	be made by m	e.
I hereby acknowledge th		·	ion is punishable under 18 U.S.C. 1001 by
and do hereby assign ar 3M COMPANY, and a coassigns, the entire right, continuation (in whole or by me or made jointly witermination of, my emploall Letters Patent, reexarthereto (including the righown name and to claim a international conventions continuation (in whole or part upon the said inventional conventional conventional upon the said inventional conventional upon the said inventional said inventional conventional upon the said inventional said inventional conventional upon the said inventional upon the said inventional conventional upon the said inventional upon the said upon the said inventional upon the said upon the sa	nd transfer unto the 3M INNOVATIVID proporation of Delaware, having its printitle, and interest in and to the said in in part) of said application, and in a th others (provided any such improving pyment with 3M COMPANY and any minations, reissues, or extensions that to apply for Letters Patent, Utility any priority rights for such foreign apply, treaties, or otherwise), which have in part), renewal, reexamination, re	E PROPERTIE rincipal office a invention and a and to any and rement is made of its existing hereof, of the L Models, or Inv pplications to w be been or may issue, or other held and enjoy	vledged, I have agreed to assign and transfer is COMPANY, a wholly-owned subsidiary of the Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made aduring, or within one year after the or future subsidiaries), and in and to any and inited States of America and countries foreign entors' Certificates in foreign countries in its which such applications are entitled under the granted thereon or on any divisional, or further application based in whole or in yed as fully and exclusively as they would
consideration any further that may be deemed nec	applications, assignments, and doc essary by said Company, its succes	cuments, and t ssors. assigns.	s, to execute and deliver without further o perform such other acts as I lawfully may, and nominees, fully to secure its right, title, odels, or Inventors' Certificates in any and all
I do hereby authorize and granted upon any of the title, and interest therein.	said applications, to said 3M Innova	ents to issue ar tive Properties	ny and all Letters Patent which may be Company, as the assignee of the entire right
Legal Name of Inventor	or.		
Thomas P. Klun	<i>.</i>		
Inventor's Signature:		Date:	
Thomas M	h	01-	-17-2020

Case No:

81014US

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:

ORTHODON	TIC ARTICLES PREPARED L METHODS OF N	USING A POLYCARBONATE DIOL, AND MAKING SAME
The specification of which	h:	
is attached hereto	•	
was filed on as United States A	Application No.	
	T International Application No. May 21, 2819	PCT/US2019/033252
The above-identified app	plication was made or authorized to b	be made by me.
I hereby acknowledge the fine or imprisonment of r	at any willful false statement made in not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign an 3M COMPANY, and a coassigns, the entire right, continuation (in whole or by me or made jointly wittermination of, my emploall Letters Patent, reexarthereto (including the rigown name and to claim a international conventions continuation (in whole or part upon the said inventional said inventional conventions).	ed transfer unto the 3M INNOVATIVE proporation of Delaware, having its printille, and interest in and to the said in in part) of said application, and in arth others (provided any such improve pyment with 3M COMPANY and any minations, reissues, or extensions that to apply for Letters Patent, Utility frany priority rights for such foreign apply, treaties, or otherwise), which have in part), renewal, reexamination, rei	which is acknowledged, I have agreed to assign and transfer E PROPERTIES COMPANY, a wholly-owned subsidiary of incipal 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 rement is made during, or within one year after the of its existing or future subsidiaries), and in and to any and nereof, of the United States of America and countries foreign Models, or Inventors' Certificates in foreign countries in its oplications to which such applications are entitled under a been or may be granted thereon or on any divisional, alissue, or other or further application based in whole or in held and enjoyed as fully and exclusively as they would a made;
consideration any further that may be deemed neo	r applications, assignments, and doc cessary by said Company, its succes	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, atent, Utility Models, or Inventors' Certificates in any and all
I do hereby authorize an granted upon any of the title, and interest therein	said applications, to said 3M Innoval	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		
Zeba Parkar		
Inventor's Signature:		Date:
W.		1/22/2020

Case No:

81014US

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:

ORTHODO	ONTIC ARTICLES PREPARED METHODS OF		
The specification of w	which:		
is attached her	reto;		
was filed on as United State	es Application No.		
is identified as filed on	PCT International Application No. May 21, 2019		PCT/US2019/033252
The above-identified	application was made or authorized to	o be made by m	ne.
I hereby acknowledge fine or imprisonment	e that any willful false statement made of not more than 5 years, or both.	∍ in this declara	ation is punishable under 18 U.S.C. 1001 by
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 invalue been by me had	n and transfer unto the 3M INNOVATIVA a corporation of Delaware, having its part, title, and interest in and to the said le or in part) of said application, and in y with others (provided any such impropriet methods and such impropriet with 3M COMPANY and an examinations, reissues, or extensions or right to apply for Letters Patent, Utility aim any priority rights for such foreign attions, treaties, or otherwise), which have le or in part), renewal, reexamination, revention or improvements thereon, to be detailed the sassignment and transfer not be detailed.	VE PROPERTIII principal office a d invention and a and to any and ovement is mad ny of its existing thereof, of the la y Models, or Inventions to ve een or may reissue, or othe oe held and enjoyen made;	wledged, I have agreed to assign and transfe ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or d all improvements in the said invention made de during, or within one year after the g 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 byed as fully and exclusively as they would outs, to execute and deliver without further
consideration any fur that may be deemed	rther applications, assignments, and delinecessary by said Company, its succ	locuments, and cessors, assigns	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 a
	the said applications, to said 3M Innov		any and all Letters Patent which may be es Company, as the assignee of the entire rigl
Legal Name of Inv	/entor:		1
John M. Riede			
Inventor's Signatu	re:	Date:	
Odna J-	al al	1/2	1/20

Inventor's Signature:

Case No:

81014US

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:

ORTHODONTIC ARTICLES PREPARED USING A POLYCARBONATE DIOL, AND METHODS OF MAKING SAME The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/US2019/033252 filed on May 21, 2019 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: Richard J. Pokorny

Date:

1/6/20

Case No:

81014US

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:

ORTHOD	ONTIC ARTICLES PREPARED METHODS OF		•
The specification of v	which:		
is attached he	reto;		
was filed on as United Stat	es Application No.		
☑ is identified as filed on	PCT International Application No. May 21, 2019		PCT/US2019/033252
The above-identified	application was made or authorized to	be made by me.	
	e that any willful false statement made of not more than 5 years, or both.	in this declaration	n is punishable under 18 U.S.C. 1001 by
and do hereby assig 3M COMPANY, and assigns, the entire ricontinuation (in whole by me or made joint) termination of, my er all Letters Patent, rethereto (including the own name and to clainternational conventionation (in who part upon the said in have been by me ha	n and transfer unto the 3M INNOVATIV a corporation of Delaware, having its p ght, title, and interest in and to the said le or in part) of said application, and in a y with others (provided any such impromptoyment with 3M COMPANY and any examinations, reissues, or extensions to right to apply for Letters Patent, Utility aim any priority rights for such foreign a tions, treaties, or otherwise), which have le or in part), renewal, reexamination, revention or improvements thereon, to be ad this assignment and transfer not been	TE PROPERTIES rincipal office at S invention and apparent is made of the Uniter of the	improvements in the said invention made luring, or within one year after the future subsidiaries), and in and to any and ted States of America and countries foreign itors' Certificates in foreign countries in its ch such applications are entitled under granted thereon or on any divisional, r further application based in whole or in d as fully and exclusively as they would
consideration any futhat may be deemed	I necessary by said Company, its succe	cuments, and to essors, assigns, a	to execute and deliver without further perform such other acts as I lawfully may, nd nominees, fully to secure its right, title, lels, or Inventors' Certificates in any and all
I do hereby authoriz granted upon any of title, and interest the		ents to issue any alive Properties C	and all Letters Patent which may be Company, as the assignee of the entire right
Legal Name of In	ventor:		
Chad M. Amb			
Inventor's Signatu	ire:	Date:	
	<u> </u>	1-7	7-22

Case No:

81014US

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:

ORTHODO	NTIC ARTICLES PREPARED USING METHODS OF MAKIN		
The specification of whi	ich:		
is attached heret	o;		
was filed on as United States	Application No.		
is identified as Po	CT International Application No. May 21, 2019		PCT/US2019/033252
The above-identified ap	oplication was made or authorized to be made	by me	e.
I hereby acknowledge t fine or imprisonment of	that any willful false statement made in this de not more than 5 years, or both.	clarati	ion is punishable under 18 U.S.C. 1001 by
and do hereby assign a 3M COMPANY, and a cassigns, the entire right continuation (in whole oby me or made jointly watermination of, my emplall Letters Patent, reexathereto (including the rigown name and to claim international conventior continuation (in whole opart upon the said inverhave been by me had the	d valuable consideration, receipt of which is a and transfer unto the 3M INNOVATIVE PROP corporation of Delaware, having its principal of the 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 loyment with 3M COMPANY and any of its examinations, reissues, or extensions thereof, or ght to apply for Letters Patent, Utility Models, any priority rights for such foreign application as, treaties, or otherwise), which have been our in part), renewal, reexamination, reissue, on tion or improvements thereon, to be held an this assignment and transfer not been made;	ERTIE ffice a a and a y and a made isting f the U or Inversity r may r other d enjoy	ES COMPANY, a wholly-owned subsidiary of a Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made a during, or within one year after the or future subsidiaries), and in and to any and Inited States of America and countries foreign entors' Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, for further application based in whole or in yed as fully and exclusively as they would
consideration any further that may be deemed ne	yself and for my heirs, executors, and admini er applications, assignments, and documents ecessary by said Company, its successors, as id and to obtain or maintain Letters Patent, U	and to	o perform such other acts as I lawfully may, and nominees, fully to secure its right, title.
I do hereby authorize a granted upon any of the title, and interest thereir	nd request the Commissioner of Patents to is e said applications, to said 3M Innovative Pro n.	sue ar perties	ny and all Letters Patent which may be Company, as the assignee of the entire right
Legal Name of Inven	tor:		7
Benjamin R. Coo			
Inventor's Signature:			

PATENT REEL: 053902 FRAME: 0573

1/16/2020

Case No:

81014US

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:

ORTHODONTIC ARTICLES PREPARED USING A POLYCARBONATE DIOL, AND METHODS OF MAKING SAME The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. filed on May 21, 2019 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:	
Robert S. Clough	
Inventor's Signature:	Date:
Nobert D. Clough	2-10-2020

Case No:

81014US

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.

ORTHODONTIC ARTICLES PREPARED USING A POLYCARBONATE DIOL, AND METHODS OF MAKING SAME The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/US2019/033252 filed on May 21, 2019 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: Tianyu Wu Inventor's Signature: Date: 06/30/2020

Case No:

81014US

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:

}) FREFARED USII IETHODS OF MAK	ING SAME
The specification of which:		
is attached hereto;		
was filed on as United States Application No.		
is identified as PCT International Application filed on May 21, 2019	plication No.	PCT/US2019/033252
The above-identified application was made	or authorized to be m	ade by me.
I hereby acknowledge that any willful false fine or imprisonment of not more than 5 year.	statement made in this ars, or both.	declaration is punishable under 18 U.S.C. 1001 by
3M COMPANY, and a corporation of Delaw assigns, the entire right, title, and interest in continuation (in whole or in part) of said apply me or made jointly with others (provided termination of, my employment with 3M CC all Letters Patent, reexaminations, reissues thereto (including the right to apply for Letter own name and to claim any priority rights for international conventions, treaties, or other continuation (in whole or in part), renewal,	ware, having its princip, n and to the said inven plication, and in and to I any such improvement DMPANY and any of its s, or extensions therecors Patent, Utility Mode or such foreign applica wise), which have bee reexamination, reissue its thereon, to be held	OPERTIES COMPANY, a wholly-owned subsidiary of all office at Saint Paul, Minnesota, its successors and tion and application, and in and to any division or any and all improvements in the said invention made at is made during, or within one year after the existing or future subsidiaries), and in and to any and for the United States of America and countries foreign its, or Inventors' Certificates in foreign countries in its tions to which such applications are entitled under nor may be granted thereon or on any divisional, or other or further application based in whole or in and enjoyed as fully and exclusively as they would e;
consideration any further applications, assi that may be deemed necessary by said Co	ignments, and docume impany, its successors	ninistrators, to execute and deliver without further nts, and to perform such other acts as I lawfully may, , assigns, and nominees, fully to secure its right, title, . Utility Models, or Inventors' Certificates in any and all
I do hereby authorize and request the Com granted upon any of the said applications, t title, and interest therein.	rmissioner of Patents to to said 3M Innovative f	o issue any and all Letters Patent which may be Properties Company, as the assignee of the entire righ
Legal Name of Inventor:		
Saswata Chakraborty		
Inventor's Signature:	Dat	8)
Saswa & Chancas Do	r By	>1/15/2020

Case No:

81014US

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:

•	DRTHODONTIC ARTICLES PREPAREI METHODS O	OUSING A POLYCARBONATE DIOL, AND MAKING SAME
The speci	ification of which:	
☐ is a	ittached hereto;	
	s filed on United States Application No.	
⊠ is id filed	dentified as PCT International Application No. d on May 21, 2019	PCT/US2019/033252
The above	e-identified application was made or authorized t	o be made by me.
I hereby a fine or imp	acknowledge that any willful false statement mad prisonment of not more than 5 years, or both.	e in this declaration is punishable under 18 U.S.C. 1001 by
assigns, the continuation of termination all Letters thereto (in own name internation continuation art upon	ANY, and a corporation of Delaware, having its he entire right, title, and interest in and to the sai on (in whole or in part) of said application, and in made jointly with others (provided any such impring in of, my employment with 3M COMPANY and aid Patent, reexaminations, reissues, or extensions is cluding the right to apply for Letters Patent, Utility and to claim any priority rights for such foreignal and conventions, treaties, or otherwise), which has on (in whole or in part), renewal, reexamination.	VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and d invention and application, and in and to any division or and to any and all improvements in the said invention made overment 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 be made;
that may b	iron any further applications, assignments, and d he deemed necessary by said Company, its succ st as aforesaid and to obtain or maintain Letters	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
gramed up	y authorize and request the Commissioner of Pa oon any of the said applications, to said 3M Inno nterest therein.	tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right.
Legal N	ame of Inventor:	
3	hang Lu	
5	's Signature:	Date:
***************************************		(/16/2000)

Case No:

81014US

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:

ORTHODO	NTIC ARTICLES PREPARED METHODS OF		OLYCARBONATE DIOL, AND AME
The specification of wh	ich:	••••••	
is attached heret	0;		
was filed on as United States	Application No.		
is identified as Pi filed on	CT International Application No. May 21, 2019		PCT/US2019/033252
The above-identified ap	plication was made or authorized to	be made by r	ne.
I hereby acknowledge t fine or imprisonment of	hat any willful false statement made not more than 5 years, or both.	e in this declara	ition is punishable under 18 U.S.C. 1001 by
and do hereby assign a 3M COMPANY, and a assigns, the entire right continuation (in whole of by me or made jointly was termination of, my emp all Letters Patent, reexist thereto (including the right own name and to claim international convention continuation (in whole of part upon the said inverties have been by me had to I do further agree for mate consideration any further that may be deemed not and interest as afores a countries; and	and transfer unto the 3M INNOVATI corporation of Delaware, having its at the and interest in and to the said or in part) of said application, and in the first part) of said application, and in the first provided any such improvement with 3M COMPANY and ar aminations, reissues, or extensions ght to apply for Letters Patent, Utilitianly priority rights for such foreign as treaties, or otherwise), which have in part), renewal, reexamination, intion or improvements thereon, to be his assignment and transfer not been yeelf and for my heirs, executors, a per applications, assignments, and discessary by said Company, its succident of the commissioner of Pand request the commissioner of Pand	VE PROPERTI principal office if invention and and to any an- evement is mad by of its existing thereof, of the y Models, or In applications to we been or may reissue, or othe e held and enjuly en made; and administrate ocuments, and essors, assign Patent, Utility f	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 gor 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, are or further application based in whole or in cyed as fully and exclusively as they would bors, to execute and deliver without further to perform such other acts as I lawfully may, as, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all any and all Letters Patent which may be as Company, as the assignee of the entire right
title, and interest therei	₹.		
Legal Name of Inver	tor:		
Benjamin C. Ma			***************************************
Inventor's Signature:	Ψ	Date:	
Barria	Ne May	1/2	0/26

Case No:

81014US

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:

ORTHODO	ONTIC ARTICLES PREPARED METHODS OF I	USING A POLYCARBONATE DIOL, AND MAKING SAME
The specification of w	hich:	
is attached here	eto;	
was filed on as United State	s Application No.	
is identified as I filed on	PCT International Application No. May 21, 2019	PCT/US2019/033252
The above-identified a	application was made or authorized to	be made by me.
	that any willful false statement made of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire rigicontinuation (in whole by me or made jointly termination of, my emall Letters Patent, ree; thereto (including the own name and to clair international convention continuation (in whole part upon the said inv	and transfer unto the 3M INNOVATIVE corporation of Delaware, having its protection, and interest in and to the said or in part) of said application, and in a with others (provided any such improve ployment with 3M COMPANY and any caminations, reissues, or extensions the right to apply for Letters Patent, Utility many priority rights for such foreign apons, treaties, or otherwise), which have or in part), renewal, reexamination, re	which is acknowledged, I have agreed to assign and transfer 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 wement is made during, or within one year after the of its 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 oplications to which such applications are entitled under to been or may be granted thereon or on any divisional, eissue, or other or further application based in whole or in held and enjoyed as fully and exclusively as they would in made;
consideration any furt that may be deemed i	her applications, assignments, and do necessary 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, ratent, Utility Models, or Inventors' Certificates in any and all
	ne 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 Inve	entor:	
lan Dailey		
Inventor's Signature	e:	Date:
		2-5-2020

Case No:

81014US

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:

ORTHODONTIC ARTICLES PREPARED USING A POLYCARBONATE DIOL. AND

METHODS OF MAKING SAME				
The specification of which:				
is attached hereto;				
was filed on as United States Application No.				
is identified as PCT International Application No. May 21, 2019	PCT/US2019/033252			
The above identified application was made or authorized to be m	ada hy ma			

he 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:	
David B. Olson	
Inventor's Signature:	Date: 1/21/20

PATENT REEL: 053902 FRAME: 0580

RECORDED: 09/28/2020