506000293 04/03/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6047003

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD E. RABY	10/30/2019
CHAODI LI	10/28/2019
FAY T. SALMON	10/29/2019

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:	16753446

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.

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

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

ATTORNEY DOCKET NUMBER: 79771US004	
NAME OF SUBMITTER:	REBECCA BODE
SIGNATURE:	/Rebecca Bode/
DATE SIGNED:	04/03/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 3

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PATENT 506000293 REEL: 052311 FRAME: 0199

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

Case No:

79771

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 PALATAL EXPANDER INCL	UDING SPLIT BEAMS
The specification of which:	-
is attached hereto;	
was filed on	
as United States Application No.	
is identified as PCT International Application No. filed on September 18, 2018	PCT/IB2018/057169
The above-identified application was made or authorized to be made by	me.
I hereby acknowledge that any willful false statement made in this declar fine or imprisonment of not more than 5 years, or both.	ation is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is acknowned and do hereby assign and transfer unto the 3M INNOVATIVE PROPERT 3M COMPANY, and a corporation of Delaware, having its principal office assigns, the entire right, title, and interest in and to the said invention and continuation (in whole or in part) of said application, and in and to any an by me or made jointly with others (provided any such improvement is matermination of, my employment with 3M COMPANY and any of its existin all Letters Patent, reexaminations, reissues, or extensions thereof, of the thereto (including the right to apply for Letters Patent, Utility Models, or Ir own name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or macontinuation (in whole or in part), renewal, reexamination, reissue, or oth part upon the said invention or improvements thereon, to be held and enjhave been by me had this assignment and transfer not been made;	TIES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and dapplication, and in and to any division or ad 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 United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under by be granted thereon or on any divisional, are or further application based in whole or in
I do further agree for myself and for my heirs, executors, and administrat consideration any further applications, assignments, and documents, and that may be deemed necessary by said Company, its successors, assign and interest as aforesaid and to obtain or maintain Letters Patent, Utility countries; and	d to perform such other acts as I lawfully may, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to issue granted upon any of the said applications, to said 3M Innovative Propertititle, and interest therein.	
Legal Name of Inventor:	
Richard E. Raby	
Inventor's Signature: Date:	30/2019

PATENT REEL: 052311 FRAME: 0200

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

Case No:

79771

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 to: milion a patent to dought of the investion often	· · · · · · · · · · · · · · · · · · ·
ORTHODONTIC PALATAL EXPANDER	INCLUDING SPLIT BEAMS
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on September 18, 2018	PCT/IB2018/057169
The above-identified application was made or authorized to be ma	de by me.
I hereby acknowledge that any willful false statement made in this fine or imprisonment of not more than 5 years, or both.	declaration is punishable under 18 U.S.C. 1001 by
In addition, for good and valuable consideration, receipt of which is and do hereby assign and transfer unto the 3M INNOVATIVE PRO 3M COMPANY, and a corporation of Delaware, having its principa assigns, the entire right, title, and interest in and to the said invent continuation (in whole or in part) of said application, and in and to by me or made jointly with others (provided any such improvemen termination of, my employment with 3M COMPANY and any of its all Letters Patent, reexaminations, reissues, or extensions thereof, thereto (including the right to apply for Letters Patent, Utility Mode own name and to claim any priority rights for such foreign applicat international conventions, treaties, or otherwise), which have been continuation (in whole or in part), renewal, reexamination, reissue, part upon the said invention or improvements thereon, to be held a have been by me had this assignment and transfer not been made	PERTIES COMPANY, a wholly-owned subsidiary of I office at Saint Paul, Minnesota, its successors and ion and application, and in and to any division or any and all improvements in the said invention made t 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 is, or Inventors' Certificates in foreign countries in its ions to which such applications are entitled under or 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
I do further agree for myself and for my heirs, executors, and adm consideration any further applications, assignments, and documer that may be deemed necessary by said Company, its successors, and interest as aforesaid and to obtain or maintain Letters Patent, countries; and	nts, and to perform such other acts as I lawfully may, assigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to granted upon any of the said applications, to said 3M Innovative P title, and interest therein.	
Legal Name of Inventor:	
Chaodi Li	
Inventor's Signature: Date:	
Cand 5	10/28/2019

PATENT REEL: 052311 FRAME: 0201

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

Case No:

79771

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:

ORI	HODONTIC PALATAL EXPA	VDER INCLUDING SPLIT BEAMS
The specification of w	hich:	
is attached here	do;	
was filed on		
as United States	Application No.	
NZ is identified on D	CT International Application Ma	72.07.573.06.571.0.274.77
filed on	CT International Application No. September 18, 2018	PCT/IB2018/057169
hereby acknowledge	application was made or authorized to that any willful false statement made of not more than 5 years, or both.	be made by me. in this declaration is punishable under 18 U.S.C. 1001 by
and do hereby assign BM COMPANY, and a assigns, the entire rigontinuation (in whole by me or made jointly ermination of, my email Letters Patent, ree thereto (including the bwn name and to clain ternational conventicontinuation (in whole bart upon the said invave been by me had do further agree for consideration any furthat may be deemed	and transfer unto the 3M INNOVATIVE corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in with others (provided any such improplyment with 3M COMPANY and an xaminations, reissues, or extensions right to apply for Letters Patent, Utilitym any priority rights for such foreign a cons, treaties, or otherwise), which have or in part), renewal, reexamination, rention or improvements thereon, to be this assignment and transfer not been myself and for my heirs, executors, and denecessary by said Company, its successions.	which is acknowledged, I have agreed to assign and transfer I/E PROPERTIES COMPANY, a wholly-owned subsidiary of principal 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 evement is made during, or within one year after the y of its existing or future subsidiaries), and in and to any and thereof, of the United States of America and countries foreign and Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under a been or may be granted thereon or on any divisional, eissue, or other or further application based in whole or in the held and enjoyed as fully and exclusively as they would an made; and 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
	he said applications, to said 3M Innov	tents to issue any and all Letters Patent which may be rative Properties Company, as the assignee of the entire right
Legal Name of Inver	ntor:	
Fay T. Salmon		***************************************
Inventor's Signature		Date:

PATENT REEL: 052311 FRAME: 0202

10/29/2019

RECORDED: 04/03/2020