506048558 05/07/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6095272

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHRISTOPH THALACKER	06/06/2019
ADRIAN ECKERT	06/05/2019
HENRY LOLL	06/06/2019
KARSTEN DEDE	06/06/2019

RECEIVING PARTY DATA

Name:	3M INNOVATIVE PROPERTIES COMPANY
Street Address:	3M CENTER - P.O. BOX 33427
City:	ST. PAUL
State/Country:	MINNESOTA
Postal Code:	55133-3427

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16762172

CORRESPONDENCE DATA

Fax Number:

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: cberling@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: 80046US004	
NAME OF SUBMITTER:	CANDACE K. BERLING
SIGNATURE: /Candace K. Berling/	
DATE SIGNED:	05/07/2020

Total Attachments: 4

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PATENT 506048558 REEL: 052596 FRAME: 0080

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PATENT REEL: 052596 FRAME: 0081

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

Case No:

80046WO003

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:

	RADIOPAQUE DEN	ITAL COMPOSITION
The specification of wh	·	
is attached here		
☐ was filed on		
	Application No.	
✓ in identified as F	OCT International Application No.	ID2010/050674
filed on	PCT International Application No. November 5, 2018	IB2018/058674
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
and do hereby assign 3M COMPANY, and a assigns, the entire right continuation (in whole by me or made jointly termination of, my empall Letters Patent, reexthereto (including the rown name and to clair international convention continuation (in whole part upon the said inveloce that the continuation is the continuation of the said inveloce that the continuation is the continuation of the said inveloce that the continuation is the continuation of the continuation	and transfer unto the 3M INNOVATIV corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvation and the said application, and in a with others (provided any such improvation and the said application, and in a with others (provided any such improvations, reissues, or extensions the sight to apply for Letters Patent, Utility in any priority rights for such foreign are signs, treaties, or otherwise), which have or in part), renewal, reexamination, resention or improvements thereon, to be this assignment and transfer not been	
consideration any furth that may be deemed n	ner applications, assignments, and do ecessary by said Company, its succe	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
	e said applications, to said 3M Innova	tents to issue any and all Letters Patent which may be rative Properties Company, as the assignee of the entire right
Legal Name of Inve	ntor:	
Christoph Thala		
Inventor's Signature):	Date:
Mx 23 180. 1	T. Ne. U.s	June 6, 2019

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

Case No:

80046WO003

	rentor, I believe I am an original inve ich a patent is sought on the invention		al joint inventor of a claimed invention in the
	RADIOPAQUE DEN	ITAL COMPOS	SITION
The specification of w	hich:		
is attached heret	o;		
☐ was filed on as United States	Application No.		
is identified as Po	CT International Application No. November 5, 2018		IB2018/058674
The above-identified a	application was made or authorized to	o be made by me	·,
	that any wiliful false statement made of not more than 5 years, or both.	e in this declaration	on is punishable under 18 U.S.C. 1001 by
and do hereby assign 3M COMPANY, and a assigns, the entire rigit continuation (in whole by me or made jointly termination of, my email Letters Patent, resithereto (including the own name and to clair international convention continuation (in whole part upon the said inverse.)	and transfer unto the 3M INNOVATI corporation of Delaware, having its ht, title, and interest in and to the said or in part) of said application, and in with others (provided any such improployment with 3M COMPANY and arxaminations, reissues, or extensions right to apply for Letters Patent, Utility and priority rights for such foreign any priority rights for such foreign and for in part), renewal, reexamination.	IVE PROPERTIES principal office at d invention and as and to any and a overnent is made by of its existing of the Urity Models, or Investigations to write been or may be held and enjoyed.	edged, I have agreed to assign and transfer S COMPANY, a wholly-owned subsidiary of Saint Paul, Minnesota, its successors and oplication, and in and to any division or all improvements in the said invention made during, or within one year after the or future subsidiaries), and in and to any and nited States of America and countries foreign ntors' Certificates in foreign countries in its such applications are entitled under the granted thereon or on any divisional, or further application based in whole or in ed as fully and exclusively as they would
consideration any furt that may be deemed in	her applications, assignments, and d necessary by said Company, its succ	locuments, and to sessors, assigns,	, to execute and deliver without further perform such other acts as I lawfully may, and nominees, fully to secure its right, title, dels, or Inventors' Certificates in any and all
I do hereby authorize granted upon any of the title, and interest there	he said applications, to said 3M Inno	atents to issue any vative Properties	y and all Letters Patent which may be Company, as the assignee of the entire righ
Legal Name of Inven	officer:	***************************************	
Adrian Eckert			
Inventor's Signature	a Equi	Date: 06/0≤	72019

PATENT REEL: 052596 FRAME: 0083

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

Case No:

80046WO003

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 wi	nich a patent is sought on the invention	on entitled:			
	RADIOPAQUE DEN	TAL COMP	OSITION		
The specification of w	vhich:				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
is attached here	to;				
was filed on as United States	Application No.				
is identified as F	PCT International Application No. November 5, 2018		IB2018/0586	74	
The above-identified	application was made or authorized t	o be made by	me.		
In addition, for good a and do hereby assign 3M COMPANY, and a assigns, the entire rig continuation (in whole by me or made jointly termination of, my em all Letters Patent, ree thereto (including the own name and to claim international conventicontinuation (in whole part upon the said invented and the said invented invented in the said invented and	e that any willful false statement made of not more than 5 years, or both. and valuable consideration, receipt of a and transfer unto the 3M INNOVATI a corporation of Delaware, having its pht, title, and interest in and to the said or in part) of said application, and in with others (provided any such impropolyment with 3M COMPANY and an examinations, reissues, or extensions right to apply for Letters Patent, Utilities any priority rights for such foreign and priority rights for such foreign and priority rights for such foreign and part), renewal, reexamination, vention or improvements thereon, to be at this assignment and transfer not be at this assignment and transfer not be	which is ackn VE PROPERI principal office d invention and and to any are evement is many of its existin thereof, of the y Models, or I applications to ve been or ma reissue, or othe held and en	nowledged, I have ITES COMPANY at Saint Paul, I deplication, and all improvemented during, or wing or future subset United States on the nor or further appart or further appart or further appart of the control of the	ve agreed to assign and tra f, a wholly-owned subsidia Minnesota, its successors and in and to any division or ents in the said invention rather ithin one year after the sidiaries), and in and to an of America and countries in cates in foreign countries in colications are entitled under ereon or on any divisional plication based in whole or	ansfer and and nade y and oreign n its er
consideration any fun that may be deemed	myself and for my heirs, executors, a ther applications, assignments, and d necessary by said Company, its succ said and to obtain or maintain Letters	ocuments, an essors, assign	d to perform suc ns, and nominee	ch other acts as I lawfully res, fully to secure its right,	nay, title,
	and request the Commissioner of Pa the said applications, to said 3M Inno ein.				∍ right
Legal Name of Inve	ntor:				
Henry Loll					***************************************
Inventor's Signature		Date:		rus,	_
	<u>) </u>	174	m 6,	2019	

PATENT REEL: 052596 FRAME: 0084

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

Case No:

80046WO003

À a

	below named inventor, I believe I am an original inventor cation and for which a patent is sought on the invention of	tor or an original joint inventor of a claimed invention in the entitled:		
	RADIOPAQUE DENTAL COMPOSITION			
The	specification of which:	•		
	is attached hereto;			
	was filed on as United States Application No.			
Ø	is identified as PCT International Application No. filed on November 5, 2018	IB2018/058674		
The	above-identified application was made or authorized to b	be made by me.		
	eby acknowledge that any willful false statement made in or imprisonment of not more than 5 years, or both.	in this declaration is punishable under 18 U.S.C. 1001 by		
and 3M	do hereby assign and transfer unto the 3M INNOVATIVE	which is acknowledged, I have agreed to assign and transfe 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		

In a 3 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:	
Karsten Dede	
Inventor's Signature:	Date: (%//06//2019)

PATENT REEL: 052596 FRAME: 0085

RECORDED: 05/07/2020