507102387 01/31/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7149225

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY L. SOLOMON	04/09/2021
HENRIK B. VAN LENGERICH	04/19/2021
BRYAN V. HUNT	04/09/2021
TABITHA A. SILLIMAN	04/09/2021
WILLIAM BLAKE KOLB	04/19/2021
NICHOLAS C. ERICKSON	04/09/2021
STEPHEN M. MENKE	04/09/2021
DEREK W. PATZMAN	04/12/2021
JUSTIN P. MEYER	05/12/2021
BERT T. CHIEN	04/12/2021
THOMAS E. MUEHLE	04/19/2021
THOMAS P. KLUN	04/09/2021

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:	17631522

CORRESPONDENCE DATA

(651)736-3833 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: 6517331500

Email: cmwagner01@mmm.com

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

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

PATENT

REEL: 058824 FRAME: 0575 507102387

ATTORNEY DOCKET NUMBER:	81875US009	
NAME OF SUBMITTER:	COLLEEN M. WAGNER	
SIGNATURE:	/Colleen M. Wagner/	
DATE SIGNED:	01/31/2022	
This document serves as an Oath/Declaration (37 CFR 1.63).		

Total Attachments: 12

source=DeclarationAssignment_81875US009#page1.tif source=DeclarationAssignment_81875US009#page2.tif source=DeclarationAssignment_81875US009#page3.tif source=DeclarationAssignment_81875US009#page4.tif source=DeclarationAssignment_81875US009#page5.tif source=DeclarationAssignment_81875US009#page6.tif source=DeclarationAssignment_81875US009#page7.tif source=DeclarationAssignment_81875US009#page8.tif source=DeclarationAssignment_81875US009#page9.tif source=DeclarationAssignment_81875US009#page10.tif source=DeclarationAssignment_81875US009#page11.tif source=DeclarationAssignment_81875US009#page11.tif source=DeclarationAssignment_81875US009#page12.tif

DocuSigned by:

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

Case No:

81875US

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:

Articles Inc		s and Enclos Same	ed Voids, and Methods of Making
The specification	of which:		
is attached	hereto;		
was filed on as United S	n States Application No.		
_	I as PCT International Application No. September 16, 2020		PCT/IB2020/058611
The above-identif	fied application was made or authorized	to be made by m	e.
	edge that any willful false statement madent of not more than 5 years, or both.	de in this declara	ion is punishable under 18 U.S.C. 1001 by
and do hereby as 3M COMPANY, a assigns, the entire continuation (in we by me or made joutermination of, my all Letters Patent, thereto (including own name and to international continuation (in we part upon the said have been by me I do further agree consideration any that may be deen and interest as af countries; and	sign and transfer unto the 3M INNOVAT and a corporation of Delaware, having its e right, title, and interest in and to the say hole or in part) of said application, and interest in and to the say hole or in part) of said application, and interest in and to the say make the provided any such imply employment with 3M COMPANY and a reexaminations, reissues, or extension the right to apply for Letters Patent, Utical claim any priority rights for such foreign ventions, treaties, or otherwise), which had hole or in part), renewal, reexamination of invention or improvements thereon, to the had this assignment and transfer not be a for myself and for my heirs, executors, or further applications, assignments, and ned necessary by said Company, its such foresaid and to obtain or maintain Lettered or its early applications, to said 3M Innovation of the said applications, to said 3M Innovations.	FIVE PROPERTIES or principal office a said invention and in and to any and in and to any and provement is made any of its existing a thereof, of the Unity Models, or Inventional applications to vave been or may, reissue, or other be held and enjoyeen made; and administrator documents, and excessors, assigns as Patent, Utility Models.	or future subsidiaries), and in and to any and United States of America and countries foreign rentors' Certificates in foreign countries in its which such applications are entitled under be granted thereon or on any divisional, or further application based in whole or in yed as fully and exclusively as they would res, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, lodels, or Inventors' Certificates in any and all
Legal Name of			
Jeffrey L. S			
Inventor's Sign	nature:	Date:	

PATENT REEL: 058824 FRAME: 0577

4/9/2021

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

Case No:

81875US

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:

Articles Including Nanostructured Surfaces and Enclosed Voids, 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	PCT/IB2020/058611	

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:		
Henrik B. van Lengerich		
Inventor's Signature:	Date:	
DocuSigned by:	4/19/2021	
Henrik Bernhard van Lengerich		

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

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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:	
Bryan V. Hunt	
Inventor's Signature:	Date:
C993B50337F54CF	4/9/2021

Tabitha a. Silliman

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

Case No:

81875US

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al al control of the	addition, for good and valuable consideration, receipt of wind do hereby assign and transfer unto the 3M INNOVATIVE M COMPANY, and a corporation of Delaware, having its prissigns, the entire right, title, and interest in and to the said is ontinuation (in whole or in part) of said application, and in any me or made jointly with others (provided any such improvermination of, my employment with 3M COMPANY and any II Letters Patent, reexaminations, reissues, or extensions the letters (including the right to apply for Letters Patent, Utility I wanname and to claim any priority rights for such foreign apply ternational conventions, treaties, or otherwise), which have continuation (in whole or in part), renewal, reexamination, related upon the said invention or improvements thereon, to be ave been by me had this assignment and transfer not been do further agree for myself and for my heirs, executors, and consideration any further applications, assignments, and do not may be deemed necessary by said Company, its success and interest as aforesaid and to obtain or maintain Letters Patentries; and	E PROPERTIE incipal office at nvention and a nd to any and a ement is made of its existing of the U Models, or Investigations to whe been or may be been or may be issue, or other held and enjoy made; d administrators cuments, and to ssors, assigns,	S COMPANY, a wholly-owned subsidiary of Saint Paul, Minnesota, its successors and pplication, 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 entors' Certificates in foreign countries in its hich such applications are entitled under be granted thereon or on any divisional, or further application based in whole or in red as fully and exclusively as they would so, to execute and deliver without further to perform such other acts as I lawfully may, and nominees, fully to secure its right, title,
g	do hereby authorize and request the Commissioner of Pate ranted upon any of the said applications, to said 3M Innovarile, and interest therein.		
ſ	Legal Name of Inventor:		
	Tabitha A. Silliman		
	Inventor's Signature:	Date:	
	DocuSigned by:		4/9/2021

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

Case No:

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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:	
William Blake Kolb	
Inventor's Signature:	Date:
William Blake kolb	4/19/2021
0E8A93F351D64E8	

Mcholas C. Erickson

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

Case No:

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and do hereby assign and transfer unto the 3M INNOVAT BM COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the sale continuation (in whole or in part) of said application, and in by me or made jointly with others (provided any such impresemination of, my employment with 3M COMPANY and a call Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Utilization name and to claim any priority rights for such foreign international conventions, treaties, or otherwise), which has continuation (in whole or in part), renewal, reexamination, part upon the said invention or improvements thereon, to have been by me had this assignment and transfer not be do further agree for myself and for my heirs, executors, a consideration any further applications, assignments, and chat may be deemed necessary by said Company, its such	n and to any and all improvements in the said invention made rovement is made during, or within one year after the ny of its existing or future subsidiaries), and in and to any and a thereof, of the United States of America and countries foreign ty Models, or Inventors' Certificates in foreign countries in its applications to which such applications are entitled under ave been or may be granted thereon or on any divisional, reissue, or other or further application based in whole or in be held and enjoyed as fully and exclusively as they would ten made;
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Legal Name of Inventor:	
Nicholas C. Erickson	
Inventor's Signature:	Date:
DocuSigned by:	4/9/2021

Legal Name of Inventor: **Stephen M. Menke** Inventor's Signature:

-- DocuSigned by:

~0E3BF469B0B44B9...

Stephen M. Menke

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

Case No:

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was filed on		
as United States A	Application No.	
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filed on	September 16, 2020	
The above-identified app	olication was made or authorized to be made by	me.
In addition, for good and and do hereby assign ar 3M COMPANY, and a crassigns, the entire right, continuation (in whole or by me or made jointly witermination of, my emploall Letters Patent, reexait thereto (including the rigown name and to claim a international conventions continuation (in whole or part upon the said inventiave been by me had the I do further agree for my consideration any furthe that may be deemed near and interest as aforesaic countries; and	and transfer unto the 3M INNOVATIVE PROPERT orporation of Delaware, having its principal office title, and interest in and to the said invention and in part) of said application, and in and to any auth others (provided any such improvement is made or with 3M COMPANY and any of its existing minations, reissues, or extensions thereof, of the ht to apply for Letters Patent, Utility Models, or leany priority rights for such foreign applications to so, treaties, or otherwise), which have been or made in part), renewal, reexamination, reissue, or otherwise is assignment and transfer not been made; self and for my heirs, executors, and administrated rapplications, assignments, and documents, and cessary by said Company, its successors, assigned and to obtain or maintain Letters Patent, Utility and request the Commissioner of Patents to issue said applications, to said 3M Innovative Propert	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and d application, and in and to any division or and 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 e United States of America and countries foreign any enters' Certificates in foreign countries in its owhich such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in any owner as fully and exclusively as they would tors, to execute and deliver without further d to perform such other acts as I lawfully may, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all

Date:

PATENT REEL: 058824 FRAME: 0583

4/9/2021

Derek W. Patzman --- D34CD8C7B11F4CO...

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

Case No:

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Legal Name of Inventor:		
Derek W. Patzman		
Inventor's Signature:	Date:	
DocuSigned by:	4/12/2021	

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Legal Name of Inventor:

Justin P. Meyer

Inventor's Signature:

Docusigned by:

Justin P. Meyer

DB895D4336B140C...

DB895D4336B140C...

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,

Legal Name of Inventor:

Bert T. Chien
Inventor's Signature:

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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. In addition, for good and valuable consideration, receipt of which is acknown 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 and 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 Inform name and to claim any priority rights for such foreign applications to international conventions, treaties, or otherwise), which have been or maternation (in whole or in part), renewal, reexamination, reissue, or oth part upon the said invention or improvements thereon, to be held and enhave been by me had this assignment and transfer not been made;	owledged, I have agreed to assign and transfer TES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and d application, and in and to any division or ad all improvements in the said invention made ade during, or within one year after the g or future subsidiaries), and in and to any and a United States of America and countries foreign eventors' Certificates in foreign countries in its which such applications are entitled under my be granted thereon or on any divisional, er 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 Properti title, and interest therein.	

Date:

PATENT REEL: 058824 FRAME: 0586

4/12/2021

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

Case No:

81875US

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:

ſ	Artialaa laaludia	w Non-cotyriotized Crystopes	and Englas	ad Vaida and Mathada of Making
	Articles including	g Nanostructured Surfaces a Sar		ed Voids, and Methods of Making
T	he specification of whic	ch:		
	is attached hereto	•		
	was filed on as United States A	Application No.		
	is identified as PC filed on	T International Application No. September 16, 2020		PCT/IB2020/058611
Т	he above-identified app	olication was made or authorized to b	oe made by m	e.
		at any willful false statement made i not more than 5 years, or both.	n this declarat	ion is punishable under 18 U.S.C. 1001 by
ai 3i a: b: te ai th or h:	nd do hereby assign ar M COMPANY, and a consistency and a consistency made jointly with a continuation of, my employ and the received in the continuation of, and the right and the continuation (in whole of art upon the said inventage and the continuation (in whole of art upon the said inventage and the continuation (in whole of art upon the said inventage been by me had the said inventage are made and the continuation (in whole of art upon the said inventage are said inventage and the continuation (in whole of art upon the said inventage are said inventage and the continuation (in whole of art upon the said inventage).	nd transfer unto the 3M INNOVATIVE orporation of Delaware, having its pretitle, and interest in and to the said in part) of said application, and in a th others (provided any such improveyment with 3M COMPANY and any minations, reissues, or extensions that to apply for Letters Patent, Utility any priority rights for such foreign appears, treaties, or otherwise), which have in part), renewal, reexamination, reition or improvements thereon, to be is assignment and transfer not been	E PROPERTIE incipal office a nvention and a nvention and a nd to any and ement is made of its existing ereof, of the U Models, or Invelications to we been or may issue, or other held and enjoy made;	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, or further application based in whole or in yed as fully and exclusively as they would
co th	onsideration any furthe nat may be deemed neo	r applications, assignments, and doc cessary 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
gı		said applications, to said 3M Innova		ny and all Letters Patent which may be s Company, as the assignee of the entire right
ı				
	Legal Name of Invent Thomas E. Mueh			
	Inventor's Signature:	· · · · · · · · · · · · · · · · · · ·	Date:	
	DocuSigned by:	7 /		4/19/2021
- 1	1 1 1X///	71	i .	

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

Case No:

81875US

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:

Articles Including Nanostructured Surfaces and Enclosed Voids, 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 September 16, 2020	PCT/IB2020/058611
The above-identified application was made or authorized to be made by n	ne.
hereby acknowledge that any willful false statement made in this declaratine 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 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:	
Thomas P. Klun	
Inventor's Signature:	Date:
DocuSigned by:	4/9/2021
thomas P. Elun	
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PATENT REEL: 058824 FRAME: 0588

RECORDED: 01/31/2022