PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6613741

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL J. BULINSKI	04/15/2020
WILLIAM M. LAMANNA	03/20/2020
FORREST A. COUGHLIN	03/23/2020
HUI REN	04/15/2020
NICHOLAS A. TOSO	04/30/2020

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:	17278418

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.

Phone: 651-733-1500

Email: kelfstrom@mmm.com

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

Address Line 1: P.O. BOX 33427

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

Total Attackments. F	·
	This document serves as an Oath/Declaration (37 CFR 1.63).
DATE SIGNED:	03/22/2021
SIGNATURE:	/Kim Elfstrom/
NAME OF SUBMITTER:	KIM ELFSTROM
ATTORNEY DOCKET NUMBER:	80775US007

Total Attachments: 5

PATENT REEL: 055668 FRAME: 0440

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PATENT REEL: 055668 FRAME: 0441

Case No:

80775US

As a below	named	inventor, I	believe l	am an	original	inventor	or an	original	joint	inventor	of a	claimed	invention	in the
application a	and for	which a pa	itent is so	ought or	the inv	ention er	ititled:							

Hydrofluoroethers and Methods of Using 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 23, 2019	PCT/IB2019/058037				

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:	
Michael J. Bulinski	
Inventor's Signature:	Date:
M Bulinski	4/15/2020

Case No:

80775US

	I believe I am an original inventor or an originatent is sought on the invention entitled:	nal joint inventor of a claimed invention in the
A 100 100 100 100 100 100 100 100 100 10	Hydrofluoroethers and Methods of	Using Same
The specification of which:		
is attached hereto;		
was filed on as United States Appli	ication No.	
	ternational Application No. ptember 23, 2019	PCT/IB2019/058037
The above-identified applica	tion was made or authorized to be made by m	e.
I hereby acknowledge that a fine or imprisonment of not n	ny willful false statement made in this declarat nore than 5 years, or both.	ion is punishable under 18 U.S.C. 1001 by
and do hereby assign and tra 3M COMPANY, and a corpo assigns, the entire right, title continuation (in whole or in p by me or made jointly with of termination of, my employme all Letters Patent, reexamina thereto (including the right to own name and to claim any international conventions, tra continuation (in whole or in p part upon the said invention	uable consideration, receipt of which is acknown ansfer unto the 3M INNOVATIVE PROPERTIES aration of Delaware, having its principal office as and interest in and to the said invention and coart) of said application, and in and to any and thers (provided any such improvement is made ent with 3M COMPANY and any of its existing ations, reissues, or extensions thereof, of the Loapply for Letters Patent, Utility Models, or Inversity rights for such foreign applications to we eaties, or otherwise), which have been or may part), renewal, reexamination, reissue, or other or improvements thereon, to be held and enjous signment and transfer not been made;	ES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or all improvements in the said invention made e during, or within one year after the 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 or further application based in whole or in

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 M. Lamanna	
Inventor's Signature: Amamam	Date: 3/20/2020

Case No:

80775US

As a below named inver application and for which	ntor, I believe I am an original inventa a a patent is sought on the inventio	ntor or an original joint inventor of a claimed invention in the neutitled:
	Hydrofluoroethers and	Methods of Using Same
The specification of which	h:	
is attached hereto	. ,	
was filed on		
as United States /	Application No.	
is identified as PC filed on	T International Application No. September 23, 2019	PCT/IB2019/058037
The above-identified app	olication was made or authorized to	be made by me.
In addition, for good and and do hereby assign at 3M COMPANY, and a cassigns, the entire right, continuation (in whole o by me or made jointly w termination of, my empleall Letters Patent, reexathereto (including the rigown name and to claim international convention continuation (in whole o part upon the said inverhave been by me had the	I valuable consideration, receipt of and transfer unto the 3M INNOVATI orporation of Delaware, having its stitle, and interest in and to the safe in part) of said application, and in ith others (provided any such improprent with 3M COMPANY and arminations, reissues, or extensions to apply for Letters Patent, Utility any priority rights for such foreign as, treaties, or otherwise), which have in part), renewal, reexamination, atton or improvements thereon, to be assignment and transfer not been	which is acknowledged, I have agreed to assign and transfer VE PROPERTIES COMPANY, a wholly-owned subsidiary of principal office at Saint Paul, Minnesota, its successors and I invention and application, and in and to any division or and to any and all improvements in the said invention made overnent is made during, or within one year after the made over 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 an made;
consideration any further	er applications, assignments, and di cessary by said Company, its succ	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
I do hereby authorize as granted upon any of the title, and interest thereir	i said applications, to said bly innov	tents to issue any and all Letters Patent which may be vative Properties Company, as the assignee of the entire right,
Legal Name of Invent	Of:	
Forrest A. Coug	hlin	
Inventor's Signature:	. / .	Oate:
Suffer	Caldin	3/23/2020

PATENT REEL: 055668 FRAME: 0444

Case No:

80775US

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:

Hydrofluoroethers and Methods of Using 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 23, 2019	PCT/IB2019/058037			

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:	
Hui Ren	
Inventor's Signature:	Date:
/Hui Ren/	04/15/2020

Case No:

80775US

As a below named inventor. I believe I am an original inventor or an original joint inventor of a claimed invention in the

Hydrofluoroethers and Methods of Using 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 23, 2019	PCT/IB2019/058037	
The above-identified application was made or authorized to be made by	me.	
hereby acknowledge that any willful false statement made in this decla ine or imprisonment of not more than 5 years, or both.	aration 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:	
Nicholas A. Toso	
Inventor's Signature:	Date:
Holan Ein a	04/30/2020

PATENT REEL: 055668 FRAME: 0446

RECORDED: 03/22/2021