506410333 12/17/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6457090

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREW J. L. STEINBACH	11/04/2019
ANDREW T. HAUG	12/02/2019
KRZYSZTOF A. LEWINSKI	02/13/2020
AMY E. HESTER	11/01/2019
GRANT M. THOMA	10/30/2019
CEDRIC BEDOYA	10/29/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17047029

CORRESPONDENCE DATA

Fax Number: (612)305-1228

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: (612)767-2454

Email: rpagel@mrgiplaw.com

ANN MUETING, MUETING RAASCH GROUP **Correspondent Name:** 111 WASHINGTON AVENUE S., SUITE 700 Address Line 1:

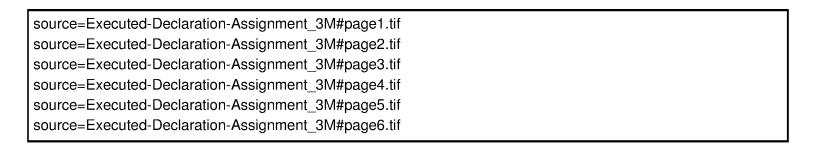
Address Line 4: MINNEAPOLIS, MINNESOTA 55401

ATTORNEY DOCKET NUMBER:	80748US006
NAME OF SUBMITTER:	REBECCA J. PAGEL
SIGNATURE:	/Rebecca J. Pagel/
DATE SIGNED:	12/17/2020

Total Attachments: 6

PATENT REEL: 054686 FRAME: 0148

506410333



Case No:

80748

CATALYST	
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/IB2019/053001
The above-identified application was made or authorized to be made b	y me.
I hereby acknowledge that any willful false statement made in this deci- fine 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 act and do hereby assign and transfer unto the 3M INNOVATIVE PROPER 3M COMPANY, and a corporation of Delaware, having its principal officessigns, the entire right, title, and interest in and to the said invention a continuation (in whole or in part) of said application, and in and to any it by me or made jointly with others (provided any such improvement is not termination of, my employment with 3M COMPANY and any of its exist all Letters Patent, reexaminations, reissues, or extensions thereof, of the thereto (including the right to apply for Letters Patent, Utility Models, or own name and to claim any priority rights for such foreign applications international conventions, treaties, or otherwise), which have been or no continuation (in whole or in part), renewal, reexamination, reissue, or opart upon the said invention or improvements thereon, to be held and a have been by me had this assignment and transfer not been made;	RTIES COMPANY, a wholly-owned subsidiary of ce at Saint Paul, Minnesota, its successors and and application, and in and to any division or and all improvements in the said invention made hade during, or within one year after the ing or future subsidiaries), and in and to any and he United States of America and countries foreign Inventors' Certificates in foreign countries in its to which such applications are entitled under hay be granted thereon or on any divisional, ther or further application based in whole or in
I do further agree for myself and for my heirs, executors, and administr consideration any further applications, assignments, and documents, a that may be deemed necessary by said Company, its successors, assigned interest as aforesaid and to obtain or maintain Letters Patent, Utilificountries; and	nd to perform such other acts as I lawfully may, gns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to issugranted upon any of the said applications, to said 3M Innovative Propetitle, and interest therein.	
Legal Name of Inventor:	
Andrew J. L. Steinbach	
Inventor's Signature: Date:	

Case No:

80748

application and for which a patent	is sought on the invention entitled:	
	CATALYST	
The specification of which:		
is attached hereto;		
was filed on as United States Application	No.	
is identified as PCT Internation in idea on April 11,		PCT/IB2019/053001
The above-identified application w	vas made or authorized to be made by	me.
I hereby acknowledge that any will fine or imprisonment of not more t	llful false statement made in this decla han 5 years, or both.	ration is punishable under 18 U.S.C. 1001 by
and do hereby assign and transfe 3M COMPANY, and a corporation assigns, the entire right, title, and continuation (in whole or in part) oby me or made jointly with others termination of, my employment wi all Letters Patent, reexaminations thereto (including the right to apply own name and to claim any priorit international conventions, treaties continuation (in whole or in part), in	r unto the 3M INNOVATIVE PROPER of Delaware, having its principal officinterest in and to the said invention are said application, and in and to any a (provided any such improvement is most to 3M COMPANY and any of its existing, reissues, or extensions thereof, of the y for Letters Patent, Utility Models, or ly rights for such foreign applications to, or otherwise), which have been or more newal, reexamination, reissue, or otherwords thereon, to be held and er	nowledged, I have agreed to assign and transfer TIES COMPANY, a wholly-owned subsidiary of e at Saint Paul, Minnesota, its successors and ad application, and in and to any division or 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 Inventors' Certificates in foreign countries in its to which such applications are entitled under any be granted thereon or on any divisional, her or further application based in whole or in anjoyed as fully and exclusively as they would
consideration any further applicati that may be deemed necessary by	ons, assignments, and documents, an y said Company, its successors, assig	tors, to execute and deliver without further ad to perform such other acts as I lawfully may, ns, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all
I do hereby authorize and request granted upon any of the said appli title, and interest therein.	the Commissioner of Patents to issue cations, to said 3M Innovative Propert	e any and all Letters Patent which may be ties Company, as the assignee of the entire right

Legal Name of Inventor:

Andrew T. Haug

Inventor's Signature:

Date:

12/2/19

filed on

Case No:

80748

application and for which a patent is sought on the invention entitled:	
CATALYS	Т
The specification of which: ☐ is attached hereto;	
was filed on as United States Application No.	
⊠ is identified as PCT International Application No	PCT/IB2019/053001

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

The above-identified application was made or authorized to be made by me.

April 11, 2019

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:	
Krzysztof A. Lewinski	
Inventor's Signature:	Date: 02/13/2020

Inventor's Signature:

Case No:

80748

	CATALYS	T
The specification of wl	hich:	
is attached herete	o;	
was filed on as United States	Application No.	
is identified as P0 filed on	CT International Application No. April 11, 2019	PCT/IB2019/053001
The above-identified a	pplication was made or authorized to be m	ade by me.
In addition, for good at 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, reex thereto (including the rown name and to claim	of not more than 5 years, or both. Indivaluable consideration, receipt of which and transfer unto the 3M INNOVATIVE PR corporation of Delaware, having its principal, title, and interest in and to the said inversor in part) of said application, and in and to with others (provided any such improvement with 3M COMPANY and any of its caminations, reissues, or extensions thereoright to apply for Letters Patent, Utility Modin any priority rights for such foreign applications.	is acknowledged, I have agreed to assign and transfer COPERTIES COMPANY, a wholly-owned subsidiary of the said office at Saint Paul, Minnesota, its successors and altion and application, and in and to any division or or any and all improvements in the said invention made not it is made during, or within one year after the sexisting or future subsidiaries), and in and to any and off, of the United States of America and countries foreigneds, or Inventors' Certificates in foreign countries in its ations to which such applications are entitled under
continuation (in whole part upon the said inve	or in part), renewal, reexamination, reissue	en or may be granted thereon or on any divisional, e, or other or further application based in whole or in and enjoyed as fully and exclusively as they would de;
	nyself and for my heirs, executors, and adr	ninistrators, to execute and deliver without further
consideration any furth that may be deemed n	ner applications, assignments, and docume ecessary by said Company, its successors	ents, and to perform such other acts as I lawfully may, s, assigns, and nominees, fully to secure its right, title, c, Utility Models, or Inventors' Certificates in any and all

Date:

11/1/2019

Inventor's Signature:

Case No:

80748

CATALYST	
The specification of which:	
is attached hereto;	
was filed on as United States Application No.	
is identified as PCT International Application No. filed on April 11, 2019	PCT/IB2019/053001
The above-identified application was made or authorized to be made	e by me.
I hereby acknowledge that any willful false statement made in this d fine or imprisonment of not more than 5 years, or both.	eclaration 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 PROF 3M COMPANY, and a corporation of Delaware, having its principal assigns, the entire right, title, and interest in and to the said inventio continuation (in whole or in part) of said application, and in and to an by me or made jointly with others (provided any such improvement it termination of, my employment with 3M COMPANY and any of its exall Letters Patent, reexaminations, reissues, or extensions thereof, of thereto (including the right to apply for Letters Patent, Utility Models own name and to claim any priority rights for such foreign application international conventions, treaties, or otherwise), which have been continuation (in whole or in part), renewal, reexamination, reissue, or part upon the said invention or improvements thereon, to be held and have been by me had this assignment and transfer not been made;	PERTIES COMPANY, a wholly-owned subsidiary of office at Saint Paul, Minnesota, its successors and in and application, and in and to any division or my and all improvements in the said invention made 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, or Inventors' Certificates in foreign countries in its ins to which such applications are entitled under or may be granted thereon or on any divisional, in other or further application based in whole or in
I do further agree for myself and for my heirs, executors, and admin consideration any further applications, assignments, and documents that may be deemed necessary by said Company, its successors, a and interest as aforesaid and to obtain or maintain Letters Patent, U countries; and	s, and to perform such other acts as I lawfully may, ssigns, and nominees, fully to secure its right, title,
I do hereby authorize and request the Commissioner of Patents to is granted upon any of the said applications, to said 3M Innovative Protitle, and interest therein.	
Legal Name of Inventor: Grant M. Thoma	

Date:

10-30-19

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

Case No:

80748

	CATALYST			
The specification of	f which:			
is attached he	reto;			
was filed on as United States				
	es Application No.			
is identified as F filed on	PCT International Application No.	PCT/IB2019/053001		
	April 11, 2019			
The above-identified	d application was made or authorized to be	made by me.		
I hereby acknowled fine or imprisonmen	ge that any willful false statement made in int of not more than 5 years, or both.	this declaration is punishable under 18 U.S.C. 1001 by		
and do hereby assig 3M COMPANY, and assigns, the entire re continuation (in who	gn and transfer unto the 3M INNOVATIVE for a corporation of Delaware, having its principle, title, and interest in and to the said involve or in part) of said application, and in and	ch is acknowledged, I have agreed to assign and transfer PROPERTIES COMPANY, a wholly-owned subsidiary of cipal office at Saint Paul, Minnesota, its successors and rention and application, and in and to any division or I to any and all improvements in the said invention made nent is made during, or within one year after the I its existing or future subsidiaries), and in and to any and		

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:			
Cedric Bedoya			
Inventor's Signature:	Date: 10 29 2019		