# 506075277 05/26/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6121992

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| RUDOLF J. DAMS         | 07/17/2019     |
| RUDY W. VAN CAMPENHOUT | 07/22/2019     |
| MATTHIAS CONRADI       | 07/16/2019     |
| MARINE MOVSISYAN       | 07/18/2019     |
| CHRISTIAN STEVENS      | 09/12/2019     |

### 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: | 16766887 |

### **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:** 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

| ATTORNEY DOCKET NUMBER:                                    | 80014US004          |
|--|---------------------|
| NAME OF SUBMITTER: COLLEEN M. WAGNER                       |                     |
| SIGNATURE:   | /Colleen M. Wagner/ |
| <b>DATE SIGNED:</b> 05/26/2020                             |                     |
| This document serves as an Oath/Declaration (37 CFR 1.63). |                     |
| <u> </u>   |                     |

**Total Attachments: 5** 

PATENT REEL: 052749 FRAME: 0518

506075277

source=DeclarationAssignment\_80014US004#page1.tif source=DeclarationAssignment\_80014US004#page2.tif source=DeclarationAssignment\_80014US004#page3.tif source=DeclarationAssignment\_80014US004#page4.tif source=DeclarationAssignment\_80014US004#page5.tif

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

Case No:

80014US

| Danaga Sa  |   |   | and the Bode in a Flanc  | . Bandan   |
|--|---|---|--|--|
| Process 101  | r the Manufacturing of a 3-H  | aiopropioi  | iyi nalide ili a riow  | / Reactor  |
| The specification of whi   | ch:   |   |  |  |
| is attached hereto;  |   |   |  |  |
| was filed on   |   |   |  |  |
| as United States A   | pplication No.  | •   |  |  |
| ⊠ is identified as PC  | T International Application No.   |   | PCT/IB2018/059956  | <u></u>  |
| filed on   | December 12, 2018   |   |  |  |
| The above-identified ap  | plication was made or authorized to   | be made by  | me.  |  |
| fine or imprisonment of  | hat any willful false statement made<br>not more than 5 years, or both.<br>d valuable consideration, receipt of v   |   | ·  |  |
| 3M COMPANY, and a cassigns, the entire right, continuation (in whole oby me or made jointly watermination of, my empliall Letters Patent, reexathereto (including the rigown name and to claim international convention continuation (in whole opart upon the said inverthave been by me had the distribution of the said invertibution of | nd transfer unto the 3M INNOVATIVerporation of Delaware, having its period to the said in the said application, and in a sith others (provided any such improveyment with 3M COMPANY and any priod to apply for Letters Patent, Utility any priority rights for such foreign a set, treaties, or otherwise), which have in part), renewal, reexamination, restion or improvements thereon, to be a sasignment and transfer not been well and for my heirs, executors, and | incipal office<br>invention and<br>and to any and<br>vement is may<br>y of its existin<br>hereof, of the<br>Models, or In<br>pplications to<br>been or ma<br>elssue, or oth<br>held and en<br>n made; | at Saint Paul, Minnesord application, and in and id all improvements in the de during, or within one g or future subsidiaries). United States of America ventors' Certificates in the which such applications by be granted thereon or er or further application joyed as fully and exclusions, to execute and delivers. | ta, its successors and it to any division or ne said invention made year after the , and in and to any and ca and countries foreign foreign countries in its s are entitled under on any divisional, based in whole or in sively as they would   |
| that may be deemed ne  | er applications, assignments, and do<br>cessary by said Company, its succe<br>d and to obtain or maintain Letters F   | essors, assigr  | ns, and nominees, fully to   | o secure its right, title,   |
| I do hereby authorize ar<br>granted upon any of the<br>title, and interest thereir   | nd request the Commissioner of Pate<br>said applications, to said 3M Innova<br>n.   | ents to issue<br>ative Properti   | any and all Letters Pate<br>es Company, as the ass   | nt which may be<br>signee of the entire right  |
| Legal Name of Invento  | κ.  | ***************************************   |  |  |
| Rudolf J. Dams   |   |   |  | DECEMBER OF THE PROPERTY OF TH |
| Inventor's Signature   |   | Date:   | July 2019  |  |

Case No:

80014US

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:

| PROCES  | S FOR THE MANUFACTURI  |  | PIONYL HALIDE   |
|---|--|--|---|
| <u> </u>  |  | REACTOR  |   |
| The specification of wl   |  |  |   |
| is attached heret   | o <sub>į.</sub>  |  |   |
| was filed on as United States   | Application No.  |  |   |
| is identified as Po   | CT International Application No.  December 12, 2018  | PCT/IB20   | 18/059956   |
| The above-identified a  | pplication was made or authorized t  | o be made by me.   |   |
|   | that any willful false statement mad<br>f not more than 5 years, or both   | e in this declaration is punis   | hable 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 em all Letters Patent, reex thereto (including the own name and to clair international convention continuation (in whole part upon the said invi- | nd valuable consideration, receipt of and transfer unto the 3M INNOVATI corporation of Delaware, having its at, title, and interest in and to the sai or in part) of said application, and in with others (provided any such imprologment with 3M COMPANY and a caminations, reissues, or extensions ight to apply for Letters Patent, Utilin any priority rights for such foreignors, treaties, or otherwise), which have in part), renewal, reexamination, ention or improvements thereon, to be this assignment and transfer not be | VE PROPERTIES COMPAI<br>principal office at Saint Pau<br>d invention and application,<br>and to any and all improve<br>ovement is made during, or<br>ny of its existing or future su<br>thereof, of the United State<br>by Models, or Inventors' Cert<br>applications to which such a<br>tive been or may be granted<br>reissue, or other or further a<br>be held and enjoyed as fully<br>en made; | NY, a wholly-owned subsidiary of<br>I, Minnesota, its successors and<br>and in and to any division or<br>ments in the said invention made<br>within one year after the<br>ibsidiaries), and in and to any and<br>s of America and countries foreign<br>ifficates in foreign countries in its<br>applications are entitled under<br>thereon or on any divisional,<br>application based in whole or in<br>and exclusively as they would |
| consideration any furti<br>that may be deemed r   | nyself and for my heirs, executors, a<br>ner applications, assignments, and o<br>necessary by said Company, its succ<br>aid and to obtain or maintain Letters  | locuments, and to perform s<br>sessors, assigns, and nomin   | such other acts as I lawfully may,<br>sees, fully to secure its right, title,   |
|   | and request the Commissioner of Pa<br>ie said applications, to said 3M Inno<br>in.   |  |   |
| Legal Name of Inven   | tor:   |  |   |
| Rudy W. Van Ca  | ·  |  |   |
| Inventor's Signature:   |  | Date:  |   |
| Du  |  | ee July  | 813   |

Case No:

80014US

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:

|   |  | OW REACTO   | -HALUPROPIONYL HALIDE<br>R  |  |
|---|--|---|---|--|
| The specification of whic   | h:   |   |   |  |
| is attached hereto;   |  |   |   |  |
| was filed on as United States Ap  | plication No.  |   |   |  |
|   | International Application No.<br>December 12, 2018   |   | PCT/IB2018/059956   |  |
| The above-identified app  | dication was made or authoriz  | red to be made by   | / me.   |  |
| fine or imprisonment of right addition, for good and and do hereby assign an 3M COMPANY, and a coassigns, the entire right, continuation (in whole or by me or made jointly wit termination of, my emploall Letters Patent, reexarthereto (including the right own name and to claim a international conventions continuation (in whole or part upon the said invent have been by me had this | valuable consideration, receit discrete than 5 years, or both valuable consideration, receit discrete the 3M INNOV proporation of Delaware, having title, and interest in and to the in part) of said application, as in others (provided any such it yment with 3M COMPANY arninations, reissues, or extensing to apply for Letters Patent, any priority rights for such fores, treaties, or otherwise), which in part), renewal, reexamination or improvements thereon is assignment and transfer no | pt of which is ack<br>/ATIVE PROPER<br>g its principal office<br>e said invention are<br>and in and to any a<br>improvement is me<br>and any of its exist<br>ions thereof, of the<br>Utility Models, or<br>eign applications to<br>h have been or me<br>ion, reissue, or of<br>to be held and e<br>t been made; | nowledged, I have agreed to assign and ITIES COMPANY, a wholly-owned subsite at Saint Paul, Minnesota, its successond application, and in and to any division and all improvements in the said invention lade during, or within one year after the ing or future subsidiaries), and in and to a le United States of America and countries Inventors' Certificates in foreign countries on which such applications are entitled unally be granted thereon or on any division her or further application based in whole injoyed as fully and exclusively as they we | transfer<br>diary of<br>rs and<br>or<br>n made<br>any and<br>s foreign<br>is in its<br>ider<br>ial,<br>or in |
| consideration any further that may be deemed ned  | applications, assignments, a<br>essary by said Company, its  | nd documents, as<br>successors, assig   | ators, to execute and deliver without furth<br>nd to perform such other acts as I tawfulli<br>gns, and nominees, fully to secure its righ<br>y Models, or Inventors' Certificates in any  | y may,<br>nt, title.   |
| I do hereby authorize and granted upon any of the title, and interest therein.  | said applications, to said 3M i  | of Patents to issue<br>Innovative Proper  | e any and all Letters Patent which may be<br>ties Company, as the assignee of the en  | e<br>itire right.  |
| Legal Name of Inventor  | <u> </u>   |   |   |  |
| Matthias Conradi  |  |   |   |  |
| Inventor's Signature:   |  | Date:   |   |  |
| 77 (2000)   | />   |   | 19 19 116   |  |

Case No:

80014US

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:

| app         | lication and for which a patent                                  | s sought on the invention entit   | lea:      |  |
|-------------|--|-----------------------------------|-----------|--|
|             | PROCESS FOR TH   | E MANUFACTURING OI                | F A 3-H   | IALOPROPIONYL HALIDE   |
|             |  | IN A FLOW REA                     | CTOR      |  |
| The         | specification of which:  |                                   |           |  |
|             | is attached hereto;  |                                   |           |  |
|             | was filed on as United States Application I                      | ło.                               |           |  |
| $\boxtimes$ | is identified as PCT Internation filed on December               | nal Application No.<br>r 12, 2018 |           | PCT/IB2018/059956  |
| The         | above-identified application wa                                  | as made or authorized to be m     | ade by n  | ne.  |
|             | reby acknowledge that any will<br>or imprisonment of not more th |                                   | s declara | ation is punishable under 18 U.S.C. 1001 by  |
|             |  |                                   |           | wledged, I have agreed to assign and transfer<br>IES COMPANY, a wholly-owned subsidiary of |

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:  Marine Movsisyan |           |
|---|-----------|
| Inventor's Signature:                     | Date:     |
| (1) Journal of the second                 | 48/7/2049 |

Case No:

80014US

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:

# PROCESS FOR THE MANUFACTURING OF A 3-HALOPROPIONYL HALIDE IN A FLOW REACTOR The specification of which: is attached hereto; was filed on as United States Application No. is identified as PCT International Application No. PCT/IB2018/059956 Filed on December 12, 2018

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

RECORDED: 05/26/2020

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:<br>Christian Stevens |  |
|--|--|
| Inventor's Signature:                        | Date:<br>  -   -   -   -   -   -   2 0 % |