PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3984913

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------|----------------|
| YINGHUA YANG | 07/28/2016 |
| RAN TAO | 07/28/2016 |

RECEIVING PARTY DATA

| Name: | M Innovative Properties Company | | |
|-----------------|---------------------------------|--|--|
| Street Address: | O. Box 33427 | | |
| City: | t. Paul | | |
| State/Country: | MINNESOTA | | |
| Postal Code: | 55133-3427 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | | | |
|---------------------|----------|--|--|--|--|
| Application Number: | 29572715 | | | | |

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: hhfroelke1@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: 78553US002 | | |
|------------------------------------|--|--|
| NAME OF SUBMITTER: | HYLIS H. FROELKE | |
| SIGNATURE: | /Hylis H. Froelke/ | |
| DATE SIGNED: | 07/29/2016 | |
| | This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 2

source=Declaration-Assignment_Executed_78553US002#page1.tif source=Declaration-Assignment_Executed_78553US002#page2.tif

PATENT 503938259 REEL: 039292 FRAME: 0397

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

Case No:

78553US002

| As a below | / named li | nventor, I b | elieve I an | ı an origin: | al inventor | or an | original | joint l | nventor i | of a cla | aimed | invention | in the |
|-------------|------------|--------------|--------------|--------------|-------------|----------|----------|---------|-----------|----------|-------|-----------|--------|
| application | and for w | hich a pate | ent is sough | nt on the in | vention er | rtitled: | | | | | | | |
| | | - | | | | | | | | | | | |

| | PACKAGE | |
|-----|---|--|
| The | specification of which: | |
| Ø | is attached hereto; | |
| | was filed on as United States Application No. | |
| | is identified as PCT International Application No. filed on | |

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, lifte, 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: | |
|-------------------------|------------|
| Yinghua YANG | |
| Inventor's Signature: | Date: |
| Pinghua Yang | 2016. 7.28 |

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

Case No:

78553US002

| As a below named inventor, I believe I am an original invapplication and for which a patent is sought on the inventi | entor or an original joint inventor of a claimed invention in the lonentitled: | | | | |
|--|--|--|--|--|--|
| PACKAGE | | | | | |
| The specification of which: | | | | | |
| is attached hereto; | | | | | |
| was filed on as United States Application No. | | | | | |
| is identified as PCT International Application No. | | | | | |
| The above-identified application was made or authorized | to be made by me. | | | | |
| and do hereby assign and transfer unto the 3M INNOVAT 3M COMPANY, and a corporation of Delaware, having its assigns, the entire right, title, and interest in and to the sa continuation (in whole or in part) of said application, and it by me or made jointly with others (provided any such impitermination of, my employment with 3M COMPANY and a all Letters Patent, reexaminations, reissues, or extensions thereto (including the right to apply for Letters Patent, Util own 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 consideration any further applications, assignments, and that 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 any of its existing or future subsidiaries), and in and to any and a thereof, of the United States of America and countries foreign ity 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 sen made; | | | | |
| t do hereby authorize and request the Commissioner of P granted upon any of the said applications, to said 3M Inno title, and interest therein. | atents to issue any and all Letters Patent which may be pvative Properties Company, as the assignee of the entire right, | | | | |
| Legal Name of Inventor: | | | | | |
| Ran TAO | | | | | |
| Inventor's Signature: | Date: | | | | |

PATENT REEL: 039292 FRAME: 0399

2016.7.28

RECORDED: 07/29/2016

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