PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3769600

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

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| MATTHEW B. JOHNSON | 01/22/2016 |
| ADAM D. HAAG | 01/22/2016 |
| MARTIN E. DENKER | 01/21/2016 |
| TAKASHI FUJITA | 01/22/2016 |

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: | 14916913 |

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: NSCONWAY@MMM.COM

Correspondent Name: 3M INNOVATIVE PROPERTIES COMPANY

Address Line 1: P.O. BOX 33427

Address Line 4: SAINT PAUL, MINNESOTA 55133-3427

| ATTORNEY DOCKET NUMBER: | 74516US005 |
|------------------------------------------------------------|--------------------|
| NAME OF SUBMITTER: NICOLE S. CONWAY | |
| SIGNATURE: | /Nicole S. Conway/ |
| DATE SIGNED: | 03/04/2016 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |

Total Attachments: 4

source=Declaration_Assignment_MatthewJohnson_74516US005#page1.tif

PATENT REEL: 037897 FRAME: 0396 source=Declaration_Assignment_AdamHaag_74516US005#page1.tif source=Declaration_Assignment_MartinDenker_74516US005_signed#page1.tif source=Declaration_Assignment_TakashiFujita_74516US005_Signed#page1.tif

> PATENT REEL: 037897 FRAME: 0397

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

Case No:

74516US005

As a below named inventor. I believe I am an original inventor or an original joint inventor of a claimed invention in the 2

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| CT/US2014/054068 |
| |
| is punishable under 18 U.S.C. 1001 by |
| r |

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: MATTHEW B. JOHNSON | |
|--------------------------------------------|---------------|
| Inventor's Signature: | Date: |
| Mathe B. Hom | 22-Jan., 2016 |

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

Case No:

74516US005

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:

| | <u> </u> | MULTILAYER REFLEC | TIVE POLARIZER | |
|-------------|----------------------------------|---------------------------------------------------|-----------------------------------------|--|
| The | specification of wh | ich: | *************************************** | |
| \boxtimes | is attached hereto | N Comment | | |
| | was filed on as United States | Application No. | | |
| \boxtimes | is identified as PC filed on | T International Application No. SEPTEMBER 4, 2014 | PCT/US2014/054068 | |

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: | |
|-------------------------|------------|
| ADAM D. HAAG | |
| Inventor's Signature: | Date: |
| | 01-22-2016 |

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

Case No:

74516US005

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:

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| | was filed on | | | , p |
| | as United States A | Application No. | | |
| X | is identified as PC filed on | T International Application No. SEPTEMBER 4, 2014 | | PCT/US2014/054068 |
| | `. | optication was made or authorized to | | |
| | | that any wiliful false statement made not more than 5 years, or both. | in this deciara | ation is punishable under 18 U.S.C. 1001 by |
| and SM (assi cont cont em all L here cont cont cont cont cont cont cont cont | do hereby assign a COMPANY, and a grow, the entire right inuation (in whole on made jointly value of made jointly value of made jointly value of including the right iname and to claim mational conventionation (in whole of upon the said invested to been by me had to the conventional conventi | and transfer unto the 3M INNOVATIVe corporation of Delaware, having its part, title, and interest in and to the said or in part) of said application, and in a with others (provided any such improvious to the said application, and in a said and any such improving the said and any such improving the said and any priority rights for such foreign and the said and priority rights for such foreign and the said and priority rights for such foreign and the said an | E PROPERTI rincipal office invention and and to any and vement is mad y of its existing hereof, of the Models, or In pplications to been or may alssue, or othe held and enjo n made; | wiedged, I have agreed to assign and transfer IES COMPANY, a wholly-owned subsidiary of at Saint Paul, Minnesota, its successors and application, and in and to any division or diall improvements in the said invention made de during, or within one year after the gior future subsidiaries), and in and to any and United States of America and countries foreign ventors' Certificates in foreign countries in its which such applications are entitled underly be granted thereon or on any divisional, ar or further application based in whole or in oyed as fully and exclusively as they would |
| cons that and | sideration any furth may be deemed no | er applications, assignments, and do acessary by said Company, its succe | cuments, and essors, assign | ors, to execute and deliver without further to perform such other acts as I lawfully may, s, and nominees, fully to secure its right, title, Models, or Inventors' Certificates in any and all |
| grar | hereby authorize a nted upon any of the , and interest therei | e said applications, to said 3M Innov | ents to issue a ative Propertie | any and all Letters Patent which may be es Company, as the assignee of the entire right |
| Ľe: | gai Name of Invent | Ŏſ, | | |
| W | ARTIN E. DENK | (ER | | |
| | ventor's Signature: | | Date: | |
| | Madio Da | As | 1/2 | 1/2016 |

PATENT REEL: 037897 FRAME: 0400

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

Case No:

74516US005

| | MUL | TILAYER REFLECT | IVE POLARIZER |
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| The specification | n of which | | |
| 🔯 is attached | hereto; | | |
| was filed on as United S | n States Application No. | | |
| is identified filed on | i as PCT international / | | PCT/US2014/054068 |
| The above-iden | tified application was m | nade or authorized to be r | nade by me |
| I hereby acknow fine or imprison: | vledge that any willful fa ment of not more than s | alse statement made in th 5 years, or both. | iis declaration is punishable under 18 U.S.C. 1001 by |
| 3M COMPANY, assigns, the ent continuation (in by me or made termination of, nall Letters Pater thereto (includinown name and tinternational corcontinuation (in part upon the sahave been by metallogical). | and a corporation of D ire right, title, and intent whole or in part) of said pointly with others (proving employment with 3N it, reexaminations, reising the right to apply for claim any priority right ventions, treaties, or o whole or in part), reneved invention or improve thad this assignment. | relaware, having its princi- est in and to the said inve- d application, and in and in ided any such improvement of COMPANY and any of its sues, or extensions there Letters Patent, Utility Mor ints for such foreign application of the such foreign application, reissub internal thereon, to be helf and transfer not been ma | |
| consideration ar that may be dee and interest as a | ny further applications, Imed necessary by said | assignments, and docum d Company, its successor | iministrators, to execute and deliver without further ents, and to perform such other acts as I lawfully may, is, assigns, and nominees, fully to secure its right, title, nt, Utility Models, or Inventors' Certificates in any and all |
| countries, and | onze and request the (| Commissioner of Patents | to issue any and all Letters Patent which may be Properties Company, as the assignee of the entire righ |
| l do hereby auth | ly of the said applicatio | ilis, io salo divi illiovativa | rropenies company, as the assignee of the entire righ |
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| I do hereby auth granted upon ar title, and interes | ry of the said application therein. Inventor: UJITA | ris, io said oly illijovalive | rroperties company, as the assignee of the entire right |

PATENT REEL: 037897 FRAME: 0401

RECORDED: 03/04/2016