

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GUOWEN DING	03/07/2017
CESAR CLAVERO	03/06/2017
DANIEL SCHWEIGERT	03/06/2017
MINH LE	02/28/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTERMOLECULAR INC.
<b>Street Address:</b>	3011 N. FIRST STREET
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15440065
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)816-4100
<i>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.</i>	
<b>Phone:</b>	703-816-4100
<b>Email:</b>	PTOMAIL@nixonvan.com
<b>Correspondent Name:</b>	NIXON & VANDERHYE P.C.
<b>Address Line 1:</b>	901 N. GLEBE ROAD
<b>Address Line 2:</b>	11TH FLOOR
<b>Address Line 4:</b>	ARLINGTON, VIRGINIA 22203-1808
<b>ATTORNEY DOCKET NUMBER:</b>	JAR-3691-3938
<b>NAME OF SUBMITTER:</b>	JOSEPH A. RHOA
<b>SIGNATURE:</b>	/Joseph A. Rhoa/
<b>DATE SIGNED:</b>	08/30/2018
<b>Total Attachments: 4</b>	
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ASSIGNMENT FOR PATENT APPLICATION  
(All Rights)

WHEREAS, Guowen DING; Cesar CLAVERO; Daniel SCHWEIGERT and Minh LE; all c/o INTERMOLECULAR INC., 3011 N. First Street, San Jose, CA 95134, respectively (hereinafter ASSIGNORS) have made an invention entitled HEAT TREATABLE COATED ARTICLE HAVING TITANIUM NITRIDE AND ITO BASED IR REFLECTING LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on February 23, 2017 under Serial No. 15/440,065;

WHEREAS, INTERMOLECULAR INC. (hereinafter ASSIGNEE), a Delaware corporation, having an office and place of business at 3011 N. First Street, San Jose, California, 95134, is desirous of acquiring an interest therein;

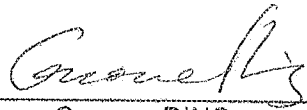
NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the below listed ASSIGNORS, having sold, assigned, and transferred, hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all national stage applications, foreign counterpart applications, PCT applications, continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other International agreements to which the United States of America adheres, and the below listed ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives.

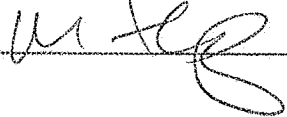
ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, its successors, assigns, or legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

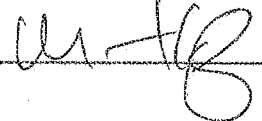
3/7/2017  
Date

  
Guowen DING

Witnessed by: 


3/6/2017  
Date

  
Cesar CLAVERO

Witnessed by: 

3/6/2017  
Date

  
Daniel SCHWEIGERT

Witnessed by: 

\_\_\_\_\_  
Date

\_\_\_\_\_  
Minh LE

Witnessed by: \_\_\_\_\_

**ASSIGNMENT FOR PATENT APPLICATION**  
**(All Rights)**

WHEREAS, Guowen DING; Cesar CLAVERO; Daniel SCHWEIGERT and Minh LE; all c/o INTERMOLECULAR INC., 3011 N. First Street, San Jose, CA 95134, respectively (hereinafter ASSIGNORS) have made an invention entitled HEAT TREATABLE COATED ARTICLE HAVING TITANIUM NITRIDE AND ITO BASED IR REFLECTING LAYER(S) for which a so-entitled application for Letters Patent of the United States was filed on **February 23, 2017** under Serial No. **15/440,065**;

WHEREAS, INTERMOLECULAR INC. (hereinafter ASSIGNEE), a Delaware corporation, having an office and place of business at 3011 N. First Street, San Jose, California, 95134, is desirous of acquiring an interest therein;

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the below listed ASSIGNORS, having sold, assigned, and transferred, hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all national stage applications, foreign counterpart applications, PCT applications, continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the below listed ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives.

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, its successors, assigns, or legal representatives, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

\_\_\_\_\_  
Date Guowen DING  
Witnessed by: \_\_\_\_\_

\_\_\_\_\_  
Date Cesar CLAVERO  
Witnessed by: \_\_\_\_\_

\_\_\_\_\_  
Date Daniel SCHWEIGERT  
Witnessed by: \_\_\_\_\_

\_\_\_\_\_  
Date 2/28/17  
Witnessed by: \_\_\_\_\_

\_\_\_\_\_  
Mint LE