

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2614206

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| GREGORY NOWLING | 11/13/2013 |
| JOHN FOSTER | 11/13/2013 |
| RECEIVING PARTY DATA | |
| Name: | Intermolecular, Inc. |
| Street Address: | 3011 N. First Street |
| City: | San Jose |
| State/Country: | CALIFORNIA |
| Postal Code: | 95134 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14079473 |
| CORRESPONDENCE DATA | |
| Fax Number: | (408)582-5401 |
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| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | |
| Correspondent Name: | INTERMOLECULAR, INC. |
| Address Line 1: | 3011 N. FIRST STREET |
| Address Line 4: | SAN JOSE, CALIFORNIA 95134 |
| ATTORNEY DOCKET NUMBER: | IM1131_US |
| NAME OF SUBMITTER: | MANU KASHYAP |
| Signature: | /Manu Kashyap/ |
| Date: | 11/13/2013 |
| Total Attachments: 1 source=2013_11_13_IM1131_US_AST#page1.tif | |

CH \$40.00 14079473

ASSIGNMENT OF PATENT APPLICATION

(Accompanying Application)

Whereas we the undersigned inventors have invented certain new and useful improvements as set forth in the patent application entitled:


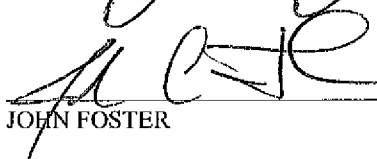
Etching of semiconductor structures that include titanium-based layers

(Atty. Docket No. IM1131_US) for which we have executed an application for a United States Letters Patent.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we the undersigned inventors hereby:

- 1) Sell, assign and transfer to **Intermolecular, Inc., a Delaware** corporation having a place of business at **3011 N. First Street, San Jose, California 95134 U.S.** (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.

Signed on the dates indicated beside our signatures.

| | | |
|----|--|-----------------------|
| 1) | Signature:  | Date: <u>11/13/13</u> |
| | Typed Name: GREGORY NOWLING | |
| 2) | Signature:  | Date: <u>11/13/13</u> |
| | Typed Name: JOHN FOSTER | |