

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|-------------------------|---------------|----------------|---------------------|-------------------------|--------------|---------------|----------------|------------|--------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Munkang Choi</td> <td>12/14/2012</td> </tr> <tr> <td>Victor Moroz</td> <td>12/14/2012</td> </tr> <tr> <td>Xi-Wei Lin</td> <td>12/14/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Munkang Choi | 12/14/2012 | Victor Moroz | 12/14/2012 | Xi-Wei Lin | 12/14/2012 | | |
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| Munkang Choi | 12/14/2012 | | | | | | | | | | |
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| Xi-Wei Lin | 12/14/2012 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>Synopsys, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>700 E. Middlefield Road</td> </tr> <tr> <td>City:</td> <td>Mountain View</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94043-4033</td> </tr> </table> | | Name: | Synopsys, Inc. | Street Address: | 700 E. Middlefield Road | City: | Mountain View | State/Country: | CALIFORNIA | Postal Code: | 94043-4033 |
| Name: | Synopsys, Inc. | | | | | | | | | | |
| Street Address: | 700 E. Middlefield Road | | | | | | | | | | |
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| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13717532</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13717532 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13717532 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: 6507120263 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: jgray@hmbay.com</p> <p>Correspondent Name: SYNOPSYS, Inc. c/o Haynes Beffel & Wolfe</p> <p>Address Line 1: P.O. Box 366</p> <p>Address Line 4: Half Moon Bay, CALIFORNIA 94019</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | SYNP 2076-1 | | | | | | | | | | |
| NAME OF SUBMITTER: | Warren S. Wolfeld | | | | | | | | | | |
| <p>Total Attachments: 2 source=00352896#page1.tif source=00352896#page2.tif</p> | | | | | | | | | | | |

OP \$40.00 13717532

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

(1) Munkang Choi, Pleasanton, CA

(2) Victor Moroz, Saratoga, CA

(3) Xi-Wei Lin, Fremont, CA

hereinafter termed "Inventors", have invented certain new and useful improvements in

INCREASING ION/OFF RATIO IN FINFETS AND NANO-WIRES

and

☐ I have filed a provisional application for a United States patent disclosing and identifying the above invention on as Application No. ,

☐ I have filed a non-provisional application for a United States patent disclosing and identifying the above invention on as Application No. ,

☒ I am filing a non-provisional application herewith, and

☐ I have executed an oath or declaration of inventorship for such non-provisional application on:

(1) the 14th day of December, 2012;

(2) the 14th day of December, 2012;

(3) the 14th day of December, 2012;

(hereinafter termed "applications"); and

WHEREAS, Synopsys, Inc., a corporation of Delaware, having a place of business at , (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said applications and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

I. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents (including patent, utility model and industrial design) on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise, including the right to claim priority from the applications; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extension of any of said patents.

2. Said Inventors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

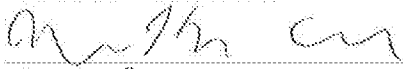
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, the Inventors' respective heirs, legal representatives and assigns.

4. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

5. Said Inventors hereby authorize any of the following attorneys:

Mark A. Haynes, Ernest J. Boffel, Jr., Warren S. Wolfeld, James F. Hann, Kenta Suzue, Ryan Davis and Yiding Wu to (a) insert the date of execution of the oath or declaration of inventorship, and (b) insert the application number and filing date of this application when known.

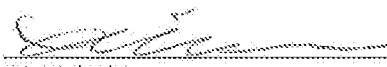
IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.


Munkang Choi

Date: 14th Dec., 2012


Victor Moroz

Date: 14th Dec., 2012


Xi-Wei Lin

Date: 14th December, 2012