

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3185307

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	VICTOR MOROZ	01/14/2015
	XI-WEI LIN	01/14/2015
RECEIVING PARTY DATA		
Name:	SYNOPSYS, INC.	
Street Address:	700 E. MIDDLEFIELD RD.	
City:	MOUNTAIN VIEW	
State/Country:	CALIFORNIA	
Postal Code:	94043	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14584786
CORRESPONDENCE DATA		
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<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>		
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Address Line 1:	P.O. BOX 366	
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ATTORNEY DOCKET NUMBER:	SYNP 1722-7	
NAME OF SUBMITTER:	WARREN S. WOLFELD	
SIGNATURE:	/Warren S. Wolfeld/	
DATE SIGNED:	01/15/2015	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 2		
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JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

- (1) Victor Moroz
17035 Bohlman Road, Saratoga, California 95070
- (2) Xi-Wei Lin
39874 San Moreno Court, Fremont, California 94539

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

**METHODS FOR FABRICATING HIGH-DENSITY
INTEGRATED CIRCUIT DEVICES**

and

[X] as described in a provisional application for a United States patent disclosing and identifying the above invention on 29 December 2014, as Application No. 14/584,786,

[] as described in a non-provisional application herewith, and

[X] have executed an oath or declaration of inventorship for such non-provisional application on:

(1) the 14th day of January, 2015;

(2) the 14th day of January, 2015;

(hereinafter termed "applications"); and

WHEREAS, Synopsys, Inc., a corporation of Delaware, having a place of business at having a place of business at 700 E. Middlefield Rd., Mountain View, CA 94043 (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:

1. 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.

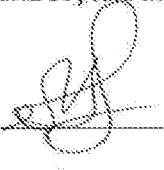
3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, the Inventors' respective heirs, legal representatives and assigns.

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. Beffel, Jr., Warren S. Wolfeld, James E. Hann, Kenta Suzue, Chris Blizzard 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.



(1) Victor Moroz

Date: Jan. 14, 2015



(2) Xi-Wei Lin

Date: Jan 14, 2015