

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4721601

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	VICTOR MOROZ	11/16/2017
	IBRAHIM AVCI	11/16/2017
	SHUQING LI	11/16/2017
	PHILIPPE ROUSSEL	11/20/2017
	IVAN CIOFI	11/20/2017
RECEIVING PARTY DATA		
Name:	SYNOPSYS, INC.	
Street Address:	690 E. MIDDLEFIELD ROAD	
City:	MOUNTAIN VIEW	
State/Country:	CALIFORNIA	
Postal Code:	94043	
PROPERTY NUMBERS Total: 3		
	Property Type	Number
	Application Number:	15823252
	Application Number:	62431276
	Application Number:	62430284
CORRESPONDENCE DATA		
Fax Number:	(650)712-0263	
<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>		
Phone:	6507120340	
Email:	kmarley@hmbay.com	
Correspondent Name:	SYNOPSYS, INC. C/O HAYNES BEFFEL & WOLFELD LLP	
Address Line 1:	637 MAIN STREET	
Address Line 2:	MARK A. HAYNES	
Address Line 4:	HALF MOON BAY, CALIFORNIA 94019	
ATTORNEY DOCKET NUMBER:	SYNP 2984-3	
NAME OF SUBMITTER:	MARK A. HAYNES	
SIGNATURE:	/Mark A. Haynes/	
DATE SIGNED:	12/06/2017	

PATENT

Total Attachments: 4

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JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

- (1) Victor Moroz
17035 Bohlman Road, Saratoga, CA 95070
- (2) Ibrahim Avci
1990 Briarwood Drive, Santa Clara, CA 95051
- (3) Shuqing Li
414 Dayton Avenue, Santa Clara, CA 95051

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

NANO-WIRE RESISTANCE MODEL

as described in:

- (1) the attached application, or (if following box is checked):

☐ United States application or PCT international application number _____ filed on _____

- (2) U.S. Provisional Patent Application No. 62/430,284, filed on 05 December 2016, entitled NANO-WIRE RESISTANCE MODEL, and having Docket No. SYNP 2984-1;
- (3) U.S. Provisional Patent Application No. 62/431,276, filed on 07 December 2016, entitled NANO-WIRE RESISTANCE MODEL, and having Docket No. SYNP 2984-2;

(hereinafter termed "applications"); and

WHEREAS, Synopsys, Inc., a corporation of Delaware, having a place of business at having a place of business at 690 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.

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

(1) Victor Moroz

Date: Nov. 16, 2017

(2) Ibrahim Avci

Date: Nov. 16, 2017

(3) Shuqing Li

Date: Nov. 16, 2017

ASSIGNMENT

WHEREAS, the undersigned,

- (1) Philippe Roussel
Heidebloemstraat 16, 3210 Linden-Lubbeck, Belgium
- (2) Ivan Ciofi
Toverberg 17, 3001 Heverlee, Belgium

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

NANO-WIRE RESISTANCE MODEL

as described in:

- (1) the attached application, or (if following box is checked):

☐ United States application or PCT international application number _____ filed on _____

- (2) U.S. Provisional Patent Application No. 62/430,284, filed on 05 December 2016, entitled NANO-WIRE RESISTANCE MODEL, and having Docket No. SYNP 2984-1;
- (3) U.S. Provisional Patent Application No. 62/431,276, filed on 07 December 2016, entitled NANO-WIRE RESISTANCE MODEL, and having Docket No. SYNP 2984-2;

(hereinafter termed "applications"); and

WHEREAS, IMEC VZW, a corporation of Belgium, having a place of business at Kapeldreef 75, Leuven, Belgium, 3001, 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,

WHEREAS, Synopsys, Inc., a corporation of Delaware, having a place of business at having a place of business at 690 E. Middlefield Rd., Mountain View, CA 94043, hereinafter referred to as "Assignee," is desirous of acquiring all right, title and interest in the inventions and the patent applications, and in any Letters Patent and Registrations which may be granted on the same in any country;

NOW, THEREFORE, for good and valuable consideration acknowledged by said Inventors to have been received in full from IMEC VZW:

1. Said Inventors do hereby sell, assign, transfer and convey unto IMEC VZW, 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.


SYNP 2984-3
(2984US03)

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

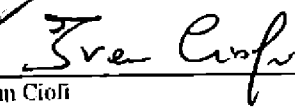
3. Said Inventors hereby warrant and represent that said Inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by IMEC VZW, IMEC VZW hereby assigns to Assignee all right, title and interest in and to the inventions and the patent applications, and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in any country, and to claim the priority from the applications from which the patent issued. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by IMEC VZW had this Assignment not been made, for the full term of any Letters Patent and Registrations which have been granted and may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

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


(1) Philippe Roussel

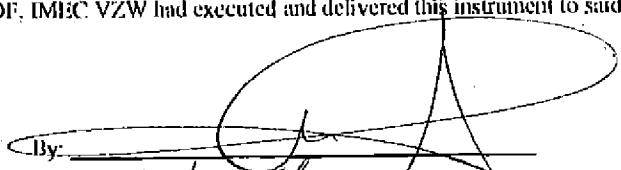
Date: 2017.11.20


(2) Ivan Ciofi


Date: 20/11/2017

IN WITNESS WHEREOF, IMEC VZW had executed and delivered this instrument to said Assignee as of the date written below.

IMEC VZW


By: _____
Name: Anobri Claus
Title: IP Portfolio & Litigation Director
Date: 22/11/2017

SYNOPSYS, INC.


By: _____
Name: David Pursley
Title: VP, Deputy General Counsel
Date: 12/6/17