

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4143982

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	05/14/2012
CONVEYING PARTY DATA	
Name	Execution Date
MAGMA DESIGN AUTOMATION LLC	10/06/2016
RECEIVING PARTY DATA	
Name:	SYNOPSYS, INC.
Street Address:	690 EAST MIDDLEFIELD ROAD
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	11781043
Application Number:	14066272
Application Number:	11781054
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DATE SIGNED:	11/15/2016
Total Attachments: 2	
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NUNC PRO TUNC ASSIGNMENT OF U.S. PATENT APPLICATIONS

THIS NUNC PRO TUNC PATENT ASSIGNMENT is effective May 14, 2012. For good and valuable consideration, receipt of which is hereby acknowledged, Magma Design Automation LLC, a Delaware Limited Liability Company, having a place of business at 2711 Centerville Road, Suite 400, Wilmington, Delaware 19808 (the "Assignor"), hereby effective May 14, 2012, sells, assigns, and transfer to Synopsys, Inc., a California Corporation having a place of business at 690 East Middlefield Road, Mountain View, California 94043 (the "Assignee"), its successors and assigns, the entire right, title, and interest throughout the world in the inventions, discoveries, improvements, or designs of the patents and patent applications listed on Schedule A attached hereto, and all patent applications and letters patent (including, but not limited to, utility patents, design patents, utility models, inventor certificates, and applications thereof) of every country for such inventions, including divisions, reissues, reexaminations, continuations, continuations-in-part, and extensions thereof, and all rights of priority resulting from the filing of such applications. Effective May 14, 2012, the Assignor authorizes the Assignee to apply for patents of foreign countries for such inventions, discoveries, improvements, or designs, and to claim all rights of priority without further authorization from the Assignor. Effective May 14, 2012, the Assignor agrees to execute or use its best efforts to cause the execution of all papers necessary or advisable in connection with such United States and foreign applications. Effective May 14, 2012, the Assignor hereby requests the U.S. Patent and Trademark Office or any other U.S. or non-U.S. agency to issue any and all of the Patent Rights to Assignee, its successors and assigns.

Effective May 14, 2012, the Assignor further assigns to the Assignee the right to bring or maintain suit at law and equity against past infringement of said patents and patent applications listed on Schedule A hereof and to retain for the benefit of the Assignee all damages or settlements arising from any such past infringement.

Executed this 6th day of October, 2016

MAGMA DESIGN AUTOMATION LLC
a Delaware Limited Liability Company

Dated: Oct. 6, 2016

By: [Signature]

Name: Erika Varga McEnroe

Title: Manager

SYNOPSYS, INC.
a California Corporation

Dated: Oct. 6, 2016

By: [Signature]

Name: Craig Shimmers

Title: Legal Counsel Director

SCHEDULE A

1. U.S. Patent No. 8,473,876
2. U.S. Patent No. 8,572,523
3. U.S. Patent Application No. 14/066,272