

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALEXANDER JOHN WAKEFIELD	03/02/2017
JEFFERRY PHUONG VO	03/02/2017
JOERG HORST RICHTER	08/18/2017
KAI THORSTEN SCHUETZ	08/18/2017
RECEIVING PARTY DATA	
Name:	SYNOPSIS, INC.
Street Address:	690 EAST MIDDLEFIELD ROAD
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16102452
CORRESPONDENCE DATA	
Fax Number:	(650)938-5200
<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:	6503357858
Email:	dchevalier@fenwick.com
Correspondent Name:	CAROLINE GREENWOOD
Address Line 1:	801 CALIFORNIA STREET
Address Line 4:	MOUNTAIN VIEW, CALIFORNIA 94041
ATTORNEY DOCKET NUMBER:	22524-41280/US
NAME OF SUBMITTER:	CAROLINE GREENWOOD
SIGNATURE:	/CAROLINE GREENWOOD/
DATE SIGNED:	09/05/2018
Total Attachments: 5	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Synopsys, Inc.**, a Delaware corporation, having a place of business at 690 East Middlefield Road, Mountain View, California, 94043 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, Registered Community Designs, international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. 15/449,877, entitled "**Capturing Time-Slice of Emulation Data for Offline Embedded Software Debug.**" filed on March 3, 2017, which claims priority from a provisional application, filed on March 4, 2016, now bearing U.S. Application No. 62/304,044.

2. The entire worldwide right, title, and interest in and to:
 (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;
 (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not

Title Filed	Capturing Time-Slice of Emulation Data for Offline Embedded Software Debug	Attorney Docket #:	22524-
	March 3, 2017		35816/118
Application #:	15/449,877	Client Ref #:	28181/S02

hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature
Alexander John Wakefield
Alexander John Wakefield

Date of Signature
3/2/2017

Name and Signature
Jeffery Phuong Vo
Jeffery Phuong Vo

Date of Signature

Name and Signature
Joerg Horst Richter
Joerg Horst Richter

Date of Signature

Name and Signature
Kai Thorsten Schuetz
Kai Thorsten Schuetz

Date of Signature

Title:	Capturing Time-Slice of Emulation Data for Offline Embedded Software Debug		
Filed:	March 3, 2017	Attorney Docket #:	22524-35816/US
Application #:	15/449,877	Client Ref #:	2818US02

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Filed:	March 3, 2017	Attorney Docket #:	22524-35816/US
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Jeffery Phuong Vo

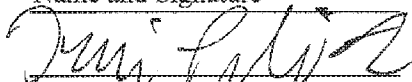
Name and Signature _____ Date of Signature _____



Joerg Horst Richter

8/18/2017

Name and Signature _____ Date of Signature _____



Kai Thorsten Schuetz

8/18/2017