503252317 04/06/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3298935

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZUO DAI	03/16/2015
AIQUN CAO	03/16/2015

RECEIVING PARTY DATA

Name:	SYNOPSYS, INC.
Street Address: 700 E. MIDDLEFIELD ROAD	
City:	MOUNTAIN VIEW
State/Country:	CALIFORNIA
Postal Code:	94043

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14660535

CORRESPONDENCE DATA

Fax Number: (530)759-1665

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.

Phone: 530-759-1661

Email: jeannie@parklegal.com **Correspondent Name:** A. RICHARD PARK

Address Line 1: PARK, VAUGHAN, FLEMING & DOWLER LLP

Address Line 2: 2820 FIFTH STREET

Address Line 4: DAVIS, CALIFORNIA 95618

ATTORNEY DOCKET NUMBER: SNPS-2374US02	
NAME OF SUBMITTER:	A. RICHARD PARK
SIGNATURE:	/A. Richard Park/
DATE SIGNED:	04/06/2015

Total Attachments: 4

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PATENT 503252317 REEL: 035342 FRAME: 0460

CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Zuo Dai Aiqun Cao

invention:

6451 Hidden Creek Court, San Jose, CA 95120 497 Rincon Avenue, Sunnyvale, CA 94086

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

NETWORK FLOW BASED FRAMEWORK FOR CLOCK TREE OPTIMIZATION

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the

	On theday of	, 20;		
	Or			
<u>X</u>	Said application having Application Number 14/660	,535 and	filed on 03/17/2015	_; and
Middle	WHEREAS, SYNOPSYS, INC., a corporation of the field Road, Mountain View, CA 94043-4033, (hereinaf			
	itle and interest in and to said application and the invent			•
the inve	ention, heretofore conceived, made or discovered jointly	or severally by said I	nventor(s) (all collectivel	y
hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of				

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

protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

- 1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (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 extensions of any of said patents.
- 2. Said Inventor(s) 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 Inventor(s) 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,

PATENT REEL: 035342 FRAME: 0461 infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) 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 Inventor(s), their respective heirs, legal representatives and assigns.
- 4. Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

Tuo Dai	March 16, 2015
Zuo Dai	Date
Aiqun Cao	Date
	Date
	Date
	Date

PATENT REEL: 035342 FRAME: 0462

CORPORATE ASSIGNMENT

WHEREAS, the undersigned,

Zuo Dai Aiqun Cao 6451 Hidden Creek Court, San Jose, CA 95120 497 Rincon Avenue, Sunnyvale, CA 94086

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

NETWORK FLOW BASED FRAMEWORK FOR CLOCK TREE OPTIMIZATION

and hav	we executed a declaration or oath for an application:	tion for a United	States pa	itent disclosing	g and identifyin	ng the
_	On the day of	, 20;				
	Or					
<u>X</u>	Said application having Application Number_	14/660,535		and filed on_	03/17/2015	; and
right, ti	WHEREAS, <u>SYNOPSYS</u> , <u>INC.</u> , a corporation field Road, <u>Mountain View</u> , <u>CA 94043-4033</u> , (atle and interest in and to said application and the ention, heretofore conceived, made or discovere fiter termed "said invention"), and in and to any	Thereinafter terme ne invention discled jointly or seve	ed "Assig losed the rally by s	mee"), is desir rein, and in an aid Inventor(s	ous of acquirind to all embodics) (all collective	g the entire ments of ely

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

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- 1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (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 extensions of any of said patents.
- 2. Said Inventor(s) 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 Inventor(s) 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,

PATENT REEL: 035342 FRAME: 0463 infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

- 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 Inventor(s), their respective heirs, legal representatives and assigns.
- Said Inventor(s) hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventor(s) have executed and delivered this instrument to said Assignee as of the dates written below.

Zuo Dai	Date	
	3/16/2015	
Aiqun Cao	Date	
	Date	
	Date	
	Date	

PATENT

REEL: 035342 FRAME: 0464