

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	KARUN SHARMA	03/31/2017
	NIKHIL GARG	03/31/2017
	JUNO JUI-CHUAN LIN	03/31/2017
	SUBHASHIS MANDAL	03/31/2017
	CHANDRA PRAKASH MANGLANI	03/31/2017
	KANAKA RAJU GORLE	03/31/2017
	HENRY YU	03/30/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	CADENCE DESIGN SYSTEMS, INC.	
<b>Street Address:</b>	2655 SEELY AVE	
<b>City:</b>	SAN JOSE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95134	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15476921	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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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<b>Correspondent Name:</b>	VISTA IP LAW GROUP, LLP (CADENCE)	
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<b>ATTORNEY DOCKET NUMBER:</b>	16PA253US01	
<b>NAME OF SUBMITTER:</b>	TONY NGUYEN	
<b>SIGNATURE:</b>	/TONY NGUYEN/	
<b>DATE SIGNED:</b>	03/31/2017	

PATENT

**Total Attachments: 9**

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## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, Karun Sharma, Nikhil Garg, Juno Jui-Chuan Lin, Subhashis Mandal, Chandra Prakash Manglani, Kanaka Raju Gorle and Henry Yu (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING ROUTING AWARE PLACEMENT FOR AN ELECTRONIC DESIGN for which Utility Application for Letters Patent of the United States of America is being filed herewith, and

WHEREAS, Cadence Design Systems, Inc., a corporation organized and existing under and by virtue of the laws of the state of Delaware and having its principal place of business at 2655 Seely Avenue, San Jose, California 95134 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any provisional from which priority is claimed, continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the same may be granted, including all priority rights under any international conventions or treaties; and ASSIGNORS hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof, to issue said patents to ASSIGNEE, its successors and assigns, in accordance with this Assignment.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with

all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign country, which may be necessary or desirable to carry out the purposes thereof.

[1]

03/31/2017

Date

Karun Sharma

Karun Sharma

ASSIGNMENT

Atty. Dkt. No.: 16PA253US01

[2]

31 March 2017

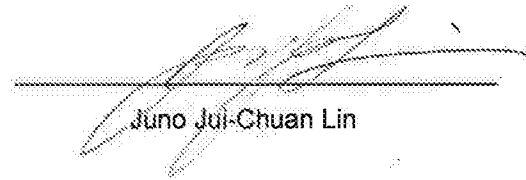
Date

Nikhil

Nikhil Garg

[3]

March 31, 2017  
Date

  
Juno Jui-Chuan Lin

ASSIGNMENT

Atty. Dkt. No.: 16PA253US01

[4] 31 MARCH 2017

Date

Subhashis Mandal

Subhashis Mandal



[5] 31 March 2017  
Date

Chandra Prakash Manglani  
Chandra Prakash Manglani

ASSIGNMENT

Att'y. Dkt. No.: 16PA253US01

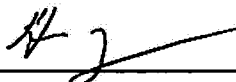
[6] 31 MARCH 2017

Date

G. Kanaka Raju

Kanaka Raju Gorle

[7] 3/30/2017  
Date

  
Henry Yu