

## 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	12/22/2016
YU LIU	12/23/2016
SUBHASHIS MANDAL	12/21/2016
KANAKA RAJU GORLE	12/21/2016
JEFF TARALDSON	12/22/2016
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<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>	15396156
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	16PA240US01
<b>NAME OF SUBMITTER:</b>	TONY NGUYEN
<b>SIGNATURE:</b>	/TONY NGUYEN/
<b>DATE SIGNED:</b>	12/30/2016
<b>Total Attachments: 7</b>	
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## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, Karun SHARMA, Yu LIU, Subhashis MANDAL, Kanaka Raju GORLE and Jeff TARALDSON (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled METHOD, SYSTEM, AND COMPUTER PROGRAM PRODUCT FOR IMPLEMENTING PLACEMENT USING ROW TEMPLATES FOR AN ELECTRONIC DESIGN for which Utility Application for Letters Patent of the United States of America is 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.

ASSIGNMENT

App. No.: 1SPA240US01

(1) 12/22/2016  
Date

Karun Sharma  
Karun SHARMA

[2] 12/23/2016  
Date

  
Yu LIU

ASSIGNMENT

Atty. Dkt. No.: 16PA240US01

[3] 12/21/2016  
Date

Subhashis Mandal  
Subhashis MANDAL

[4] 12/21/2016  
Date

G. Kanaka Raju  
Kanaka Raju GORLE

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Atty. GEN. No. 16PA240US01

(S) 12-22-2016  
Date

  
JEFF TARALDSON