

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOUGLAS WARD THOMAS	02/02/2015
SHINICHI IKETANI	02/02/2015
DALE KERSTEN	02/02/2015
RECEIVING PARTY DATA	
Name:	SANMINA CORPORATION
Street Address:	2700 NORTH FIRST STREET
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95134
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16253025
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ATTORNEY DOCKET NUMBER:	SAN-1044DIV
NAME OF SUBMITTER:	HEIDI L. EISENHUT
SIGNATURE:	/Heidi Eisenhut/
DATE SIGNED:	01/22/2019
Total Attachments: 2	
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ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Douglas Ward THOMAS, an individual and citizen of the USA, residing in the city of Pacific Grove, California, USA;

Shinichi Iketani, an individual and citizen of Japan, residing in the city of Sunnyvale, California, USA; and

Dale Kersten, an individual and citizen of the USA, residing in the city of Ben Lomond, California, USA;

have invented certain new and useful improvements disclosed in United States Patent Application No. 14/603,191, filed January 22, 2015, hereby sell, assign, and transfer the above invention to:

SANMINA CORPORATION

having a principal place of business at 2700 North First Street, San Jose, California 95134 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the applications for the United States patent that have been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and are entitled:

METHODS OF FORMING HIGH ASPECT RATIO PLATED THROUGH HOLES AND HIGH PRECISION STUB REMOVAL IN A PRINTED CIRCUIT BOARD

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries of any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States and/or Patent Cooperation Treaty (PCT) application; and in all rights of priority under the International Convention for the Protection of Industrial Property for every country in the Union; agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith

expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been nor will be made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

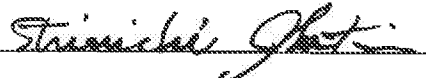
Each Inventor: Please Sign and Date Below:

Date: 02/02/2015

Signed: 

Printed Name: Douglas Ward Thomas

Date: Feb 2, 2015

Signed: 

Printed Name: Shinichi Iketani

Date: 2/2/2015

Signed: 

Printed Name: Dale Kersten