

## 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>
PRANAV RAVAL	03/07/2017
VIJAY MANGTANI	03/07/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALLEGRO MICROSYSTEMS, LLC
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<b>City:</b>	MANCHESTER
<b>State/Country:</b>	NEW HAMPSHIRE
<b>Postal Code:</b>	03103-3353
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16134064
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(781)401-9966
<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>	
<b>Phone:</b>	7814019988
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<b>ATTORNEY DOCKET NUMBER:</b>	ALLEG-624AUS
<b>NAME OF SUBMITTER:</b>	PAUL D. DURKEE
<b>SIGNATURE:</b>	/Paul D. Durkee/
<b>DATE SIGNED:</b>	09/20/2018
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

Whereas we, Pranav Raval and Vijay Mangtani, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: DC-DC CONVERTER HAVING FEEDFORWARD FOR ENHANCED OUTPUT VOLTAGE REGULATION, identified as Attorney Docket No. ALLEG-624PUS, and Client Case No. A-2514, which application was executed on March 7, 2017, and filed on March 8, 2017, and assigned Application No. 15/453,039. In the event that the execution date, filing date, and/or Application No. are not entered above at the time this document is executed, and if such information is deemed necessary, we hereby authorize and request our attorneys at DALY, CROWLEY, MOFFORD & DURKEE, LLP, 354A Turnpike Street, Suite 301A, Canton, MA 02021-2714, to insert above the execution date, filing date, and/or Application No. of said application.

Whereas, Allegro MicroSystems, LLC, a Delaware limited liability company having a place of business at 115 Northeast Cutoff, Worcester, Massachusetts 01606, and which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we, Pranav Raval and Vijay Mangtani,

hereby acknowledge, we each hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, reissue, PCT, re-examination and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent and any provisional applications from which priority is claimed in said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives, assigns, and successors, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent

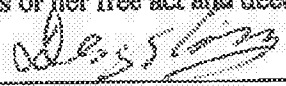
applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, assigns, and successors if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives, assigns, or successors which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries;

In testimony of which we have each executed this Assignment on the date indicated next to our name(s).

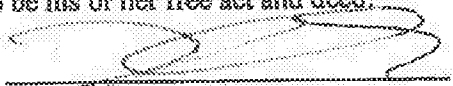
Dated: 3/7/2017

  
Pranav Raval

On this 7 day of 3, 2017, before me appeared Pranav Raval,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he or she acknowledged the same to be his or her free act and deed.

  
First Witness Signature  
Shihong Deng  
First Witness Printed Name

On this 7 day of 3, 2017, before me appeared Pranav Raval,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he or she acknowledged the same to be his or her free act and deed.

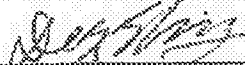
  
Second Witness Signature  
Xibowu Sun  
Second Witness Printed Name

Dated: 3/7/17



Vijay Mangtani

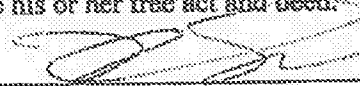
On this 7 day of 3, 2017, before me appeared Vijay Mangtani,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he or she acknowledged the same to be his or her free act and deed.



First Witness Signature

Shihong Deng  
First Witness Printed Name

On this 7 day of 3, 2017, before me appeared Vijay Mangtani,  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he or she acknowledged the same to be his or her free act and deed.



Second Witness Signature

XIAOWEN SUN  
Second Witness Printed Name