

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael C. Doogue</td> <td>01/19/2006</td> </tr> <tr> <td>William P. Taylor</td> <td>01/19/2006</td> </tr> <tr> <td>Vijay Mangtani</td> <td>01/19/2006</td> </tr> </tbody> </table>		Name	Execution Date	Michael C. Doogue	01/19/2006	William P. Taylor	01/19/2006	Vijay Mangtani	01/19/2006		
Name	Execution Date										
Michael C. Doogue	01/19/2006										
William P. Taylor	01/19/2006										
Vijay Mangtani	01/19/2006										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Allegro Microsystems, LLC</td> </tr> <tr> <td>Street Address:</td> <td>115 Northeast Cutoff</td> </tr> <tr> <td>City:</td> <td>Worcester</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01606</td> </tr> </table>		Name:	Allegro Microsystems, LLC	Street Address:	115 Northeast Cutoff	City:	Worcester	State/Country:	MASSACHUSETTS	Postal Code:	01606
Name:	Allegro Microsystems, LLC										
Street Address:	115 Northeast Cutoff										
City:	Worcester										
State/Country:	MASSACHUSETTS										
Postal Code:	01606										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13918075</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13918075						
Property Type	Number										
Application Number:	13918075										
CORRESPONDENCE DATA											
Fax Number: 7814019966 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7814019988 Email: mhw@dc-m.com Correspondent Name: Daly, Crowley, Mofford & Durkee, LLP Address Line 1: 354A Turnpike Street Address Line 2: Suite 301A Address Line 4: Canton, MASSACHUSETTS 02021-2714											
ATTORNEY DOCKET NUMBER:	ALLEG-162CUS										
NAME OF SUBMITTER:	Kermit Robinson										
Signature:	/Kermit Robinson/										

Date:

06/17/2013

Total Attachments: 4

source=TO_PTO_Assignment#page1.tif

source=TO_PTO_Assignment#page2.tif

source=TO_PTO_Assignment#page3.tif

source=TO_PTO_Assignment#page4.tif

ASSIGNMENT

Whereas we, the undersigned, Michael C. Doogue, William P. Taylor, and Vijay Mangtani, hereby have made certain inventions or discoveries (or both) set forth in a patent application of the United States of America entitled ARRANGEMENTS FOR AN INTEGRATED SENSOR, identified as Attorney Docket No. ALLEG-162FUS and Client Case Nos. A-2051 and A-2081, which application was filed on January 20, 2006 and Assigned Application No. 11/325,944. In the event that the filing date and/or Application No. are not entered above at the time we executed this document, 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 filing date and/or Application No. of said application.

Whereas, ALLEGRO MICROSYSTEMS, INC., a Delaware corporation having a place of business at 115 Northeast Cutoff, Worcester, Massachusetts 01615-0036, 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 hereby acknowledge, we hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said United States patent application, any and all other patent applications on said inventions and discoveries in whatsoever countries, including all utility, divisional, renewal, substitute, continuation, reissue and Convention applications based in whole or in part upon said inventions or discoveries, said United States patent application 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;

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;

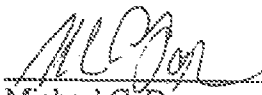
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to transfer said United States application or to issue or transfer any Letters Patent to Assignee based in whole or in part upon said United States application, 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;

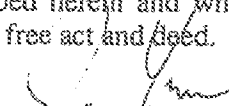
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said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

Dated: 19 JANUARY 2006

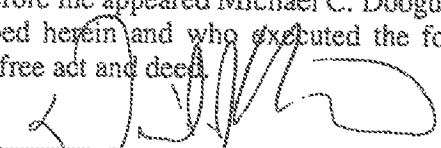

Michael C. Doogue

On this 19 day of January, 2006, before me appeared Michael C. Doogue, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


First Witness Signature

Jonathan Lamarre
First Witness Printed Name

On this 19 day of January, 2006, before me appeared Michael C. Doogue, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Second Witness Signature

David J. Haas
Second Witness Printed Name

Dated: 19 January 2006

William P. Taylor
William P. Taylor

On this 19th day of January, 2006, before me appeared William P. Taylor, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

[Signature]
First Witness Signature


John Cummings
First Witness Printed Name

On this 19th day of JANUARY, 2006, before me appeared William P. Taylor, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

[Signature]
Second Witness Signature

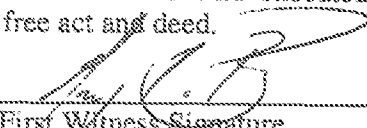
GARY T. PERKINS
Second Witness Printed Name

Dated: 1/19/06



Vijay Mangtani

On this 19 day of January, 2006, before me appeared Vijay Mangtani, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

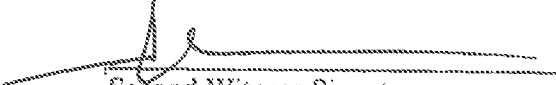


First Witness Signature

LARRY T. PERNA

First Witness Printed Name

On this 19th day of January, 2006, before me appeared Vijay Mangtani, to me known and known to me to be the person described herein and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Second Witness Signature

John Cummings

Second Witness Printed Name

22396.doc