

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>Eric Shoemaker</td> <td>02/29/2012</td> </tr> <tr> <td>Michael C. Doogue</td> <td>02/29/2012</td> </tr> <tr> <td>Andreas P. Friedrich</td> <td>02/07/2012</td> </tr> <tr> <td>Andrea Foletto</td> <td>02/07/2012</td> </tr> </tbody> </table>		Name	Execution Date	Eric Shoemaker	02/29/2012	Michael C. Doogue	02/29/2012	Andreas P. Friedrich	02/07/2012	Andrea Foletto	02/07/2012
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Eric Shoemaker	02/29/2012										
Michael C. Doogue	02/29/2012										
Andreas P. Friedrich	02/07/2012										
Andrea Foletto	02/07/2012										
RECEIVING PARTY DATA											
Name:	Allegro Microsystems, Inc.										
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>13413037</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13413037						
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Application Number:	13413037										
CORRESPONDENCE DATA											
Fax Number:	(781)401-9966										
Phone:	7814019988										
Email:	mhw@dc-m.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
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-310PUS										
NAME OF SUBMITTER:	Kermit Robinson										

CH \$40.00 13413037

Total Attachments: 5

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ASSIGNMENT

Whereas we, the undersigned, Eric Shoemaker, Michael C. Doogue, Andreas P. Friedrich and Andrea Foletto hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: MAGNETIC FIELD SENSOR FOR SENSING ROTATION OF AN OBJECT, identified as Attorney Docket No. ALLEG-310PUS, and Client Case No. A-2203, which application was executed on Feb. 29, 2012, Feb. 29, 2012, Feb. 7, 2012 and Feb. 7, 2012, and filed on March 6, 2012 and assigned Application No. 13/413,037. In the event that the execution date, filing date and/or Application No. are not entered above or are incorrect at the time we executed this document, and if such information is deemed necessary, we hereby authorize and request the 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, Inc., a Delaware Corporation 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 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 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, 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;

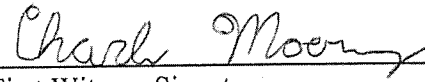
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said 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 as an instrument on the date indicated next to our name(s).

Dated: 2/29/2012


Eric Shoemaker

On this 29 day of February, 2012, before me appeared Eric Shoemaker, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


First Witness Signature

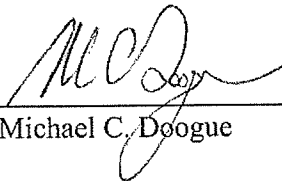
Charles Mooney
First Witness Printed Name

On this 29 day of February, 2012, before me appeared Eric Shoemaker, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Second Witness Signature


Christie Graham
Second Witness Printed Name

Dated: 2/29/2012



Michael C. Doogue

On this 29 day of FEBRUARY, 2012, before me appeared Eric Shoemaker, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



First Witness Signature

Charles Mooney

First Witness Printed Name

On this 29 day of FEBRUARY, 2012, before me appeared Michael C. Doogue, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Second Witness Signature

Christine Graham

Second Witness Printed Name

Dated: 7 February 2012

A. F. A.
Andreas P. Friedrich

On this 7 day of February 2012, before me appeared Andreas P. Friedrich, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

[Signature]
First Witness Signature


MARIE - ADELAIDE LO
First Witness Printed Name

On this 7 day of FEBRUARY, 2012, before me appeared Andreas P. Friedrich, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

[Signature]
Second Witness Signature

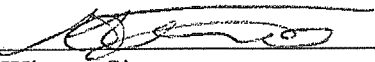
MARCO MARCHI
Second Witness Printed Name

Dated: 7/2/2012



Andrea Foletto

On this 7 day of February, 2012, before me appeared Andrea Foletto, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

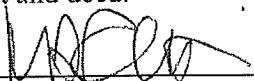


First Witness Signature

MARIE-ADELAIDE LO

First Witness Printed Name

On this 7 day of FEBRUARY, 2012, before me appeared Andrea Foletto, to me known and known to me to be the person described in and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Second Witness Signature

MARCO MARCHI

Second Witness Printed Name

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