

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>Devon Fernandez</td><td>01/15/2009</td></tr><tr><td>William P. Taylor</td><td>01/15/2009</td></tr><tr><td>Michael Morris</td><td>01/15/2009</td></tr><tr><td>P. Karl Scheller</td><td>01/15/2009</td></tr><tr><td>Eric Shoemaker</td><td>01/14/2009</td></tr></tbody></table>	Name	Execution Date	Devon Fernandez	01/15/2009	William P. Taylor	01/15/2009	Michael Morris	01/15/2009	P. Karl Scheller	01/15/2009	Eric Shoemaker	01/14/2009	
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>ALLEGRO MICROSYSTEMS, INC.</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>01615-0036</td></tr></table>	Name:	ALLEGRO MICROSYSTEMS, INC.	Street Address:	115 Northeast Cutoff	City:	Worcester	State/Country:	MASSACHUSETTS	Postal Code:	01615-0036			
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (781)401-9966 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 7814019988													
Email: dms@dc-m.com													
Correspondent Name: Daly, Crowley, Mofford & Durkee, LLP													
Address Line 1: 354A Turnpike Street, Suite 301A													
Address Line 4: Canton, MASSACHUSETTS 02021													
ATTORNEY DOCKET NUMBER:	ALLEG-262PUS												
NAME OF SUBMITTER:	Steven M. Cohen												

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Total Attachments: 7

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A S S I G N M E N T

Whereas we, the undersigned, Devon Fernandez, William P. Taylor, Michael Morris, P. Karl Scheller and Eric Shoemaker hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled DIRECTION DETECTION SENSOR, identified as Attorney Docket No. ALLEG-262PUS, and Client Case No. A-2155, which application was executed on 1/14/09, 1/15/09, 1/15/09, 1/15/09, 1/14/09 and filed on 1/19/09 and Assigned Application No. 12/355,882. In the event that the execution date, 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 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 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 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;

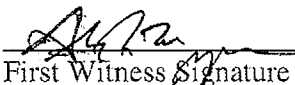
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said 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: 1/15/09



Devon Fernandez

On this 15 day of January, 2009, before me appeared Devon Fernandez, 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

Stephen Wimpenny
First Witness Printed Name

On this 15 day of January, 2009, before me appeared Devon Fernandez, 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

Matthew Draen
Second Witness Printed Name

Dated: 15 January 2009

William P. Taylor
William P. Taylor

On this 15th day of January, 2009, before me appeared William P. Taylor, 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.

Craig S. Petrie
First Witness Signature

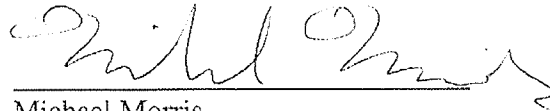
Craig S. Petrie
First Witness Printed Name

On this 15th day of January, 2009, before me appeared William P. Taylor, 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.

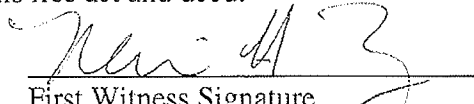
David J. Haas
Second Witness Signature

David J. Haas
Second Witness Printed Name

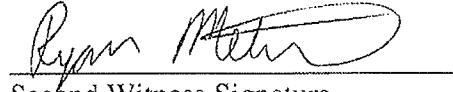
Dated: 1/15/09


Michael Morris

On this 15TH day of JANUARY, 2009, before me appeared Michael Morris, 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
MARVIN H. NG
First Witness Printed Name

On this 15TH day of JANUARY, 2009, before me appeared Michael Morris, 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
Ryan Metivier
Second Witness Printed Name

Dated: Jan 15, 2009

P. Karl Scheller
P. Karl Scheller

On this 15 day of January, 2009, before me appeared P. Karl Scheller, 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.

Stephen Wimpenny
First Witness Signature
Stephen Wimpenny
First Witness Printed Name

On this 15 day of January, 2009, before me appeared P. Karl Scheller, 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.

Matthew Drouin
Second Witness Signature
Matthew Drouin
Second Witness Printed Name

Dated: 1/14/09

Eric A. Shoemaker
Eric Shoemaker

On this 14 day of January, 2009, 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.

Christine Graham
First Witness Signature

Christine Graham
First Witness Printed Name

On this 14 day of January, 2009, 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.

Daniel D. Callen Jr.
Second Witness Signature

Daniel D. Callen Jr.
Second Witness Printed Name

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