**PATENT ASSIGNMENT**

**SUBMISSION TYPE:** NEW ASSIGNMENT

**NATURE OF CONVEYANCE:** ASSIGNMENT

### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Richard Dickinson</td>
<td>05/19/2005</td>
</tr>
<tr>
<td>Michael Doogue</td>
<td>05/19/2005</td>
</tr>
<tr>
<td>Jay Gagnon</td>
<td>05/19/2005</td>
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<tr>
<td>Nirmal Sharma</td>
<td>05/19/2005</td>
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### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Allegro Microsystems, Inc.</th>
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<tr>
<td>Street Address</td>
<td>115 Northeast Cutoff</td>
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<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>
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**PROPERTY NUMBERS Total: 1**

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<tr>
<td>Application Number</td>
<td>11140250</td>
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### CORRESPONDENCE DATA

Fax Number: (781)401-9966

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 7814019988

Email: mhw@dc-m.com

Correspondent Name: Daly, Crowley, Mofford & Durkee, LLP

Address Line 1: 354A Turnpike Street, Suite 301A

Address Line 4: Canton, MA 02021-2714

**ATTORNEY DOCKET NUMBER:** ALLEG-039AUS

**NAME OF SUBMITTER:** Kermit Robinson

Total Attachments: 12

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ASSIGNMENT

Whereas we, the undersigned, Nirmal Sharma, Richard Dickinson, Michael Doogue and Jay Gagnon and hereby have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled CURRENT SENSOR, identified as Attorney Docket No. ALLEG-039AUS and Client Case No. A-2053 which application was executed on May 19, 2005 and filed on May 27, 2005 and Assigned Application No. 11/140,250. 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, 275 Turnpike Street, Suite 101, Canton, MA 02021-2310, 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;

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 on the date indicated next to each of our respective names.
Dated: 5/19/05

Nirmal Sharma

On this 16th day of MAY, 2005, before me appeared Nirmal Sharma, 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.

Kyle Sullivan
First Witness Signature

Kyle Sullivan
First Witness Printed Name

On this 17th day of MAY, 2005, before me appeared Nirmal Sharma, 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.

Elsa Kam Lau
Second Witness Signature

Elsa Kam Lau
Second Witness Printed Name
Dated: __________________________

Richard Dickinson

On this __ day of __________, 2005, before me appeared Richard Dickinson, 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

________________________________
First Witness Printed Name

On this __ day of __________, 2005, before me appeared Richard Dickinson, 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

________________________________
Second Witness Printed Name
Dated: ____________________________  

Michael Doogue

On this _____ day of ____________, 2005, before me appeared Michael 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.

______________________________
First Witness Signature

______________________________
First Witness Printed Name

On this _____ day of ____________, 2005, before me appeared Michael 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

______________________________
Second Witness Printed Name
Dated: May 19, 2005

On this 19th day of May, 2005, before me appeared Jay Gagnon, 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.

A. Ramkumar
First Witness Signature

Ranikumar Adimula
First Witness Printed Name

On this _____ day of __________, 2005, before me appeared Jay Gagnon, 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

Virgil Ararao
Second Witness Printed Name
ASSIGNMENT

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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;

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;
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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: ________________________________

Nirmal Sharma

On this ____ day of ____________, 2005, before me appeared Nirmal Sharma, 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

______________________________
First Witness Printed Name

On this ____ day of ____________, 2005, before me appeared Nirmal Sharma, 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

______________________________
Second Witness Printed Name
Dated: 5-19-2005

Richard Dickinson

On this 19th day of May, 2005, before me appeared Richard Dickinson, 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.

William P. Taylor
First Witness Signature

William P. Taylor
First Witness Printed Name

On this 19th day of May, 2005, before me appeared Richard Dickinson, 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: 5/19/2005

On this 19th day of May, 2005, before me appeared Michael 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.

Michael Doogue

On this 19th day of May, 2005, before me appeared Michael 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.

First Witness Signature

WILLIAM P. TAYLOR
First Witness Printed Name

David J. Haas
Dated: ________________

Jay Gagnon

On this _____ day of __________, 2005, before me appeared Jay Gagnon, 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

_________________________
First Witness Printed Name

On this _____ day of __________, 2005, before me appeared Jay Gagnon, 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

_________________________
Second Witness Printed Name