

1/20/06

01-31-2006

Atty Dkt No.: ALLEG-162PUS

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings



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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Michael C. Doogue  
William P. Taylor  
Vijay Mangtani

2. Name and address of receiving party(ies)

Name: Allegro Microsystems, Inc.

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

1-19-06; 1-19-06; 1-19-06

Execution Date: \_\_\_\_\_

Street Address: 115 Northeast Cutoff

City: Worcester State: MA Zip: 01615-0036

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or patent number(s):

1-19-06; 1-19-06

If this document is being filed together with a new application, the execution date of the application is: 1-19-06

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Daly, Crowley, Mofford & Durkee, LLP

Internal Address: \_\_\_\_\_

Street Address: 354A Turnpike Street, Suite 301A

City: Canton State: MA Zip: 02021-2714

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

50-0845

(Attach duplicate copy of this page if paying by deposit account)

**DO NOT USE THIS SPACE**

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Kermit Robinson 48,734  
Name of Person Signing

[Signature]  
Signature

Jan 20, 2006  
Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

MS Assignment Recordation Services, Director of the U.S. Patent and Trademark Office,  
P. O. Box 1450, Alexandria, VA 22313-1450

01/24/2006 HMARZ11 00000007 11335944

06 FC:8021

40.00 DP

112975 U.S. PTO  
11/335944

012006

## 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-162PUS and Client Case Nos. A-2051 and A-2081, which application was filed on 1-20-06 and Assigned Application No. \_\_\_\_\_ . 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;

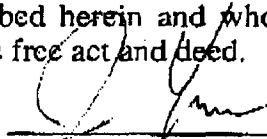
5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said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

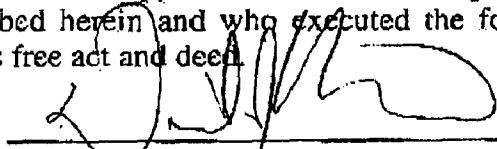
  
\_\_\_\_\_  
Michael C. Doogue

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 19<sup>th</sup> 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 19<sup>th</sup> 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. PERKA  
Second Witness Printed Name

Dated: 1/19/06

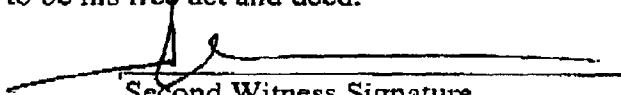
  
\_\_\_\_\_  
Vijay Mangtani

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

GARY L. PECKA  
\_\_\_\_\_  
First Witness Printed Name

On this 19<sup>th</sup> 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