# 504275336 03/16/2017

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4322018

		CORRECTIVE ASSIGNMENT	CORRECTIVE ASSIGNMENT			
NATURE OF CONVEYANCE:		Corrective Assignment to correct the RECEIVING PARTY NAME AND RECEIVING PARTY POSTAL CODE previously recorded on Reel 030624 Frame 0188. Assignor(s) hereby confirms the ASSIGNMENT.				
CONVEYING PARTY D	ATA					
		Name	Execution Date			
MICHAEL C. DOOGUE			01/19/2006			
WILLIAM P. TAYLOR		01/19/2006				
VIJAY MANGTANI			01/19/2006			
RECEIVING PARTY DA	TA					
Name:	ALLEGRO MICROSYSTEMS, INC.					
Street Address:	115 NOF	115 NORTHEAST CUTOFF				
City:	WORCE	WORCESTER				
State/Country:	MASSACHUSETTS					
Postal Code:	01615-0036					
PROPERTY NUMBERS Property Type		Number				
Application Number:	1:	3918064				
CORRESPONDENCE D Fax Number:		781)401-9966				
	e sent to f					
using a fax number, if		the e-mail address first; if that is uns if that is unsuccessful, it will be sen	successful, it will be sent t via US Mail.			
Phone:	provided; 78	<i>if that is unsuccessful, it will be sen</i> 814019988				
Phone: Email:	p <b>rovided;</b> 78 m	<i>if that is unsuccessful, it will be sen</i> 814019988 nmc@dc-m.com	t via US Mail.			
Phone: Email: Correspondent Name:	p <b>rovided;</b> 78 m D	<i>if that is unsuccessful, it will be sen</i> 814019988 nmc@dc-m.com ALY, CROWLEY, MOFFORD & DURK	t via US Mail.			
Phone: Email: Correspondent Name: Address Line 1:	p <b>rovided;</b> 78 m D 38	<i>if that is unsuccessful, it will be sen</i> 814019988 hmc@dc-m.com ALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET	t via US Mail.			
Phone: Email: Correspondent Name:	p <b>rovided;</b> 7: m D 3: S	<i>if that is unsuccessful, it will be sen</i> 814019988 nmc@dc-m.com ALY, CROWLEY, MOFFORD & DURK	<i>t via US Mail.</i> KEE, LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	provided; 7 m D 3 S C	<i>if that is unsuccessful, it will be sen</i> 814019988 mc@dc-m.com ALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET UITE 301A	<i>t via US Mail.</i> KEE, LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NU	provided; 7 m D 3 S C	<i>if that is unsuccessful, it will be sen</i> 814019988 mc@dc-m.com ALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET UITE 301A ANTON, MASSACHUSETTS 02021-2	<i>t via US Mail.</i> KEE, LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER:	provided; 7 m D 3 S C	<i>if that is unsuccessful, it will be sen</i> 814019988 mc@dc-m.com ALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET UITE 301A ANTON, MASSACHUSETTS 02021-2 ALLEG-162BUS	<i>t via US Mail.</i> KEE, LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	provided; 7 m D 3 S C	if that is unsuccessful, it will be sen 814019988 mc@dc-m.com PALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET UITE 301A ANTON, MASSACHUSETTS 02021-2 ALLEG-162BUS KERMIT ROBINSON	<i>t via US Mail.</i> KEE, LLP			
Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NUN NAME OF SUBMITTER: SIGNATURE:	provided; 7 m D 33 S C JMBER:	if that is unsuccessful, it will be sen 814019988 mmc@dc-m.com PALY, CROWLEY, MOFFORD & DURK 54A TURNPIKE STREET UITE 301A ANTON, MASSACHUSETTS 02021-2 ALLEG-162BUS KERMIT ROBINSON /Kermit Robinson/ 03/16/2017	<i>t via US Mail.</i> KEE, LLP			

## PATENT ASSIGNMENT

# Electronic Version v1.1

Stylesheet Version v1.1

		<u></u>		· · · · · · · · · · · · · · · · · · ·	-4. (j)
SUBMISSION TYPE	• • •	NEW ASSIGNMENT			
VATURE OF CONV	URE OF CONVEYANCE: ASSIGNMENT			8	
ONVEYING PART	Y DATA				
		Execution Date			
Michael C. Doogue				01/19/2006	8
Villiam P. Taylor		01/19/2006			
/ijay Mangtani		55 - 55 	01/19/2006		
ECEIVING PARTY	DATA	х. Х.			
lame:	Allegro Micr	osystems, LLC			
Street Address:	115 Northea				
äty:	Worcester				
State/Country:	MASSACHI	USETTS			
Postal Code:	01606		an 1999 1999 - Jan		
PROPERTY NUMBERS Total: 1 Property Type		<u></u>	Number		
Application Number: 139		13918064	5: 52 555		
CORRESPONDENC Fax Number: Correspondence will Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4:	78140 <i>Il be sent via U</i> 78140 mhw@ 1e: Daly, 0 354A <sup>-</sup> Suite 3	<i>S Mail when the fax attempt is i</i> 19988 dc-m.com Crowley, Mofford & Durkee, LLI Tumpike Street	<b>p</b>		
ATTORNEY DOCKET NUMBER:		ALLEG-162BUS			
VAME OF SUBMITTER: Kermit Robinson					18: 18: 14: 14: 14: 14: 14: 14: 14: 14: 14: 14
Signature:		/Kermit Robinson/			

#### PATENT

#### 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  $\frac{J_{6.642} - \sqrt{20}}{2.026}$  and Assigned Application No.  $\frac{J_{6.642} - \sqrt{20}}{2.026}$  and Assigned Application No.  $\frac{J_{6.642} - \sqrt{20}}{2.026}$  and Assigned Application No.  $\frac{J_{6.642} - \sqrt{20}}{2.026}$  and Client Case 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 applications 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;

 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;

### PATENT REEL: 042025 FRAME: 0787

#### PATENT Atty. Dckt. No.: ALLEG-162PUS Client Case Nos.: A-2051 and A-2081

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.

JANUAR 2006 Dated:

Michael C. Dóogue

On this  $\underline{\neg}$  day of  $\underline{\neg} b \land \neg b \land \neg c \land \neg$ , 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

First Witness Printed Name

On this <u>11</u> day of <u>Janwer</u>, 2006, before me appeared Michael C. Doogue, to me known and known to me to be the person described herein and who excluded the foregoing instrument, and he acknowledged the same to be his free act and deed <u>11</u>/<u>1</u>

Second Witness Signature

vid J. Haus Second Witness Printed Name

### PATENT REEL: 042025 FRAME: 0788

PATENT Atty. Dckt. No.: ALLEG-162PUS Client Case Nos.: A-2051 and A-2081

Dated: 19 January 2006

William P. Taylor

On this 19th day of 1000, 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.

First Witness Signature

Jela Cunalag 5 First Witness Printet Name

On this  $1/2^2$  day of  $\underline{TANUARY}$ , 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.

3

Second Witness Signature

Second Witness Printed Name

PATENT REEL: 042025 FRAME: 0789

#### PATENT Atty. Dckt. No.: ALLEG-162PUS Client Case Nos.: A-2051 and A-2081

1/19/06 Dated:

Vijay Mangtani

On this <u>19</u> day of <u>femular</u>, 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 Signature Mines's GARY T

First Witness Printed Name

On this  $\underline{/9}^{}$  day of  $\underline{5}_{abs}$ , 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 n Cum

Second Witness Printed Name

**RECORDED: 03/16/2017** 

22396.doc