

<b>PATENT ASSIGNMENT COVER SHEET</b>
--------------------------------------

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2858992

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
GERARDO A. MONREAL	05/07/2014
BRUNO LUIS UBERTI	05/07/2014
ALLEGRO MICROSYSTEMS ARGENTINA S.A.	05/05/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	Allegro Microsystems, LLC
<b>Street Address:</b>	115 Northeast Cutoff
<b>City:</b>	Worcester
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01606

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	14277218

**CORRESPONDENCE DATA**

**Fax Number:** (781)401-9966  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

**Phone:** 7814019988  
**Email:** mhw@dc-m.com  
**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

<b>ATTORNEY DOCKET NUMBER:</b>	ALLEG-442AUS
<b>NAME OF SUBMITTER:</b>	KERMIT ROBINSON
<b>SIGNATURE:</b>	/Kermit Robinson/
<b>DATE SIGNED:</b>	05/15/2014

**Total Attachments: 10**

source=TO\_PTO\_Assignment#page1.tif  
 source=TO\_PTO\_Assignment#page2.tif  
 source=TO\_PTO\_Assignment#page3.tif  
 source=TO\_PTO\_Assignment#page4.tif

**PATENT**

source=TO\_PTO\_Assignment#page5.tif  
source=TO\_PTO\_Assignment#page6.tif  
source=TO\_PTO\_Assignment#page7.tif  
source=TO\_PTO\_Assignment#page8.tif  
source=TO\_PTO\_Assignment#page9.tif  
source=TO\_PTO\_Assignment#page10.tif

## ASSIGNMENT

Whereas we, Gerardo A. Monreal and Bruno Luis Uberti 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 DETECTING A MAGNETIC FIELD IN ANY DIRECTION ABOVE THRESHOLDS, identified as Attorney Docket No. ALLEG-442AUS, and Client Case No. A-2339, which application was executed on May 7, 2014, and filed on May 14, 2014, and assigned Application No. 14/272,218. In the event that the execution date, filing date, and/or Application No. are not entered above at the time this document is executed, 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 Argentina S.A., a company registered in Argentina and having a place of business at Tronador 4890 1<sup>st</sup> Floor, Buenos Aires, Argentina may have certain rights in the above identified inventions or discoveries;

Whereas, Allegro MicroSystems, LLC, a Delaware limited liability company 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, Gerardo A. Monreal and Bruno Luis Uberti, and Allegro MicroSystems Argentina by signature of Ravi Vig hereby acknowledge, we each 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;

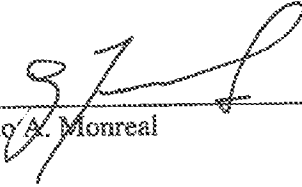
4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee 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;

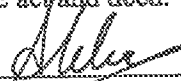
6. Warrant that Ravi Vig, Vice President of Allegro MicroSystems Argentina, is authorized to act on behalf of, and to bind Allegro MicroSystems Argentina.

In testimony of which we have each executed this Assignment on the date indicated next to our name(s).

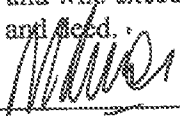
Dated: May 7<sup>th</sup> 2014

  
\_\_\_\_\_  
Gerardo A. Monreal


On this 7 day of May, 2014, before me appeared Gerardo A. Monreal,  
Day Month Year  
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  
ALEJANDRO M. LORA  
\_\_\_\_\_  
First Witness Printed Name

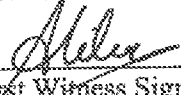
On this 7 day of May, 2014, before me appeared Gerardo A. Monreal,  
Day Month Year  
to me known and known to me to be the person described in and who executed the foregoing  
instrument, and he acknowledged the same to be his free act and deed.

  
\_\_\_\_\_  
Second Witness Signature  
MANUEL ROJAS  
\_\_\_\_\_  
Second Witness Printed Name

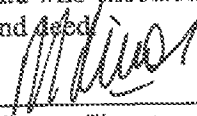
Dated: May 7<sup>th</sup>, 2014

  
\_\_\_\_\_  
Bruno Luis Uberti

On this 7 day of May, 2014, before me appeared Bruno Luis Uberti,  
Day Month Year  
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  
ALEJANDRO MILETI  
\_\_\_\_\_  
First Witness Printed Name

On this 7 day of May, 2014, before me appeared Bruno Luis Uberti,  
Day Month Year  
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  
MANUEL RIVAS  
\_\_\_\_\_  
Second Witness Printed Name

Dated: .....

.....  
Allegro MicroSystems Argentina S.A.  
By: Ravi Vig  
In his capacity as Vice President of  
Allegro Microsystems Argentina S.A.

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me appeared Ravi Vig, to me known  
Day Month Year  
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 \_\_\_\_\_, \_\_\_\_\_, before me appeared Ravi Vig, to me known  
Day Month Year  
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

## ASSIGNMENT

Whereas we, Gerardo A. Monreal and Bruno Luis Uberti 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 DETECTING A MAGNETIC FIELD IN ANY DIRECTION ABOVE THRESHOLDS, identified as Attorney Docket No. ALLEG-442AUS, and Client Case No. A-2339, which application was executed on May 7, 2014, and filed on May 14, 2014, and assigned Application No. 14/277,218. In the event that the execution date, filing date, and/or Application No. are not entered above at the time this document is executed, 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 Argentina S.A., a company registered in Argentina and having a place of business at Tronador 4890 1<sup>st</sup> Floor, Buenos Aires, Argentina may have certain rights in the above identified inventions or discoveries;

Whereas, Allegro MicroSystems, LLC, a Delaware limited liability company 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, Gerardo A. Monreal and Bruno Luis Uberti, and Allegro MicroSystems Argentina by signature of Ravi Vig hereby acknowledge, we each 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;

6. Warrant that Ravi Vig, Vice President of Allegro MicroSystems Argentina, is authorized to act on behalf of, and to bind Allegro MicroSystems Argentina.

In testimony of which we have each executed this Assignment on the date indicated next to our name(s).

Dated: .....

.....  
Gerardo A. Monreal

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me appeared Gerardo A. Monreal,  
Day Month Year  
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 \_\_\_\_\_, \_\_\_\_\_, before me appeared Gerardo A. Monreal,  
Day Month Year  
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: \_\_\_\_\_

\_\_\_\_\_  
Bruno Luis Uberti

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me appeared Bruno Luis Uberti,  
Day Month Year  
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 \_\_\_\_\_, \_\_\_\_\_, before me appeared Bruno Luis Uberti,  
Day Month Year  
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 5, 2014

Ravi Vig  
Allegro MicroSystems Argentina S.A.  
By: Ravi Vig  
In his capacity as Vice President of  
Allegro Microsystems Argentina S.A.

On this 5<sup>th</sup> day of May, 2014, before me appeared Ravi Vig, 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 5<sup>th</sup> day of May, 2014, before me appeared Ravi Vig, 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.

Lathene Blye  
Second Witness Signature  
Lathene Blye  
Second Witness Printed Name