503051952 11/07/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3098552

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANDREA FOLETTO	10/28/2014
YANNICK VUILLERMET	10/28/2014
ANDREAS P. FRIEDRICH	10/28/2014
ALLEGRO MICROSYSTEMS EUROPE LTD.	10/27/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14529606

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 using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Using a tax number, if provided; if that is unsuccessful, it will be sent via US Ma

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

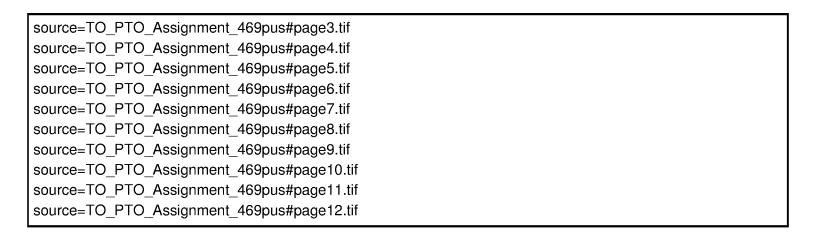
Address Line 4: CANTON, MASSACHUSETTS 02021-2714

ATTORNEY DOCKET NUMBER:	ALLEG-469PUS	
NAME OF SUBMITTER:	KERMIT ROBINSON	
SIGNATURE:	/Kermit Robinson/	
DATE SIGNED:	11/06/2014	

Total Attachments: 12

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PATENT 503051952 REEL: 034124 FRAME: 0195



PATENT REEL: 034124 FRAME: 0196

ASSIGNMENT

Whereas we, Andrea Foletto, Yannick Vuillormet and Andreas P. Friedrich 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 SENSING A MOVEMENT OF A TARGET OBJECT, identified as Attorney Docket No. ALLEG-469PUS, and Client Case No. A-2363, which application was executed on Oct. And assigned Application No. Alleg And Filed on Cat. And assigned Application No. And Application No. Of Said Application.

Whereas Allegro MicroSystems Europe Ltd., a company registered in England and having a place of business at Melita House, 124 Bridge Road, Chertsey Surrey KT16 8LH United Kingdom 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, Andrea Foletto, Yannick Vuillermet and Andreas P. Friedrich, and Allegro MicroSystems Europe Ltd. by signature of Stephenic Mizzi 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, recxamination 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;
- 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;
- 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

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Any. Dokt. No.: ALLEG-469PUS

Client Case No.: A-2363

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, assigns, and successors, 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, assigns, and successors 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, assigns, or successors which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries:
- 6. Warrant that Stephenie Mizzi, Commercial Director of Allegro MicroSystems Europe Ltd., is authorized to act on behalf of, and to bind Allegro MicroSystems Europe Ltd.

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

Atty. Dokt. No.: ALLEG-469PUS

Client Case No.: A-2363

Dated: 28/01/25/2014 Andrea Folesto

On this $\frac{28}{28}$ day of $\frac{100}{100}$, $\frac{100}{100}$, before me appeared Andrea Foletto, 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 $\frac{100}{100}$.

First Witness Printed Name

On this 22 day of 2014, before me appeared Andrea Foletto, 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 Craini

Second Witness Printed Name

Atty. Dokt. No.: ALLEG-469PUS Client Case No.: A-2363

Dated: 18 OchoBer 10-41, Yannick Vullermet

On this LK day of October, 2014, before me appeared Yannick Vuillermet, 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

KEANT Steel 2-2

First Witness Printell Name

On this <u>S</u> day of <u>Shares</u> <u>Shares</u> before me appeared Yannick Vuillermet, 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

FISSICE Virginial Second Witness Printed Name

Atty. Dckt. No.: ALLEG-469PUS Client Case No.: A-2363

Dated: 28 Ocfober 2014	W. 1.25
444596444	Andreas P. Friedrich
On this 28 day of 0.4	Q/4., before me appeared Andreas P. Friedrich,
to me known and known to me to be the perso	n described in and who executed the foregoing
instrument, and he acknowledged the same to	be his free act and died.
	Zerr Wingels Signature
	Wande Stadios
	First Witness Printed Name

On this 22 day of 22 her. 224 before me appeared Andreas P. Friedrich, 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.

Atty. Dokt. No.: ALLEG-469PUS Client Case No.: A-2363

Dated:	Allegro MicroSystems Europe Ltd. By: Stephenie Mizzi In her capacity as Commercial Director of Allegro MicroSystems Europe Ltd.
On thisday of	before me appeared Stephenie Mizzi,
to me known and known to me to be the per instrument, and she acknowledged the same	son described in and who executed the foregoing
	First Witness Signature
	First Witness Printed Name
On this day of lo me known and known to me to be the per instrument, and she acknowledged the same	www., before me appeared Stephenie Mizzi, son described in and who executed the foregoing to be her free act and deed.
	Second Witness Signature
	Second Witness Printed Name

ASSIGNMENT

Whereas we, Andrea Foletto, Yannick Vuillermet and Andreas P. Friedrich 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 SENSING A MOVEMENT OF A TARGET OFFICT, identified as Attorney Docket No. ALLEG-469PUS, and Client Case No. A-2363, which application was executed on Docket No. ALLEG-469PUS, and Client Case No. A-2363, which application was executed on Docket No. Alleg-469PUS, and Client Case No. A-2363, which application was executed on Docket No. Alleg-469PUS, and Client Case No. A-2363, which application was executed on Docket No. Alleg-469PUS, and Client Case No. A-2363, which application was executed on Docket No. Alleg-469PUS, and Client Case No. A-2363, which application No. are not entered above at the time that the execution date, filing date, and request our attorneys at Daly, Crowley, Morrord & Durkee, LLP, 354A Tumpike 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 Europe Ltd., a company registered in England and having a place of business at Melita House, 124 Bridge Road, Chertsey Surrey KT16 8LH United Kingdom 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 auccessors and assigns, is hereinafter called "Assignce," 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, Andrea Foletto, Yannick Vuillermet and Andreas P. Friedrich, and Allegro MicroSystems Europe Ltd. by signature of Stephenic Mizzi 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, reexamination 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;
- 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;
- 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

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Atty. Dokt. No.: ALLEG-469PUS Client Case No.: A-2363

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, assigns, and successors, 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, assigns, and successors 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, assigns, or successors which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries;
- Warrant that Stephenic Mizzi, Commercial Director of Allegro MicroSystems Europe Ltd., is authorized to act on behalf of, and to bind Allegro MicroSystems Europe Ltd.

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



Atty, Dokt. No.: ALLEG-469PUS Client Case No.: A-2363

Dated:		Andres Foletto
On ti	nisday of	before me appeared Andrea Poletto,
o me know	and known to me to be th	e person described in and who executed the foregoing ame to be his free act and deed.
		First Witness Signature
		First Witness Printed Name
On th	iísdsy of	, before me appeared Andrea Foletto,
a ma khown	and known to me to be the	e person described in and who executed the foregoing ame to be his free act and deed.
		Second Witness Signature
		Second Witness Printed Name



Atty. Dokt. No.: ALLEG-469PUS Client Case No.: A-2363

Dated:	Yannick Vuillennet
	before me appeared Yannick Vuillerments on described in and who executed the foregoing to be his free act and deed.
	First Witness Signature
	First Witness Printed Name
	, before me appeared Yannick Vulllermet, on described in and who executed the foregoing be his free act and deed.
-	Second Witness Signature
	Second Witness Printed Name



Atty. Dokt. No.: ALLBG-469PUS Client Case No.: A-2363

Dated:	
	Andreas P. Friedrich
to me known and known to me to be the pers	before me appeared Andreas P. Friedrich
instrument, and he acknowledged the same t	o be his free act and deed.
	First Witness Signature
	First Witness Printed Name
On this day of	, before me appeared Andreas P. Friedrich,
	on described in and who executed the foregoing
	Second Witness Signature
	Samuel Wilman Printed Norma

Atty, Dekt. No.: ALLEG-469PUS

Client Case No.: A-2363

Daned: <u>公子公子公</u>20件

Allegro MicroSystems Europe Ltd.

By: Stephenie Mizzi

In her capacity as Commercial Director of

Allegro MicroSystems Europe Ltd.

On this 27 day of October, 2014, before me appeared Stephenie Mizzi,

to me known and known to me to be the person described in and who executed the foregoing instrument, and she acknowledged the same to be her free act and deed.

First Witness Signature

Eirst Witness Printed Name

On this Q day of CCCCC AX 4. before me appeared Stephenie Mizzi,

to me known and known to me to be the person described in and who executed the foregoing instrument, and she acknowledged the same to be her free sot and deed.

Second Witness Signature

Second Witness Printed Name

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RECORDED: 11/07/2014