502965904 09/08/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3012503

SUBMISSION TYPE:			NEW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY	ΟΑΤΑ						
			Name		Execution Date		
PAOLO CAMPIGLIO						08/08/2014	
ALLEGRO MICROSYSTEMS EUROP			E LTD			07/24/2014	
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RECEIVING PARTY D		N 4"					
Name:		Allegro Microsystems, LLC					
Street Address:		115 Northeast Cutoff					
City:		Worcester					
State/Country:	MASSA	MASSACHUSETTS					
Postal Code:	01606	01606					
PROPERTY NUMBERS					1		
Property Type			Number				
Application Number: 14		1445	2783				
CORRESPONDENCE	ΠΔΤΔ						
		(781)	401-9966				
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•			Y, CROWLEY, MOFFORD & DURKEE, LLP				
			A TURNPIKE STREET				
			TE 301A NTON, MASSACHUSETTS 02021-2714				
Address Line 4:				021-2	/14		
ATTORNEY DOCKET NUMBER:			ALLEG-462AUS				
NAME OF SUBMITTER:			KERMIT ROBINSON				
SIGNATURE:		/Kermit Robinson/					
DATE SIGNED:		09/05/2014					
Total Attachments: 7							
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> PATENT REEL: 033688 FRAME: 0022

ASSIGNMENT

Whereas I, Paolo Campiglio have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: MAGNETORESISTANCE ELEMENT WITH IMPROVED RESPONSE TO MAGNETIC FIELDS, identified as Attorney Docket No. ALLEG-462AUS, and Client Case No. A-2358A, which application was executed on <u>Jul. 22.22</u> <u>29.29.2019</u> <u>Aug. 8</u> <u>2819</u> and filed on <u>Aug.6.2019</u>, and assigned Application No. <u>M/462.282</u>. 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 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 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, Paolo Campiglio, and Allegro MicroSystems Europe Ltd. by signature of Stephenie 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;

2. Authorize Assignce 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 Assignce or otherwise as Assignce 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 Assignce, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

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PATENT REEL: 033688 FRAME: 0024

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 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).

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PATENI Atty. Dekt. No .: ALLEG-462AUS Client Case No.: A-2358A

Pholo Campiglià

Dated: 08.08.2014

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On this <u>08</u> day of <u>08</u>, <u>2018</u>, before me appeared Paolo Campiglio, 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

Yang May-Tia

On this _____ day of _____, 2224, before me appeared Paolo Campiglio,

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 <u>REVDELLCT Raphae</u> Second Witness Printed Name

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PATENT REEL: 033688 FRAME: 0025

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PATENT

ASSIGNMENT

Whereas I, Paolo Campiglio have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitied: MAGNETORESISTANCE ELEMENT WITH IMPROVED RESPONSE TO MAGNETIC FIELDS, identified as Attorney Docket No. ALLEG-462AUS, and Client Case No. A-2358A, which application was executed on J_{ul} . 22 22 27 27 20 40, A_{us} , x_{i}^{as} , and filed on A_{us} , a_{us} ,

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, Paolo Campiglio, and Allegro MicroSystems Europe Ltd. by signature of Stephenie 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 Assignce 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 Assignce or otherwise as Assignce 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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PATENT Atty. Dokt. No.: ALLEG-462AUS Client Case No.: A-2358A

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).



PATENT REEL: 033688 FRAME: 0027

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PATENT Atty. Dokt. No.: ALLEG-462AUS Client Case No.: A-2358A

Dated;

Paolo Campiglio

On this _____ day of _____, ___, before me appeared Paolo Campiglio, 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 Paolo Campiglio,

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

PATENT REEL: 033688 FRAME: 0028

PATENT Atty. Dekt. No.: ALLEG-462AUS Client Case No.: A-2358A

Dated; 24-3CMA 2010

Allegfo MicroSystems Europe Ltd. By: Stephenie Mizzi In her capacity as Commercial Director of Allegro MicroSystems Europe Ltd.

On this 24 day of 324, 304, 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 get and deed.

<u>HCqpa.d</u> First Witness Signature

First Witness Printed Name TRACEY SHEPPARD

On this 24 day of <u>Toby</u>, 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.

<u>ZEFOZEC</u> Second Witness Signature

Second Witness Printed Name ENLA FORT.

Document in ProLaw

RECORDED: 09/08/2014