

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5827550

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PAOLO CAMPIGLIO	11/14/2019
AMAL HAMDACHE	11/14/2019
ALLEGRO MICROSYSTEMS FRANCE SAS	11/13/2019
ALLEGRO MICROSYSTEMS EUROPE LIMITED	11/13/2019
CRIVASENSE TECHNOLOGIES SAS	11/13/2019
RECEIVING PARTY DATA	
Name:	ALLEGRO MICROSYSTEMS, LLC
Street Address:	955 PERIMETER ROAD
City:	MANCHESTER
State/Country:	NEW HAMPSHIRE
Postal Code:	03103-3353
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16684932
CORRESPONDENCE DATA	
Fax Number:	(781)401-9966
<i>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.</i>	
Phone:	7814019988
Email:	jlm@dc-m.com
Correspondent Name:	DALY, CROWLEY, MOFFORD & DURKEE, LLP
Address Line 1:	ONE UNIVERSITY AVENUE
Address Line 2:	SUITE 201B
Address Line 4:	WESTWOOD, MASSACHUSETTS 02090
ATTORNEY DOCKET NUMBER:	ALLEG-800BUS
NAME OF SUBMITTER:	ANTHONY T. MOOSEY
SIGNATURE:	/Anthony T. Moosey/
DATE SIGNED:	11/18/2019
Total Attachments: 7	

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ASSIGNMENT

Whereas I/we, Paolo Campiglio and Amal Hamdache, have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: DUAL TUNNEL MAGNETORESISTANCE (TMR) ELEMENT STRUCTURE, identified as Attorney Docket No. ALLEG-800BUS, and Client Case No. A-2737, which application was executed on November 13, 2019, November 14, 2019, and filed on November 15, 2019 and assigned Application No. 16/1684,932. 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, One University Avenue, Suite 201B, Westwood, MA 02090, to insert above the execution date, filing date, and/or Application No. of said application.

Whereas Allegro MicroSystems France SAS (herein AMF), a company registered in France and having a place of business at Parc Altaïs, 60 Rue Cassiopée, Batiment B1, 74650 Chavanod, France may have certain rights in the above identified inventions or discoveries;

Whereas Allegro MicroSystems Europe Limited (herein AMEL), 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 CrivaSense Technologies SAS (herein CST), a company registered in France and having a place of business at Lieudit l'Orme des Mersiers, Parc Technologique de Saint Aubin, Batiment Mercury-Bldg. D, 91193 Saint-Aubin, Paris, France, 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 955 Perimeter Road, Manchester, New Hampshire 03103-3353, 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 I/we, Paolo Campiglio and Amal Hamdache, and

AMF, Allegro MicroSystems France SAS, by signature of Robert C. Hunt,
AMEL, Allegro MicroSystems Europe Limited, by signature of Robert C. Hunt, and
CST, CrivaSense Technologies SAS, by signature of Robert C. Hunt,

hereby acknowledge, I/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, PCT, 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, 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:

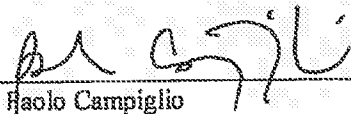
For AMF, Robert C. Hunt, Legal Representative of Allegro MicroSystems France SAS, is authorized to act on behalf of, and to bind Allegro MicroSystems France SAS.

For AMEL, Robert C. Hunt, General Manager of Allegro MicroSystems Europe Limited, is authorized to act on behalf of, and to bind Allegro MicroSystems Europe Limited.


For CST, Robert C. Hunt, Legal Representative of CrivaSense Technologies SAS, is authorized to act on behalf of, and to bind Crivasense Technologies.

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


Dated: 14 11 2019


Paolo Campiglio

On this 14 day of November, 2019, 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 or she acknowledged the same to be his or her free act and deed.


First Witness Signature
Anthony Anthony
First Witness Printed Name


On this 14 day of 14, 2019, 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 or she acknowledged the same to be his or her free act and deed.


Second Witness Signature
GEORGET OLIVIER
Second Witness Printed Name


Dated: 14 November 2019


Amal Hamdache

On this 14 day of November, 2019, before me appeared Amal Hamdache,
Day Month Year
to me known and known to me to be the person described in and who executed the foregoing
instrument, and he or she acknowledged the same to be his or her free act and deed.


First Witness Signature
Pierre Bellier
First Witness Printed Name

On this 14 day of November, 2019, before me appeared Amal Hamdache,
Day Month Year
to me known and known to me to be the person described in and who executed the foregoing
instrument, and he or she acknowledged the same to be his or her free act and deed.


Second Witness Signature
CHRISTINE HODEAU
Second Witness Printed Name

AMF

Dated: 13/11/19

M-H
Allegro MicroSystems France SAS
By: Robert C. Hunt
In his capacity as Legal Representative of
Allegro MicroSystems France SAS

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

[Signature]
First Witness Signature
W. O. [Name]
First Witness Printed Name

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

[Signature]
Second Witness Signature
STANLEY
Second Witness Printed Name

AMBL

Dated: 13 / 11 / 19

M-H
Allegro MicroSystems Europe Limited
By: Robert C. Hunt
In his capacity as General Manager of Allegro
MicroSystems Europe Limited

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

W. O. Rapone
First Witness Signature
W. O. Rapone
First Witness Printed Name

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

W. O. Rapone
Second Witness Signature
W. O. Rapone
Second Witness Printed Name

CST

Dated: 13 / 11 / 19

[Signature]
CrivaSense Technologies SAS
By: Robert C. Hunt
In his capacity as Legal Representative of
CrivaSense Technologies SAS

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

[Signature]
First Witness Signature
W. O. A. P. R. I. N. T. I. O. N.
First Witness Printed Name

On this 13th day of November, 2019, before me appeared Robert C. Hunt,
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.

[Signature]
Second Witness Signature
W. O. A. P. R. I. N. T. I. O. N.
Second Witness Printed Name

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