PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2903670

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------------------|----------------|
| ANDREAS P. FRIEDRICH | 06/12/2014 |
| ANDREA FOLETTO | 06/12/2014 |
| JAY M. TOWNE | 06/12/2014 |
| MICHAEL MORRIS | 06/12/2014 |
| ERIC SHOEMAKER | 06/12/2014 |
| ALLEGRO MICROSYSTEMS EUROPE LTD. | 06/09/2014 |

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: | 14306722 |

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.

Email: dm@dc-m.com

Correspondent Name: DALY, CROWLEY, MOFFORD & DURKEE, LLP

Address Line 1: 354A TURNPIKE STREET

Address Line 2: SUITE 301

Address Line 4: CANTON, MASSACHUSETTS 02021-2714

| ATTORNEY DOCKET NUMBER: | ALLEG-445AUS | |
|-------------------------|-------------------|--|
| NAME OF SUBMITTER: | KERMIT ROBINSON | |
| SIGNATURE: | /Kermit Robinson/ | |
| DATE SIGNED: | 06/18/2014 | |

Total Attachments: 24

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PATENT REEL: 033129 FRAME: 0772

ASSIGNMENT

Whereas we, Andreas P. Friedrich, Andrea Foletto, Jay M. Towne, Michael Morris and Eric Shoemaker have made certain inventions or discoveries (or both) set forth in an application for Letters Patent of the United States of America entitled: SYSTEMS AND METHODS FOR PROVIDING SIGNAL ENCODING REPRESENTATIVE OF A SIGNATURE REGION IN A TARGET, identified as Attorney Docket No. ALLEG-445AUS, and Client Case No. A-2344A, which application was executed on 1000 to and filed on and filed on and filed on the state of the state of the secution 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 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, Andreas P. Friedrich, Andrea Foletto, Jay M. Towne, Michael Morris and Eric Shoemaker, 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 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;

Atty, Dokt. No.: ALLEG-445AUS

Client Case No.: A-2344A

- 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;
- 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-445AUS Client Case No.: A-2344A

| Dated: 6/12/14 | A. F.A. |
|---|--|
| U886: | Andreas P. Friedrich |
| On this <u>12</u> day of <u>June</u> <u>2014</u> | , before me appeared Andreas P. Friedrich |
| to me known and known to me to be the person des instrument, and he acknowledged the same to be hi | scribed in and who executed the foregoing |
| • | Clinistian French |
| | First Witness Signature Christian FEUCH? |
| | First Witness Printed Name |
| | |
| On this 12 day of June 2014 | f before me appeared Andreas P. Friedrich, |
| to me known and known to me to be the person des | cribed in and who executed the foregoing |
| instrument, and he acknowledged the same to be hi | s free and and deed. |
| | Second Winness Jignature |
| | Second Witness Printed Name |

Atty, Dokt. No.: ALLEG-445AUS

Client Case No.: A-2344A

Dated: 6/12/14

Andrea Poletto

On this <u>12</u> day of <u>lone</u>, <u>2014</u>, 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.

Uvalian Frucht

First Witness Signature

Christian FEUCHT

First Witness Printed Name

On this 2 day of Jule, 3014, 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.

Atty, Dekt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Deted: | Jay M. Towne |
|-----------------------|--|
| On this day of,,,,,,, | cribed in and who executed the foregoing |
| | First Witness Signature |
| | First Witness Printed Name |
| On this day of,,,,,, | cribed in and who executed the foregoing |
| | Second Witness Signature |
| | Second Witness Printed Name |

Atty, Dckt, No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | | Michael Morris |
|--------------------|----------------------|---|
| en ma known and ki | nown to me to be the | , before me appeared Michael Morris, person described in and who executed the foregoing me to be his free act and deed. |
| | | First Witness Signature |
| | | First Witness Printed Name |
| es me transmand ki | nown to me to be the | before me appeared Michael Morris, person described in and who executed the foregoing me to be his free act and deed. |
| | | Second Witness Signature |
| | | Second Witness Printed Name |

PATENT Arty, Dekt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Eric Shoemaker |
|---------------------|---|
| On this day of, | scribed in and who executed the foregoing |
| | First Witness Signature |
| | First Witness Printed Name |
| On this day of,,,,, | scribed in and who executed the foregoing |
| | Second Witness Signature |
| | Second Witness Printed Name |

Atty, Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Allegro MicroSystems Europe Ltd. By: Stephenie Mizzi In her capacity as Commercial Director of Allegro MicroSystems Europe Ltd. |
|---|---|
| On this day of Day day of to me known and known to me to be the p instrument, and she acknowledged the sar | ,, before me appeared Stephenie Mizzi, serson described in and who executed the foregoing ne to be her free act and deed. |
| | First Witness Signature |
| | First Witness Printed Name |
| On thisday of to me known and known to me to be the p instrument, and she acknowledged the san | , before me appeared Stephenie Mizzi, verson described in and who executed the foregoing ne to be her free act and deed. |
| | |
| | Second Witness Signature |

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ASSIGNMENT

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, Andreas P. Friedrich, Andrea Foletto, Jay M. Towne, Michael Morris and Eric Shoemaker, 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, rewamination 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;

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Atty. Dokt. No.: ALLEG-445AUS

Client Case No.: A-2344A

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 entirely as the same could have been made; and particularly to execute and deliver to Assignee 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;
- 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).

| Dated: | Andreas P. Friedrich |
|-----------------|--|
| On this day of | , before me appeared Andreas P. Friedrich, cribed in and who executed the foregoing a free act and deed. |
| | First Witness Signature |
| | First Witness Printed Name |
| On this day of, | |
| | Second Witness Signature |
| | Second Witness Printed Name |

Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Andrea Foletto |
|--|--|
| On this day of,,,,,,, | before me appeared Andrea Foletto, described in and who executed the foregoing he his free act and deed. |
| | First Witness Signature |
| | First Witness Printed Name |
| On thisday of, to me known and known to me to be the perso instrument, and he acknowledged the same to | , before me appeared Andrea Foletto, Year n described in and who executed the foregoing be his free act and deed. |
| | Second Witness Signature |
| | Second Witness Printed Name |

PATENT Atty. Dckt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Jay M. Rowne |
|--|---|
| On this day of Vol 2019 Year to me known and known to me to be the person descinstrument, and he acknowledged the same to be his | subed in and and executed are the source. |
| On this 12 day of June 2014 The Month Year to me known and known to me to be the person des instrument, and he acknowledged the same to be his | cubed in and and executed my texasions |

Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: 12-700-2014 | Alchael Morris |
|--|--|
| On this 12 day of 300 this 2014 to me known and known to me to be the person definitionment, and he acknowledged the same to be him | scuped in and who executed air revenue |
| On this 12 day of 3000, 7210 Mooth Year to me known and known to me to be the person de instrument, and he acknowledged the same to be h | SCUDED IN AND WID CACCOURT THE THE STORE |

Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: June 12, 2014 | Eric Shoemaker |
|---|--------------------------|
| On this <u>là</u> day of <u>Nove</u> , <u>2014</u> to me known and known to me to be the person des instrument, and he acknowledged the same to be hi | CHINE IN MICH. |
| On this 12 day of June 2019 The Marie Marie 12 to me known and known to me to be the person de instrument, and he acknowledged the same to be h | SCHOOL HI SHO WHO COLORS |

PATENT Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Allegro MicroSystems Europe Ltd. By: Stephenie Mizzi In her capacity as Commercial Director of Allegro MicroSystems Europe Ltd. |
|-------------------|---|
| On this day of,,, | SOLE BROKEN SEE SEEL |
| | First Witness Signature |
| | First Witness Printed Name |
| On this day of,, | 500 15 5 5 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 |
| | Second Witness Signature |
| | Second Witness Printed Name |
| | |

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ASSIGNMENT

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, Andreas P. Friedrich, Andrea Poletto, Jay M. Towne, Michael Morris and Eric Shoemaker, 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 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;

PATENT Atty, Dokt. No.: ALLEG-445AUS

Client Case No.: A-2344A

- 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 assignment, 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;
- 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 Atty, Dckt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Andreas P. Friedrich |
|------------------|---|
| On this day of | before me appeared Andreas P. Friedrich, vex on described in and who executed the foregoing be his free act and deed. |
| | First Witness Signature |
| | First Witness Printed Name |
| On this day of,, | before me appeared Andreas P. Friedrich, Yes on described in and who executed the foregoing be his free act and deed. |
| et. | Second Witness Signature |
| | Second Witness Printed Name |

Atty, Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | | Andrea Foletto |
|-------------------|-----------------------|---|
| to me known and . | known to me to be the | , before me appeared Andrea Foletto, person described in and who executed the foregoing me to be his free act and deed. |
| | | First Witness Signature |
| | | First Witness Printed Name |
| On this | day of | , before me appeared Andrea Foletto, |
| to me known and l | known to me to be the | person described in and who executed the foregoing me to be his free act and deed. |
| | | Second Witness Signature |
| | | Second Witness Printed Name |

Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Jay M. Towne |
|---|---|
| On this day of | ver before me appeared Jay M. Towne, on described in and who executed the foregoing to be his free act and deed. |
| | First Witness Signature |
| | Pirst Witness Printed Name |
| On thisday of to me known and known to me to be the persinstrument, and he acknowledged the same t | before me appeared Jay M. Towne, Year son described in and who executed the foregoing to be his free act and deed. |
| | Second Witness Signature |
| | Second Witness Printed Name |

Atty, Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

| Dated: | Michael Motris |
|--|---|
| to me in a remove of how were to me to | before me appeared Michael Morris, be the person described in and who executed the foregoing the same to be his free act and deed. |
| | First Witness Signature |
| | First Witness Printed Name |
| On thisday of | , before me appeared Michael Morris, |
| Language and lemourer to me to | be the person described in and who executed the foregoing the same to be his free act and deed. |
| | Second Witness Signature |
| | Carond Witness Printed Name |

PATENT Atty. Dokt. No.: ALLEG-445AUS Client Case No.: A-2344A

PATENT Atty. Dokt. No.: ALLEG-445AUS

Client Case No.: A-2344A

311/54 løgro MicroSystems Europe Ltd.

By: Stephenie Mizzi

In her capacity as Commercial Director of Allegro MicroSystems Europe Ltd.

On this The day of JUNE, 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 Watness-Signature ANNE-MALIE SEAKS

First Witness Printed Name

On this Quantum day of JUAL , WILL, 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.

Second Witness Signature Second Witness Signature Second

Second Witness Printed Name

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