

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3108245

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALLEGRO MICROSYSTEMS EUROPE LIMITED	11/07/2014
<b>RECEIVING PARTY DATA</b>	
<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
<b>PROPERTY NUMBERS Total: 45</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	5684427
Patent Number:	7166807
Patent Number:	6984967
Patent Number:	5708578
Patent Number:	7649325
Patent Number:	7800389
Patent Number:	8729892
Patent Number:	8447556
Patent Number:	8818749
Patent Number:	8058864
Patent Number:	8598867
Patent Number:	8450996
Patent Number:	8680848
Patent Number:	8686720
Patent Number:	8446146
Patent Number:	8736260
Patent Number:	8749005
Application Number:	12360889
Application Number:	12198191
Application Number:	14321347
Application Number:	14061106

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Property Type	Number
Application Number:	13077127
Application Number:	13439094
Application Number:	13226694
Application Number:	13102449
Application Number:	13859245
Application Number:	14259662
Application Number:	13413037
Application Number:	13724080
Application Number:	14250574
Application Number:	13748999
Application Number:	13749776
Application Number:	13424618
Application Number:	13724149
Application Number:	13484501
Application Number:	13484316
Application Number:	13439082
Application Number:	13439074
Application Number:	13479804
Application Number:	13827074
Application Number:	14019090
Application Number:	13871131
Application Number:	61837332
Application Number:	61925446
Application Number:	61920044

**CORRESPONDENCE DATA**

**Fax Number:**

*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.*

**Phone:** 781-401-9988

**Email:** mlf@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

<b>ATTORNEY DOCKET NUMBER:</b>	ALLEG-001PUS
<b>NAME OF SUBMITTER:</b>	JUDITH C. CROWLEY
<b>SIGNATURE:</b>	/Judith C. Crowley/
<b>DATE SIGNED:</b>	11/14/2014

**Total Attachments: 4**

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## CONFIRMATORY ASSIGNMENT

Whereas Allegro MicroSystems Europe Limited, a company registered in England and having a place of business at Melita House, 124 Bridge Road, Chertsey Surrey KT16 8LH United Kingdom (hereinafter "Assignor"), may have certain rights in and to inventions or discoveries (or both) set forth in Letters Patents of the United States of America or other countries or applications therefor, which Patents and applications are listed on Schedule A hereto;

Whereas, Allegro Microsystems, LLC, a Delaware limited liability company having a place of business at 115 Northeast Cutoff, Worcester, Massachusetts 01606, which, together with its successors and assigns (hereinafter "Assignee") is desirous of confirming that it owns all right, title, and interest in and to said inventions and discoveries and said Patents and applications, including the benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby, without reservation:

1. Assigns, transfers and conveys to Assignee its entire right, title and interest in and to said inventions and discoveries, said Patents and applications listed on Schedule A, 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. Authorizes Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;

3. Authorizes and requests 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. Warrants that Assignor has 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 to the extent that any such rights remain with Assignor, that Assignor has good right to assign the same to Assignee without encumbrance;

5. Binds Assignor, Assignor's legal representatives, assigns, and successors to do, upon Assignee's request and at Assignee's expense, and without additional consideration to Assignor or them, all acts reasonably serving to assure that said inventions and discoveries, said patent

applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by Assignor, Assignor's 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 Assignor 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 Assignor's control or in the control of Assignor's legal representatives, assigns, or successors which may be useful for establishing the facts of conceptions, disclosures, and reduction to practice of said inventions and discoveries.

6. Warrants that Stephenie Mizzi, Commercial Director of Allegro MicroSystems Europe Limited, is authorized to act on behalf of, and to bind Allegro MicroSystems Europe Limited.

In testimony of which Assignor has executed this Assignment on the date indicated below.

Dated: 7 November 2014

[Signature]  
Allegro MicroSystems Europe Limited  
By: Stephenie Mizzi  
In her capacity as Commercial Director of  
Allegro MicroSystems Europe Limited

On this 07 day of NOV, 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.

[Signature]  
First Witness Signature  
LOUISE HULLATT  
First Witness Printed Name

On this 07 day of NOVEMBER 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.

[Signature]  
Second Witness Signature  
ENLA FORTE  
Second Witness Printed Name

SCHEDULE A TO CONFIRMATORY ASSIGNMENT

<u>Matter ID Number</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
ALLEG-002PUS	08/588,060	1/19/1996	5,684,427	11/4/1997
ALLEG-039BUS	11/144,970	6/3/2005	7,166,807	1/23/2007
ALLEG-042PUS	10/696,230	10/29/2003	6,984,967	1/10/2006
ALLEG-087AUS	08/678,212	7/11/1996	5,708,578	1/13/1998
ALLEG-196PUS	11/396,566	4/3/2006	7,649,325	1/19/2010
ALLEG-222PUS	11/777,406	7/13/2007	7,800,389	9/21/2010
ALLEG-254PUS	12/360,889	1/28/2009		
ALLEG-258PUS	12/198,191	8/26/2008		
ALLEG-263PUS	13/078,200	4/1/2011	8,729,892	5/20/2014
ALLEG-264AUS	12/706,318	2/16/2010	8,447,556	5/21/2013
ALLEG-264BUS	13/743,451	1/17/2013	8,818,749	8/26/2014
ALLEG-264CUS	14/321,347	7/1/2014		
ALLEG-266PUS	12/425,528	4/17/2009	8,058,864	11/15/2011
ALLEG-281AUS	14/061,106	10/23/2013		
ALLEG-281PUS	12/793,813	6/4/2010	8,598,867	12/3/2013
ALLEG-284PUS	13/077,127	3/31/2011		
ALLEG-287PUS	13/439,094	4/4/2012		
ALLEG-290PUS	13/226,694	9/7/2011		
ALLEG-291PUS	13/102,449	5/6/2011		
ALLEG-299AUS	13/859,245	4/9/2013		
ALLEG-299BUS	14/259,662	4/23/2014		
ALLEG-299PUS	12/793,159	6/3/2010	8,450,996	5/28/2013
ALLEG-300PUS	12/793,163	6/3/2010	8,680,848	3/25/2014
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ALLEG-302PUS	12/793,168	6/3/2010	8,446,146	5/21/2013
ALLEG-310PUS	13/413,037	3/6/2012		
ALLEG-316PUS	13/724,080	12/21/2012		
ALLEG-321AUS	14/250,574	4/11/2014		
ALLEG-321PUS	13/345,021	1/6/2012	8,736,260	5/27/2014
ALLEG-328AUS	13/748,999	1/24/2013		
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ALLEG-328PUS	13/424,618	3/20/2012		
ALLEG-330PUS	13/724,149	12/21/2012		
ALLEG-331PUS	13/484,501	5/31/2012		
ALLEG-338PUS	13/724,170	12/21/2012	8,749,005	6/10/2014
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ALLEG-356PUS	13/439,082	4/4/2012		
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ALLEG-362PUS	13/479,804	5/24/2012		
ALLEG-375PUS	13/827,074	3/14/2013		
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ALLEG-439PUS	13/871,131	4/26/2013		
ALLEG-445PUSP	61/837,332	6/20/2013		
ALLEG-462PUSP	61/925,446	1/9/2014		
ALLEG-466PUSP	61/920,044	12/23/2013		