## 504690101 12/15/2017 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEV	ASSIGNMENT				
NATURE OF CONVEYANCE:		ASS	ASSIGNMENT				
CONVEYING PARTY D	ATA						
		Name	e			Execution D	Date
VIRAG V. CHAWARE						09/19/2017	
AARON COOK						09/19/2017	
CRAIG S. PETRIE						09/19/2017	
RECEIVING PARTY DA	ТА						
Name:	ALLEGRO MICROSYSTEMS, LLC						
Street Address:	115 NO	RTHEAST	CUTOFF				
City:	WORCE	ESTER					
State/Country:	MASSACHUSETTS						
Postal Code:	01606						
PROPERTY NUMBERS	Total: 1						
Property Type			Number		1		
			110111001				
Application Number:		15717002			-		
Application Number:	-	15717002					
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## ASSIGNMENT

Whereas J/we, Virag V. Chaware, Aaron Cook and Craig S. Petrie, 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 WITH SHARED PATH AMPLIFIER AND ANALOG-TO-DIGITAL-CONVERTER, identified as Attorney Docket No. ALLEG-501AUS, and Client Case No. A-2578, which application was executed on 9/19/2017, 9/19/2017 00/ 9/19/2017 , and filed on 9/20/2017, and assigned Application No. 15/710, 13(0)

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 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, 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, 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, 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 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;

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

## PATENT REEL: 044753 FRAME: 0139

PATENT Atty. Dokt. No.: ALLEG-501AUS Client Case No.: A-2578

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:

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

Page 2 of 5

PATENT Atty. Dekt. No.: ALLEG-501AUS Client Case No.: A-2578

Dated: \_\_\_\_\_\_

Virag V. Chaware

On this  $\frac{19}{\frac{19}{100}}$  day of  $\frac{0.9}{\frac{100}{100}}$ ,  $\frac{2017}{100}$ , before me appeared Virag V. Chaware, to me known and known to me to be the person described in and who executed the foregoing

to me known and known to me to be the person described in and who excluded the rangeing instrument, and he or she acknowledged the same to be his or her free act and deed.

itness Signature tonen First Witness Printed Name

On this  $19^{-4/3}$  day of  $9^{-1}$ , 2017, before me appeared Virag V. Chaware, 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.

Cholor charge

Second Witness Signature <u>Soo Chang</u> <u>Chae</u> Second Witness Printed Name

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PATENT REEL: 044753 FRAME: 0141

PATENT Atty. Dekt. No.: ALLEG-501AUS Client Case No.: A-2578

Dated: 9/19/17

Aaron Cook

On this  $\frac{19^{\text{H}}}{1000}$  day of  $\frac{Sept}{Nooth}$ ,  $\frac{2017}{Your}$ , before me appeared Aaron Cook,

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 hea free act and deed.

ness Sispature Witness Printed Name First

On this <u>19th</u> day of <u>9</u>, <u>2017</u>, before me appeared Aaron Cook,  $\frac{19th}{Dw}$  day of <u>100</u>, <u>2017</u>, before me appeared Aaron Cook, 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

Second Witness Signature <u>Soc Chang</u> <u>Chare</u> Second Witness Printed Name

Page 4 of 5

PATENT REEL: 044753 FRAME: 0142

PATENT Atty, Dckt. No .: ALLEG-501AUS Client Case No.: A-2578

Dated: \_\_\_\_\_9(19(17

Craig S. Pétrie

On this  $\frac{14^{1+1}}{100}$  day of  $\frac{Se_{1}+1}{100}$ ,  $\frac{2017}{100}$ , before me appeared Craig S. Petric, 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 has or her-free actiond deed.

MWW itness Signature

Witness Printed Name

On this \_\_\_\_\_ day of \_\_\_\_\_, 2017, before me appeared Craig S. Petrie, 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.

<u>Chultor Chang</u> Second Witness Signature <u>Soo Chang Choe</u> Second Witness Printed Name

614359

PATENT REEL: 044753 FRAME: 0143

**RECORDED: 12/15/2017**