## 503907479 07/08/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3954131

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
ACTIWAVE AB	07/30/2015

### **RECEIVING PARTY DATA**

Name:	CIRRUS LOGIC INTERNATIONAL SEMICONDUCTOR LTD.
Street Address:	WESTFIELD HOUSE
Internal Address:	26 WESTFIELD ROAD
City:	EDINBURGH
State/Country:	UNITED KINGDOM
Postal Code:	EH11 2QB

# **PROPERTY NUMBERS Total: 9**

Property Type	Number
Application Number:	14347097
Application Number:	14359416
Application Number:	15085245
Application Number:	14370994
Application Number:	15189423
Application Number:	15159311
Application Number:	14371020
Application Number:	14405273
Application Number:	14430707

#### **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER: 2273-0

PATENT REEL: 039111 FRAME: 0509

503907479

NAME OF SUBMITTER:	PINA M. CAMPAGNA
SIGNATURE:	/Pina M. Campagna/
DATE SIGNED:	07/08/2016
Total Attachments: 5	
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### PATENT AND TRADE MARK ASSIGNMENT



This Patent and Trade Mark Assignment (this "Assignment"), effective as of 30 July 2015 (the "Effective Date"), is by and between Actiwave AB a company incorporated under the laws of Sweden with address of Svetsarvagen 15, 2tr, 171 41 Solna, Sweden and with reg. no. 556746-0893 ("Assignor") and Cirrus Logic International Semiconductor Ltd., a Scottish limited company having its principal place of business at Westfield House, 26 Westfield Road, Edinburgh, EH11 2QB, United Kingdom and with Company No. SC495735 ("Assignee"). Each of the parties is referred to individually as a "Party," and collectively as the "Parties."

Assignor and Assignee have entered into a Share and Asset Purchase Agreement, effective as of the Effective Date, pursuant to which Assignor has agreed to assign to Assignee the Patents and the Trade Marks (as defined below).

In consideration of the promises and covenants set forth in this Assignment and in the Share and Asset Purchase Agreement, the Parties agree as follows:

- 1. "Patents" means the patents and patent applications listed in the Schedule hereto, and any utility models, supplementary protection certificates, statutory invention registrations, patents and applications for same, and extensions, divisions, continuations, continuations-in-part, reexaminations, and reissues thereof. "Trade Marks" means the trade marks and trade mark applications listed in the Schedule hereto and any extensions and reissues thereof.
- Assignor hereby, absolutely and unconditionally, conveys, sells, assigns, transfers, grants and sets over unto the Assignee, all of the Assignor's right, title and interest and benefit in and to the Patents and the Trade Marks, together with all rights of action, both at law and in equity with respect thereto, including all rights to sue, settle any claim, and collect all damages for any past, present, or future infringement or misappropriation of the Patents and the Trade Marks, the same to be held and enjoyed by the Assignee, its successors and assigns forever, as fully and entirely as the same could have been held and enjoyed by the Assignor if this assignment had not been made and the Assignee does hereby accept such sale, assignment, transfer, grant, conveyance and set over.
- 3. To the extent any provision in this Assignment is inconsistent with the Share and Asset Purchase Agreement, the provisions of the Share and Asset Purchase Agreement will control.

[Signature page follows.]



IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be signed and executed by the undersigned officers duly authorized and effective as of the date set forth above.



**ACTIWAV** 

Name: Thomas Gorcing WHF LEWANVER

Title: BOARD MEMBER BOARD MEMBER

CIRRUS LOGIC INTERNATIONAL SEMICONDUCTOR LTD.

Name: Pedro Andrade

Title: Director

[Notarization page follows.]



STATE OF TEXAS	) ) §§
COUNTY OF TRAVIS	) 88
appeared <b>Pedro Andrade</b> , an authorized <b>Semiconductor Ltd.</b> , a Scottish limited foregoing Patent Assignment to be his volument.	**
WITNESS MY HAND AND SEAL	THIS 20 to DAY OF May, 2016.
CRYSTAL J. LEVESQUE NOTARY PUBLIC-STATE OF TEXAS COMM. EXP. 04-15-2019 NOTARY ID 1158728-6	Notary Public Surgerinted: Crystal J. Levesoue  My Commission Expires: April 15, 2019
a Swedish company, who acknowledged the his voluntary act and deed.  WITNESS MY HAND AND SEAL	tary public in and for Stockholm, Sweden, , an authorized representatives of Actiwave AB., e execution of the foregoing Patent Assignment to be  ** joint  THIS 13th DAY OF June, 2016.
* Mr Ulf Åke Lewander and Mr Thomas Görling	Notary Public
	Printed:Mikael Bratt
	My Commission Expires: October 31, 2017
	at ICUS &

# **SCHEDULE**



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	HEGESTERED	ACTISONIC			1085241	
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18	Maintenance fee due 30/Sept/2016	CONTROL AND PROTECTICAL OF LOUDS PEAKERS	24/Sep/3013	E92901711	EP 13805523.7	2015-13
ents dua	Request Exam. DONE Amerdments due 23/Sept/2015 Hong Kong rang due 18/Aug/2015	MON-LINEAR CONTROL OF LOUDSPEAKERS	08/Dec/2014	CK104365119A	201380030187.3	2015-10
2015, 15	Resp to search report due 82/4/2015, tretruction due 11/12/2015 Annuity foe due 1/31/2016	MATHRATE FLIER SYSTEM	09/Jarv2013	\$P 2803137	EP13735847.9	2015-7
Respons	Annuity fee due 31/Jan/2016 - Response to ESR due 8/24/2015 .	MTEGRATED LOUDS FEAKER ASSEMBLES	09/Jan/2013	55 5803503	£P13/35/1/A	2015-6
	Resp to CA due 28/Aug/2016	NTEGRATED LOCOSPEAKER ASSEMBLES	08/Jul/2014	US20140241419	14/371,009	20156
5 Annuit	HER Response to ESR the 10/6/2015 Annuity fee due 1/31/2016	SYSTEMAND METHOD FOR AUDIO ENCHANCEMENT OF A CONSUMER ELECTROMICS DEVICE	09/Jan/2013	EP 2802890	EP13736388.3	2015-5
nulty due a	Resp to 181 Comm - DONE Annulty due 30/Nov/2016 -	SYSTEMAND METHOD FOR BASS ENHANCEMENT	22/Nov/2012	EP 2783521	F12801491.7	2015-4
	Resp to OA due 22/Jul/2015	SYSTEMAND METHOD FOR BASS ENANCEMENT	20May/2014	US2015/0082973	14/359,416	2015-4
	Annuity due 30/Sa pt/2016	AUDIO PROCESSING AND ENHANCEMENT SYSTEM	25/Sep/2012	EP 2761745	EP12781503.3	2015-2
	Activiave - 2015-10 PCT	NON-LINEAR CONTROL OF LOUDS PEAKERS	07/Jun/2012	~	61/6566/6	1909-15
	Activiave - 2015-7 PCT	MARTHRATE FILTER SYSTEM	10/Jan/2012	×	61/554855	1909-12
	Activave - 2015-7 PCT	MUTHRATE FLIER SYSTEM	12/Jun/2012	*	61,658560	1909-12
	Activave - 2015-6 PCT	NITEGRATED LOUDS FEAKER ASSEMBLES	08/361/2012	*	67,534.67	1000
	Activave - 2015-5 PCT	SYSTEMAND METHOD FOR AUTOD ENHANCEMENT OF A CONSUMER ELECTROMOS DEVICE	09Jan/2012	×	61/58/462	1509-10
	Activave - 2015-4 PCT	SYSTEM AND METHOD FOR BASS BHANCEMENT	22New/2011	×	61/562542	1909-8
	Actiwave-2015-2 PCT	AUDIO PROCESSING AND ENHANCEMENT SYSTEM	26/6ep/2011	*	61,539025	1909-6
fay/2016	Littley/Toreign filing due 22/May/2016	ADAPTIVE RECEVER	22/May/2015	*	62/165,424	2015-16
2016 - Chapt	National stages due 15/Sop/2015 - Cropter I Demand due 19/Cod/2015	NOW-LINEAR CONTROL OF LOUDSHEAKERS	19/Mar/2015		PCTR/82015/021422	2015-14
	PCT Sled	NON-LINEAR CONTROL OF LOUDS FEAKERS	19/1/8/2014	×	61/955,426	2015-14
	Declarations needed	CONTROL AND PROTECTION OF LOUDS PEAKERS	25/kar/2015		14430707	2015-13
016 Nation	Article 19 Arrend due 16/Jul/2015 National stages fied	CONTROL AND PROTECTION OF LOUISIPEAKERS	24/Sep/2013	WO 2014/045123	STUDON SUNDAGE	2015-13
	BCT Fled	CONTROL AND PROTECTION OF LOUISING AFFINE	16/Apr/2013	*	61/812/718	2015-12
	Annuty due 30/Jun/2016	NOV-LINEAR CONTROL OF LOUDS PEAKERS	07/Jun/2013	B72859737	13748087.6	2015-10
	Peraling	NON-LINEAR CONTROL OF LOUISPEAKERS	09/Dec/2014	US2015/0201294A1	14/405/273	20:5-10
	National Stages-filed	NOW-LINEAR CONTROL OF LOUDS PEAKERS	07/30/2013	WO 2013/182901	PCT/82013/001533	2015-10
	Filed-in	Multi-Rate Filter System	09/Jan/2013	CN 104040888 A	201380005196.7	2015-7
fox 19	Aublished pending - first action approx 19 months	MALTHATE FUTER SYSTEM	08/3/8/2014	US2015/0010170A1	14371,020	2015-7
	National Stages filed	MATSPATE FLIER SYSTEM	09/2013	WO 2013/1063/0	PCT/US2013/020740	2015-7
	Exam Requested	PITEGRATED LOUDS PEAKER, ASSEMBLES	09/Jan/2013	CN 104115509 A	201380005007.6	2015-6
	National Stages (Ned	MIEGRATED LOUSE PEAKER ASSEMBLES	09/Jan/2013	WO 2019/106369	PCI/US2013/020739	2015-6
	cram Requested	SYSTEMAND METHOD FOR AUDIO ENHANCEMENT OF A CONSUMER ELECTRONICS DEVICE	09Jan/2013	CN 104040365 A	201380005103	2015-5
ргох 19	Rubished pending - first action approx. 19 months	SYSTEMANE METHOD FOR AUDIO ENHANCEMENT OF A CONSUMER BLECTRONICS DEVICE	06/34/2014	US201500000165A1	14370.994	2015-5
	National Stages filed	ELECTRONICS CEVICE  BLECTRONICS CEVICE	08/Jan/2013	WO 2013/106366	FCT/US2013/020734	2015-5
	Exam Requested	SYSTEM AND NETHOD FOR BASS ENHANCEMENT	22/Nov/2012	CN 104012112 A	201280057549.3	2015-4
	National Stages filed	SYSTEMAND METHOD FOR BASS ENHANCEMENT	22Nov/2012	WO 2013/076223	PCI/EP2012/073418	2015-4
1	Request Exam - FILED	AUDIO PROCESSING AND ENHANCEMENT SYSTEM	26/Sep/2012	CM103988426A	201280058120.6	2015.2
1	Published/pending	AUDIO PROCESSING AND ENFANCEMENT SYSTEM	25/Mar/2014	2014/0233744A1	14/437,097	2015-2
1	National stages filed	AUDIO PROCESSING ARD ENHANCEMENT SYSTEM	28/Sep/2012	W02013/049125	PCT/US2012/05/223	2015%2
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	anteid tipes	116	Flot Issued	Pub. No.	Application No.	Doctor

PATENT REEL: 039111 FRAME: 0515

**RECORDED: 07/08/2016**