

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

EPAS ID: PAT5104942

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LOUIS FREW	07/24/2018
KAPIL SHARMA	06/27/2018
DAVID PAUL SINGLETON	06/27/2018
ANDREW JAMES HOWLETT	06/27/2018
<b>RECEIVING PARTY DATA</b>	
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<b>Street Address:</b>	7B NIGHTINGALE WAY
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<b>State/Country:</b>	UNITED KINGDOM
<b>Postal Code:</b>	EH3 9EG
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15919985
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)391-2173
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<b>ATTORNEY DOCKET NUMBER:</b>	141841.00895-P3450US00
<b>NAME OF SUBMITTER:</b>	MINDY MAYER
<b>SIGNATURE:</b>	/mindy mayer/
<b>DATE SIGNED:</b>	08/22/2018
<b>Total Attachments: 5</b>	

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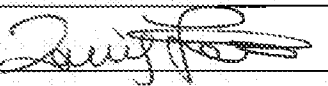
**INVENTOR ASSIGNMENT**

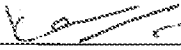
WHEREAS, LOUIS FREW, residing at 15 Carolside Avenue, Clarkston, Glasgow, G767AA, United Kingdom, KAPIL SHARMA, residing at 13/8 Smithfield Street, Midlothian, Edinburgh, EH11 2PG, United Kingdom, DAVID PAUL SINGLETON, residing at 22/4 Roseburn Place, Midlothian, Edinburgh, EH12 5NL, United Kingdom, and ANDREW JAMES HOWLETT, residing at 39 Maidencraig Crescent, Edinburgh, EH4 2BH, United Kingdom, collectively called the "Assignors," have made the invention described in the United States patent application entitled *Modulators*, Attorney Docket No. 141841.00895-P3450US00, filed on March 13, 2018 and assigned Patent Application No. 15/919,985; and

For good and valuable consideration, the receipt and sufficiency of which is acknowledged, I hereby sell, assign, and transfer unto Cirrus Logic International Semiconductor Ltd., a wholly-owned subsidiary of Cirrus Logic, Inc. organized under and pursuant to the laws of Scotland and having its principal place of business at 7B Nightingale Way, Quartermile, Edinburgh, EH3 9EG, United Kingdom, the entire right, title, and interest in and to the invention and all related intellectual property rights (the "Invention") and in and to all applications related to the Invention for Letters Patent in the United States of America, including but not limited to any and all direct and indirect divisions, continuations, continuations-in-part, and reexaminations of said applications and reissues of any resulting patents, and I further authorize and assign all rights to Cirrus Logic International Semiconductor Ltd. to apply for Letters Patent in the United States of America directly in its own name, and to claim priority of the filing date of an application for the earliest-filed patent application(s) for the Invention. Furthermore, for good and valuable consideration, the receipt of which is acknowledged, I hereby also sell, assign, and transfer unto Cirrus Logic International Semiconductor Ltd. the entire right, title, and interest in and to the Invention and in and to all applications related to the Invention for all countries foreign to the United States of America, including but not limited to all rights under any and all international conventions and treaties in respect of the Invention and the applications for Letters Patent, utility models, utility patents, design patents, supplementary protection certificates, patent certificates, and all similar protections in all countries foreign to the United States of America, and I further authorize and assign all rights to Cirrus Logic International Semiconductor Ltd. to apply for Letters Patent, utility models, utility patents, and patent certificates in all countries foreign to the United States directly in its own name, and to claim priority of the filing date of an application for the earliest-filed patent application(s) for the Invention under the provisions of any and all laws, international conventions, treaties, or otherwise.

I hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent in the United States of America upon the aforesaid application, and any application related to the aforesaid application in the United States of America, to Cirrus Logic International Semiconductor Ltd., for the sole use and benefit of Cirrus Logic International Semiconductor Ltd., its successors, assigns, and legal representatives, to the full end of the term for which the Letters Patent in the United States of America may be granted, the same as they would have been held and enjoyed by me had this assignment not been made. I hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to Cirrus Logic International Semiconductor Ltd.

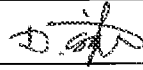
I agree that, when requested, I will, without charge to Cirrus Logic, Inc. or its subsidiaries, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient for securing and maintaining any and all patent protection (as described above) for the Invention in any and all countries and for respectively vesting title thereto in Cirrus Logic International Semiconductor Ltd., its successors, assigns, and legal representatives or nominees. To the maximum extent allowed by law, I hereby irrevocably designate and appoint Cirrus Logic International Semiconductor Ltd. and its duly authorized officers and agents, or Cirrus Logic International Semiconductor Ltd.'s applicable designee, as my agents and attorneys-in-fact to act for and on my behalf and instead of me to sign all papers, take all rightful oaths, and do all acts described in the foregoing sentence should I refuse or become otherwise unavailable to do so.

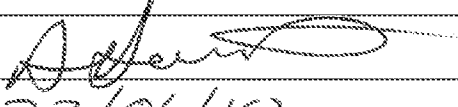
<b>Name of First Inventor</b>	<b>LOUIS FREW</b>
<b>Signature of First Inventor</b>	
<b>Date</b>	<b>24-07-2018</b>

Name of Second Inventor	KAPIL SHARMA
Signature of Second Inventor	
Date	27/06/2018

*Inventor Assignment*  
*Page 4 of 5*

*Attorney Docket No. 141841.00895-P3450US00*

<b>Name of Third Inventor</b>	<b>DAVID PAUL SINGLETON</b>
<b>Signature of Third Inventor</b>	
<b>Date</b>	27/6/18

Name of Fourth Inventor	ANDREW JAMES HOWLETT
Signature of Fourth Inventor	
Date	27/06/18