

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HITTITE MICROWAVE NORWAY AS	01/15/2014
RECEIVING PARTY DATA	
Name:	HITTITE MICROWAVE CORPORATION
Street Address:	2 ELIZABETH DRIVE
City:	CHELMSFORD
State/Country:	MASSACHUSETTS
Postal Code:	01824
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13498513
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ATTORNEY DOCKET NUMBER:	HMP-02201 NORWAY TO US
NAME OF SUBMITTER:	DENISE M. MAHONEY
SIGNATURE:	/DENISE M. MAHONEY/
DATE SIGNED:	04/30/2014
Total Attachments: 5	
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PATENT ASSIGNMENT

WHEREAS, Hittite Microwave Norway AS, a Norwegian company, with offices at Vestre Rosen 81, N-7075 Tiller, Norway ("ASSIGNOR") owns certain patents, patent applications, and/or registrations, as listed in Exhibit A attached hereto and incorporated herein by this reference ("PATENTS"); and

WHEREAS, Hittite Microwave Corporation, a Delaware corporation, with offices at 2 Elizabeth Drive, Chelmsford, MA 01824 ("ASSIGNEE"), desires to acquire all of the right, title, and interest of ASSIGNOR in, to, and under the PATENTS;

WHEREAS, ASSIGNOR and ASSIGNEE have entered into a certain Intellectual Property Assignment executed on even date herewith (the "Agreement"), assigning, among other things, all right, title, and interest in and to the PATENTS from ASSIGNOR to ASSIGNEE;

Now, THEREFORE, for good and valuable consideration paid by ASSIGNEE to ASSIGNOR, the receipt and sufficiency of which hereby is acknowledged, effective as of the closing of the transaction contemplated by the Agreement, ASSIGNOR does hereby sell, assign, transfer, and convey unto ASSIGNEE and the successors, assigns, and legal representatives of the ASSIGNEE its entire right, title, and interest for the United States and its territorial possessions and in all foreign countries, in and to the PATENTS, including all divisions, continuations, continuations-in-part, reexaminations, substitutions, reissues, extensions, and renewals of the PATENTS (and the right to apply for any of the foregoing); all rights to causes of action and remedies related thereto (including, without limitation, the right to sue and recover damages for past, present, or future infringement, misappropriation, or violation of rights related to the foregoing); and any and all other rights and interests arising out of, in connection with, or in relation to the PATENTS.

IN WITNESS WHEREOF, the parties have caused this Patent Assignment to be executed as of January 15, 2014.

HITTITE MICROWAVE CORPORATION

HITTITE MICROWAVE AS

By: Rick D. Hass

By: Antonio Visconti

Name: Rick D. Hass

Name: Antonio Visconti

Title: President & Chief Executive Officer

Title: Director

Exhibit A

Patents and Patent Applications

Country	Patent/Application No.	Title	Filing Date
US	61/632244	A 76dB SNDR 500MHz Sampling Rate 5th Order Continuous Time $\Delta\Sigma$ Modulator With 10MHz Bandwidth IN 0.18 μ m CMOS	January 20, 2012
US	8593318	Continuous Time Delta Sigma Analog to Digital Converter with Mitigation bit shifting Multiplex Array	July 9, 2012
US	13/542,691	Continuous Time Delta Sigma Converter having a VCO based Quantizer	July 6, 2012
US	8279006	LOW NOISE AMPLIFIER	October 23, 2008
WO	IB08/003848	LOW NOISE AMPLIFIER	October 23, 2008
US	60/987118	LOW NOISE AMPLIFIER	November 12, 2007
EP	08869749.5	LOW NOISE AMPLIFIER	October 23, 2008
DE	08869749.5	LOW NOISE AMPLIFIER	October 23, 2008
GB	08869749.5	LOW NOISE AMPLIFIER	October 23, 2008
US	8344803	VARIABLE GAIN AMPLIFIER	October 23, 2008
WO	IB08/003842	VARIABLE GAIN AMPLIFIER	October 23, 2008
US	60/986648	VARIABLE GAIN AMPLIFIER	November 9, 2007
EP	08868706.6	VARIABLE GAIN AMPLIFIER	October 23, 2008
US	8217824	ANALOG-TO-DIGITAL CONVERTER TIMING CIRCUITS	December 10, 2008
WO	IB08/003947	ANALOG-TO-DIGITAL CONVERTER TIMING CIRCUITS	December 10, 2008
US	61/013498	ANALOG-TO-DIGITAL CONVERTER TIMING CIRCUITS	December 13, 2007
EP	08870833.4	ANALOG-TO-DIGITAL CONVERTER TIMING CIRCUITS	December 10, 2008
DE	08870833.4	ANALOG-TO-DIGITAL CONVERTER TIMING CIRCUITS	December 10, 2008
GB	08870833.4	ANALOG-TO-DIGITAL CONVERTER	December 10, 2008

Country	Patent/Application No.	Title	Filing Date
		TIMING CIRCUITS	
US	8456236	MULTIPLE INPUT VARIABLE GAIN AMPLIFIER	May 11, 2009
WO	IB09/005559	MULTIPLE INPUT VARIABLE GAIN AMPLIFIER	May 11, 2009
US	61/054331	MULTIPLE INPUT VARIABLE GAIN AMPLIFIER	May 19, 2008
EP	09750153.0	MULTIPLE INPUT VARIABLE GAIN AMPLIFIER	May 11, 2009
US	13/389663	ADC WITH ENHANCED AND/OR ADJUSTABLE ACCURACY	August 9, 2010
WO	IB10/002283	ADC WITH ENHANCED AND/OR ADJUSTABLE ACCURACY	August 9, 2010
CN	201080035678.3	ADC WITH ENHANCED AND/OR ADJUSTABLE ACCURACY	August 9, 2010
US	61/232978	ADC WITH ENHANCED AND/OR ADJUSTABLE ACCURACY	August 11, 2009
EP	10763426.3	ADC WITH ENHANCED AND/OR ADJUSTABLE ACCURACY	August 9, 2010
US	13/498513	INPUT CONFIGURATION FOR ANALOG TO DIGITAL CONVERTER	August 23, 2010
WO	IB10/002307	INPUT CONFIGURATION FOR ANALOG-TO-DIGITAL CONVERTER	August 23, 2010
CN	201080042959.1	INPUT CONFIGURATION FOR ANALOG-TO-DIGITAL CONVERTER	August 23, 2010
US	61/246213	INPUT CONFIGURATION FOR ANALOG-TO-DIGITAL CONVERTER	September 28, 2009
EP	10765843.7	INPUT CONFIGURATION FOR ANALOG-TO-DIGITAL CONVERTER	August 23, 2010
US	13/504685	CALIBRATION SCHEME FOR ANALOG-TO-DIGITAL CONVERTER	August 24, 2010
WO	IB10/002267	CALIBRATION SCHEME FOR ANALOG-TO-DIGITAL CONVERTER	August 24, 2010
CN	201080048688.0	CALIBRATION SCHEME FOR ANALOG-TO-DIGITAL CONVERTER	August 24, 2010
US	61/256130	CALIBRATION SCHEME FOR ANALOG-	October 29, 2009

Country	Patent/Application No.	Title	Filing Date
		TO-DIGITAL CONVERTER	
EP	10779035.4	CALIBRATION SCHEME FOR ANALOG-TO-DIGITAL CONVERTER	August 24, 2010
US	13/522220	CALIBRATION AND COMPENSATION METHOD AND APPARATUS FOR RESISTIVE SENSOR MEASUREMENT BRIDGE	November 5, 2010
WO	IB10/003014	CALIBRATION AND COMPENSATION METHOD AND APPARATUS FOR RESISTIVE SENSOR MEASUREMENT BRIDGE	November 5, 2010
US	61/295357	CALIBRATION AND COMPENSATION METHOD AND APPARATUS FOR RESISTIVE SENSOR MEASUREMENT BRIDGE	January 15, 2010
US	8344920	METHODS AND APPARATUS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS	September 29, 2011
WO	IB12/001868	METHODS AND APPARATUS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS	September 24, 2012
TW	101135604	METHODS AND APPARATUS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS	September 27, 2012
US	61/598509	METHOD AND APPARATUS FOR DIGITAL CALIBRATION OF ANALOG-TO-DIGITAL CONVERTERS HAVING MULTIPLE CHANNELS	February 14, 2012
US	13/766363	METHODS AND APPARATUS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS HAVING MULTIPLE CHANNELS	February 13, 2013
WO	IB13/000671	METHODS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS HAVING MULTIPLE CHANNELS	February 14, 2013
TW	102105582	METHODS AND APPARATUS FOR CALIBRATING PIPELINE ANALOG-TO-DIGITAL CONVERTERS HAVING MULTIPLE CHANNELS	February 18, 2013
US	61/614180	DYNAMIC DITHERING METHOD AND APPARATUS	March 22, 2012
US	13/800797	DYNAMIC DITHERING METHOD AND	March 13, 2013

Country	Patent/Application No.	Title	Filing Date
		APPARATUS FOR ANALOG-TO-DIGITAL CONVERTERS	
WO	IB13/001198	DYNAMIC DITHERING METHOD AND APPARATUS FOR ANALOG-TO-DIGITAL CONVERTERS	March 15, 2013
TW	102110063	DYNAMIC DITHERING METHOD AND APPARATUS FOR ANALOG-TO-DIGITAL CONVERTERS	March 21, 2013
US	13/591784	METHODS AND APPARATUS FOR CALIBRATING STAGES IN PIPELINE ANALOG-TO-DIGITAL CONVERTERS	August 22, 2012
WO	IB13/002609	METHODS AND APPARATUS FOR CALIBRATING STAGES IN PIPELINE ANALOG-TO-DIGITAL CONVERTERS	August 15, 2013
TW	102129790	METHODS AND APPARATUS FOR CALIBRATING STAGES IN PIPELINE ANALOG-TO-DIGITAL CONVERTERS	August 20, 2013