

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2773598

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
QUELLAN LLC	03/29/2013
RECEIVING PARTY DATA	
Name:	INTERSIL AMERICAS LLC
Street Address:	1001 MURPHY RANCH ROAD
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035
PROPERTY NUMBERS Total: 16	
Property Type	Number
Patent Number:	7212580
Patent Number:	6816101
Patent Number:	7035361
Patent Number:	7934144
Patent Number:	7050388
Patent Number:	7616700
Patent Number:	8005430
Patent Number:	7804760
Patent Number:	7366244
Patent Number:	7729431
Patent Number:	8315583
Patent Number:	8380771
Patent Number:	8183711
Patent Number:	8429439
Application Number:	11789899
Application Number:	13716547
CORRESPONDENCE DATA	
Fax Number:	(952)465-0771
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Email:	docketing@fogglaw.com
PATENT REEL: 032465 FRAME: 0952	

Correspondent Name:	FOGG & POWERS LLC
Address Line 1:	5810 W 78TH ST
Address Line 2:	SUITE 100
Address Line 4:	MINNEAPOLIS, MINNESOTA 55439

NAME OF SUBMITTER:	JENNIFER SWANSON
---------------------------	------------------

SIGNATURE:	/Jennifer Swanson/
-------------------	--------------------

DATE SIGNED:	03/18/2014
---------------------	------------

Total Attachments: 15

source=00401639#page1.tif
source=00401639#page2.tif
source=00401639#page3.tif
source=00401639#page4.tif
source=00401639#page5.tif
source=00401639#page6.tif
source=00401639#page7.tif
source=00401639#page8.tif
source=00401639#page9.tif
source=00401639#page10.tif
source=00401639#page11.tif
source=00401639#page12.tif
source=00401639#page13.tif
source=00401639#page14.tif
source=00401639#page15.tif

INTELLECTUAL PROPERTY ASSIGNMENT

This Intellectual Property Assignment ('Assignment') is made between:

Quellan LLC (formerly known as Quellan, Inc.), a limited liability company organized and existing under the laws of the State of Delaware, having a principal place of business at 1001 Murphy Ranch Road, Milpitas, CA 95035 USA, hereinafter referred to as "the Assignor," and

Intersil Americas LLC (formerly known as Intersil Americas Inc.), a limited liability company organized and existing under the laws of the State of Delaware, having a principal business address of 1001 Murphy Ranch Road, Milpitas, CA 95035 USA, hereinafter referred to as "the Assignee."

DEFINITIONS

"Intellectual Property Rights" means all intellectual property, industrial property or other proprietary rights that may exist or be created under the laws of any jurisdiction throughout the world including all of the following, whether registered or unregistered, all applications and registrations therefor (whether pending, existing, abandoned or expired), and any physical embodiments thereof: (i) inventions or discoveries, whether or not patentable, reduced to practice or made the subject of one or more pending patent applications, and whether or not under design or development, invention disclosures, improvements, confidential and proprietary information, know-how and technology, (ii) U.S. and foreign patents, patent applications, patent disclosures, utility and industrial models or other rights relating to the protection of inventions worldwide and all rights related thereto, including all original applications, provisional applications, divisional applications, reissues, re-examinations, extensions, continuations, continuations-in-part, continuing applications, or renewals thereof, all counterparts claiming priority therefrom, (iii) trademarks, service marks, certification marks, trade dress (including packaging and package designs, product inserts, labels or associated artwork), logos, slogans, domain names, internet addresses, uniform resource locators, keywords and purchased search terms, identifying symbols, designs, product names, business and company names, trade names, corporate names, insignia and general intangibles of a similar nature (whether registered or not registered) in the United States and all other nations throughout the world, including all variations, derivations, combinations, registrations and applications for registration or renewals of the foregoing and all goodwill associated therewith, (iv) copyrights in both published and unpublished works (whether or not registered) and registrations and applications for registration or renewals thereof in the United States and all other nations throughout the world, including all works, derivative works, moral rights, renewals, extensions, reversions or restorations associated with such copyrights, now or hereafter provided by law, regardless of the medium of fixation or means of expression, and any other rights of authorship in any other published and unpublished works, including all moral rights in any of the foregoing (v) mask works and registrations and applications for registration or renewals thereof in the United States and all other nations throughout the world, (vi) computer software (including source code, object code, firmware, operating systems and, development tools, files, records, specifications and all media on which any of the foregoing is recorded), (vii) information that derives economic value from not being generally known to other

Persons and all information that is proprietary or confidential to Assignor, including all trade secrets and, whether or not confidential, business information (including pricing and cost information, business and marketing plans and customer and supplier lists) and technology and know-how (including manufacturing and production processes and techniques and, research and development information, patterns, drawings, blueprints, bills of materials, specifications, products in development, processes, applications, and circuits), (viii) industrial designs (whether or not registered), (ix) databases and data collections, and all rights therein throughout the world, and (x) copies and tangible embodiments of any of the foregoing, in whatever form or medium (including electronic media).

ASSIGNMENT

Assignor is the owner of all right, title, and interest in and to Intellectual Property Rights and Assignee is desirous of acquiring any and all such interest in and to Assignor's said Intellectual Property Rights. Assignor and Assignee are sister companies directly or indirectly owned by the same corporate entity.

NOW, THEREFORE, be it known, that for good and valuable consideration, the receipt of which is hereby acknowledged by Assignor, Assignor's entire right, title and interest in and to said Intellectual Property Rights, including without limitation:

- a. the patents specified in Exhibit A attached hereto and made part of this Assignment;
- b. the patent applications specified in Exhibit B attached hereto and made part of this Assignment;
- c. the registered trademarks specified in Exhibit C attached hereto and made part of this Assignment;
- d. the registered mask works specified in Exhibit D attached hereto and made part of this Assignment;
- e. the registered copyrights specified in Exhibit E attached hereto and made part of this Assignment;
- f. the domain names specified in Exhibit F attached hereto and made part of this Assignment;
- g. the right to file applications for patents, trademarks, or registrations of service marks, trade dress, copyrights, and mask works;
- h. the right to file reissue, re-examination, continuation, or divisional applications;
- i. the right to file extensions;
- j. the right to file statements of use;
- k. the right to sue (i) for, recover and collect damages and costs and attorneys' fees for past, present and future, and (b) for injunctive relief, for infringement or misappropriation; and
- l. the right to license, and collect royalties, license fees, and all other forms of payment on account of such Intellectual Property Rights

is hereby assigned, conveyed and transferred to Assignee.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, trademark registrations, copyright registrations, mask work registrations, or other governmental grants or issuances that may be granted upon any of the Intellectual Property Rights in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment of Intellectual Property Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

Assignee hereby accepts all right, title and interest granted to it herein.

Assignor agrees that Assignor will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to Assignor relating to the Intellectual Property Rights and generally do all things which may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the Intellectual Property Rights.

This Agreement contains the complete and entire agreement between the Parties related to the subject matter of this Agreement, and supersedes any previous communications, representations, or agreements, whether verbal or written.

The provisions of this Agreement shall be deemed separable. Therefore, if any part of this Agreement is rendered void, invalid or unenforceable, such rendering shall not affect the validity or enforceability of the remainder of this Agreement.

{END OF CLAUSES}

Intersil Americas LLC (Assignee)

By: _____

Paul A. Bernkopf

Name: Paul A. Bernkopf

Title: Vice President and Asst. Secretary

Date: March 29, 2013

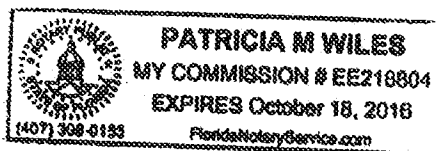
State of Florida)

) SS

County of Brevard)

On March 29, 2013 before me, Patricia M. Wiles, Notary Public, personally appeared Paul A. Bernkopf, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Vice President and Asst. Secretary of Intersil Americas LLC, and has proven to me on the basis of satisfactory evidence that he/she had and has the full authority to execute documents on behalf of Intersil Americas LLC and without any countersignature by any other individual, and that by his signature on the instrument the entity, upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Patricia M. Wiles

Notary Public

Exhibit A
Patents

Intersil #	Title	Country	Issue Date	Pat #
SE-2663-AN	MULTILEVEL PULSE POSITION MODULATION FOR EFFICIENT FIBER OPTIC COMMUNICATION	US	12-Dec-2006	7149256
SE-2663-AN	MULTILEVEL PULSE POSITION MODULATION FOR EFFICIENT FIBER OPTIC COMMUNICATION	US	01-Apr-2008	7352824
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	US	08-May-2007	7215721
SE-2665-AN	INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	US	06-Feb-2007	7173551
SE-2665-AN	INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	US	11-Dec-2007	7307569
SE-2666-AN	MULTILEVEL SIGNAL CLOCK RECOVERY TECHNIQUE	US	01-May-2007	7212580
SE-2668-AN	HIGH-SPEED ANALOG-TO-DIGITAL CONVERTER USING A UNIQUE GRAY CODE HAVING MINIMAL BIT TRANSITIONS	US	09-Nov-2004	6816101
SE-2672-AN	ADAPTIVE NOISE FILTERING AND EQUALIZATION FOR OPTIMAL HIGH SPEED MULTILEVEL SIGNAL DECODING	US	25-Apr-2006	7035361
SE-2672-AN	ADAPTIVE NOISE FILTERING AND EQUALIZATION FOR OPTIMAL HIGH SPEED MULTILEVEL SIGNAL DECODING	US	11-Aug-2009	7573966
SE-2672-AN	ADAPTIVE NOISE FILTERING AND EQUALIZATION FOR OPTIMAL HIGH SPEED MULTILEVEL SIGNAL DECODING	US	13-Nov-2012	8311168
SE-2673-AN	HIGH-SPEED ANALOG-TO-DIGITAL CONVERSION WITH IMPROVED ROBUSTNESS TO TIMING UNCERTAINTY	US	26-Apr-2011	7934144
SE-2673-AN	HIGH-SPEED ANALOG-TO-DIGITAL CONVERSION WITH IMPROVED ROBUSTNESS TO TIMING UNCERTAINTY	US	10-Jul-2012	8219893
SE-2675-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	US	23-May-2006	7050388
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	US	17-Oct-2006	7123676
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	JP	14-May-2010	4510832
SE-2677-AN	METHOD AND SYSTEM FOR SLICING A COMMUNICATION SIGNAL	US	10-Nov-2009	7616700

Intersil #	Title	Country	Issue Date	Pat #
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	21-Apr-2009	7522883
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	25-May-2010	7725079
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	13-Mar-2012	8135350
SE-2682-AN	METHOD AND SYSTEM FOR SIGNAL EMULATION	US	28-Sep-2010	7804760
SE-2685-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATIONS	US	01-Dec-2009	7626916
SE-2685-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATIONS	US	29-Nov-2011	8068406
SE-2688-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	US	13-Oct-2009	7602860
SE-2689-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	US	29-Apr-2008	7366244
SE-2691-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	US	01-Jun-2010	7729431
SE-2713-AN	PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	US	20-Nov-2012	8315583
SE-2733-AN	POWER EXTRACTION FROM SIGNAL SINKS	US	22-May-2012	8183711
SE-2663-AN	INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	EP	1-Aug-2012	1374515
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	DE	15-Dec-2010	60238602
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	EP	15-Dec-2010	1384338
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	GB	15-Dec-2010	1384338
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	IT	15-Dec-2010	1384338
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	DE	10-Nov-2010	602004030032
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	EP	21-Nov-2012	1687929
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	GB	10-Nov-2010	1687929
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	JP	12-Aug-2011	4800322

Intersil #	Title	Country	Issue Date	Pat #
SE-2680-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	JP	26-Oct-2012	5116668
SE-2687-AN	METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	JP	07-Aug 2012	5078991
SE-2675-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	KR	18-Jan 2012	10-1109847
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	KR	30-Oct-2012	10-1197810
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	KR	08-Nov-2012	10-1201613
SE-2682-AN	METHOD AND SYSTEM FOR SIGNAL EMULATION	KR	13-Mar-2012	10-1128557

Exhibit B
Patent Applications

Intersil #	Title	Country	Filing Date	Apl. #
SE-2664-AN	METHOD AND SYSTEM FOR DECODING MULTILEVEL SIGNALS	WO	28-Mar-2002	US02/11108
SE-2665-AN	INCREASING DATA THROUGHPUT IN OPTICAL FIBER TRANSMISSION SYSTEMS	WO	21-Dec-2001	US01/50695
SE-2675-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	DE	05-Aug-2004	112004001455
SE-2675-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	JP	05-Aug-2004	2006-522704
SE-2675-AN	METHOD AND SYSTEM FOR CROSSTALK CANCELLATION	WO	05-Aug-2004	04/025232
SE-2676-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	WO	17-Nov-2004	04/038564
SE-2677-AN	METHOD AND SYSTEM FOR SLICING A COMMUNICATION SIGNAL	US	14-Oct-2009	12/578869
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	02-Mar-2009	12/380654
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	15-Feb-2012	13/397001
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	EP	14-Dec-2005	05854008.9
SE-2679-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	WO	14-Dec-2005	05/045209
SE-2680-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	US	09-Apr-2010	12/757362
SE-2680-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	TW	12-Jun-2006	95120762
SE-2680-AN	METHOD AND SYSTEM FOR AUTOMATIC CONTROL IN AN INTERFERENCE CANCELLATION DEVICE	WO	09-Jun-2006	06/022640
SE-2682-AN	METHOD AND SYSTEM FOR SIGNAL EMULATION	EP	23-Aug-2006	06802258.1
SE-2682-AN	METHOD AND SYSTEM FOR SIGNAL EMULATION	JP	23-Aug-2006	2008-528149
SE-2682-AN	METHOD AND SYSTEM FOR SIGNAL EMULATION	WO	23-Aug-2006	06/033067
SE-2687-AN	METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	US	26-Apr-2007	11/789899
SE-2687-AN	METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	DE	26-Apr-2007	112996991945

Intersil #	Title	Country	Filing Date	Apl. #
SE-2687-AN	METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	KR	29-Oct-2008	10-2008-7026554
SE-2687-AN	METHOD AND SYSTEM FOR REDUCING RADIATED EMISSIONS FROM A COMMUNICATIONS CHANNEL	WO	26-Apr-2007	07/010237
SE-2689-AN	METHOD AND SYSTEM FOR ANTENNA INTERFERENCE CANCELLATION	US	08-Feb-2008	12/069236
SE-2712-AN	NOISE CANCELLATION FOR GPS ANTENNA MODULE	DE	20-Aug-2009	112009002020
SE-2712-AN	NOISE CANCELLATION FOR GPS ANTENNA MODULE	WO	20-Aug-2009	09/054500
SE-2713-AN	PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	US	09-Nov-2012	13/673150
SE-2713-AN	PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	CN	21-Jul-2009	CN200980128930.2
SE-2713-AN	PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	KR	21-Feb-2011	10-2011-703955
SE-2713-AN	PRE-CONFIGURATION AND CONTROL OF RADIO FREQUENCY NOISE CANCELLATION	WO	21-Jul-2009	09/51208
SE-2714-AN	NOISE SAMPLING DETECTORS	US	24-Sep-2008	12/236945
SE-2714-AN	NOISE SAMPLING DETECTORS	DE	24-Mar-2011	112009002364
SE-2714-AN	NOISE SAMPLING DETECTORS	KR	19-Apr-2011	10-2011-7008876
SE-2714-AN	NOISE SAMPLING DETECTORS	CN	18-Sep-2009	CN200980143927.8
SE-2714-AN	NOISE SAMPLING DETECTORS	WO	18-Sep-2009	2009/057572
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	US	17-Dec-2012	13/716547
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	US	27-Mar-2009	12/413454
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	CN	26-Mar-2010	CN201010155689.7
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	CN	04-Jan-2011	110021585
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	KR	17-Mar-2010	10-2010-0023665
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	KR	05-Jan-2011	0000873
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	TW	17-Mar-2010	099107767
SE-2734-AN	FILTER SHAPING USING A SIGNAL CANCELLATION FUNCTION	EP	26-Mar-2010	10158086.8
SE-2735-AN	POWER EXTRACTION FROM SIGNAL SINKS	TW	26-Mar-2010	099109006
SE-2736-AN	INTER-PAIR SKEW ADJUSTMENT	US	20-May-2009	12/469450
SE-2736-AN	INTER-PAIR SKEW ADJUSTMENT	DE	17-May-2010	102010016974
SE-2736-AN	INTER-PAIR SKEW ADJUSTMENT	TW	26-Mar-2010	099109007
SE-2737-AN	DUPLEXER AND SWITCH ENHANCEMENT	US	29-Apr-2009	12/432013

Intersil #	Title	Country	Filing Date	Apl. #
SE-2737-AN	DUPLEXER AND SWITCH ENHANCEMENT	CN	28-Apr-2010	CN201010174515.5
SE-2737-AN	DUPLEXER AND SWITCH ENHANCEMENT	DE	01-Apr-2010	102010016311
SE-2737-AN	DUPLEXER AND SWITCH ENHANCEMENT	KR	18-Mar-2010	10-2010-0024227

Exhibit C
Trademarks

Case Number	Country	MARK	REG #	REG DATE
T553	US	Q-ACTIVE	3254638	26-Jun-2007
T554	US	Q QUELLAN (AND DESIGN)	3346034	20-Nov-2007
T555	US	QUELLAN	3312585	16-Oct-2007
T556	US	MORE SIGNAL. LESS NOISE	3411455	15-Apr-2008
T557	US	5BAR SIGNAL STRENGTH (AND DESIGN)	3464069	08-Jul-2008
T558	US	MEDIA INTERCONNECT (AND DESIGN)	3647290	30-Jun-2009
T559	US	DESKTOP INTERCONNECT (AND DESIGN)	3647291	30-Jun-2009
T560	US	AIR INTERCONNECT (AND DESIGN)	3647314	30-Jun-2009
T561	US	CLOUD INTERCONNECT (AND DESIGN)	3646583	30-Jun-2009

Exhibit D
Maskworks
None

Exhibit E
Copyright
None

Exhibit F
Domain Names
None