

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4810633

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICROSEMIM SEMICONDUCTOR (U.S.) INC.	07/21/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	IP GEM GROUP, LLC
<b>Street Address:</b>	19900 MACARTHUR BOULEVARD
<b>Internal Address:</b>	SUITE 650
<b>City:</b>	IRVINE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92612
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15683862
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)643-6913
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	6132707441
<b>Email:</b>	skahn@microsemi.com
<b>Correspondent Name:</b>	MICROSEMI CORPORATION
<b>Address Line 1:</b>	3870 NORTH FIRST STREET
<b>Address Line 2:</b>	ATT: JANET DRAKES - RECORDS MANAGER
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95134
<b>ATTORNEY DOCKET NUMBER:</b>	S-2423-US
<b>NAME OF SUBMITTER:</b>	SIMON KAHN - REG NO 48249
<b>SIGNATURE:</b>	/Simon Kahn/
<b>DATE SIGNED:</b>	02/06/2018
<b>Total Attachments: 6</b>	
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## ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

THIS ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS dated as of July 21, 2017 (this "Assignment") by Microsemi Semiconductor (U.S.) Inc. ("Assignor"), a Delaware corporation, having a place of business at 4509 Freidrich Lane, Building 2, Suite 200, Austin, TX 78744, in favor of IP Gem Group, LLC, a Delaware limited liability company ("Assignee"), having a place of business at 19900 MacArthur Boulevard Suite 650, Irvine, California 92612. Capitalized terms used but not otherwise defined herein shall have the meanings ascribed thereto in the APA (as defined below).

**WHEREAS**, Assignor is the owner of certain patents and patent applications in the United States Patent and Trademark Office, as identified in Exhibit I attached hereto (the "Patents");

**WHEREAS**, it is the intention of Assignor and Assignee that Assignee own the entire right, title and interest in and to the Patents;

**WHEREAS**, Assignor and Assignee have entered into a certain transfer agreement, dated July 21, 2017 (the "Transfer Agreement"), which provides for the transfer and assignment of the Patents to Assignee; and

**WHEREAS** the Patents are currently held by Assignor and are to be transferred and assigned to Assignee.

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby mutually acknowledged, and pursuant to the terms of the Transfer Agreement, Assignor agrees to and does hereby sell, assign, transfer, set over, grant, and convey unto Assignee, its successors and assigns, the entire and exclusive right, title and interest in and to the Patents, including all inventions in the United States described therein, and the applications and patents issuing from applications listed therein in the United States, and any United States applications and patents claiming priority to any of those listed therein, and any United States applications and patents from which those listed therein may claim priority to, and any other continuations, continuations-in-part, divisionals, reissues, extensions, reexamination certificates of the Patents or based thereon, together with all rights of enforcement and choses in action related thereto, including, without limitation, rights to sue and claims for damages by reason of past, present or future infringement of any of the Patents, with the right to sue for, settle, recover, and collect the same, and any and all other corresponding rights that have been, or hereafter may be, secured with respect to the Patents. Assignor further agrees to execute and has executed all documents, instruments and papers and to perform all acts, without any further consideration, as reasonably requested by Assignee, its successors and assigns, to perfect in Assignee, its successors and assigns, the foregoing rights, title and interests, including the execution of any related patent application documents.

Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue the United States Letters Patents resulting from all the United States applications in the Patents to Assignee, its successors and assigns.

This Assignment is subject in all respects to the terms and conditions of the Transfer Agreement, which are incorporated herein by reference. This Assignment is given to further evidence (and give immediate effect to) the transfers and assignments contemplated by the Transfer Agreement upon the terms and conditions specified therein.

This Assignment shall be governed by, and construed in accordance with the laws of the State of Delaware, United States, without regard to conflicts of law principles.

This Assignment may be executed in two or more counterparts, each of which will be deemed to be an original copy of this Assignment and all of which, when taken together, will be deemed to constitute one and the same agreement. Any signed counterpart of this Assignment may be delivered by facsimile or other form of electronic transmission (e.g., pdf), with the same legal force and effect as delivery of an originally signed agreement.

*[Signature Pages Follow]*

IN WITNESS WHEREOF, Assignor has executed this Assignment as an instrument under seal effective as of this 21st day of July, 2017.

MICROSEMI SEMICONDUCTOR (U.S.) INC.

By: David Goren  
Name: David Goren  
Title: SVP

STATE OF \_\_\_\_\_

COUNTY OF \_\_\_\_\_

On this the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me appeared \_\_\_\_\_, the person who signed this instrument, who acknowledged that he signed such instrument as his free act and deed.

\_\_\_\_\_  
Notary Public

My commission expires: \_\_\_\_\_

IN WITNESS WHEREOF, Assignee has executed this Assignment as an instrument under seal effective as of this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

IP GEM GROUP LLC

By: [Signature]  
Name:  
Title:

EXHIBIT 1

**Patents and Patent Applications**

## ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

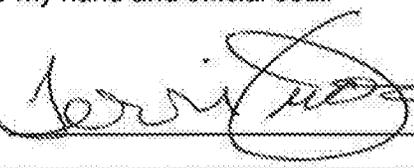
State of California  
County of Orange

On 07/21/17 before me, Terri Judson, Notary Public  
(insert name and title of the officer)

personally appeared David Goren  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature  (Seal)

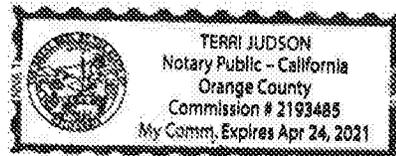


Exhibit 1 to Assignment Agreement - Microsemi Semiconductor (U.S.) Inc. and IP Gem Group, LLC

US PATENT NUMBER	ISSUE DATE	TITLE	DATE FILED	APPLICATION NUMBER
6426979	Jul 30, 2002	ADAPTATION CONTROL ALGORITHM FOR ECHO CANCELLATION USING SIGNAL-VALUE BASED ANALYSIS	Apr 29, 1999	09301848
		Acoustic Echo Path Change Detection Apparatus and Method	Sep 22, 2016	15272453
		Comfort Noise Generation Apparatus and Method	Sep 22, 2016	15272467
		FULL DUPLEX VOICE COMMUNICATION SYSTEM AND METHOD	Sep 13, 2016	62394204