

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4981939

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MORGAN STANLEY SENIOR FUNDING, INC.	05/29/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MICROSEMI CORP. - HIGH PERFORMANCE TIMING
<b>Street Address:</b>	ONE ENTERPRISE
<b>City:</b>	ALISO VIEJO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92656
<b>PROPERTY NUMBERS Total: 14</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	8022595
Patent Number:	7855564
Patent Number:	6825715
Patent Number:	7800285
Patent Number:	5917272
Patent Number:	6825734
Patent Number:	7569971
Patent Number:	6784756
Patent Number:	7919909
Patent Number:	8073640
Patent Number:	6731180
Application Number:	14933681
Application Number:	14949221
Application Number:	62520818
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)838-5109
<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>	650-838-3743
<b>Email:</b>	JLIK@SHEARMAN.COM

<b>Correspondent Name:</b>	BENJAMIN PETERSEN
<b>Address Line 1:</b>	1460 EL CAMINO REAL, 2ND FLOOR
<b>Address Line 2:</b>	SHEARMAN & STERLING LLP
<b>Address Line 4:</b>	MENLO PARK, CALIFORNIA 94025

<b>ATTORNEY DOCKET NUMBER:</b>	35613/102
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<b>NAME OF SUBMITTER:</b>	BENJAMIN PETERSEN
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<b>SIGNATURE:</b>	/BENJAMIN PETERSEN/
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<b>DATE SIGNED:</b>	05/29/2018
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**Total Attachments: 4**

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**PATENT SECURITY AGREEMENT RELEASE**

THIS PATENT SECURITY AGREEMENT RELEASE (this “**Release**”) is made effective as of May 29, 2018, by Morgan Stanley Senior Funding, Inc. (“**Morgan Stanley**”), as collateral agent (in such capacity, the “**Collateral Agent**”) for the Secured Parties (as defined in the Guarantee and Collateral Agreement referred to below), in favor of Microsemi Corp. – High Performance Timing (the “**Grantor**”).

WHEREAS, the Grantor was party to that certain Guarantee and Collateral Agreement dated as of January 15, 2016 (the “**Guarantee and Collateral Agreement**”) in favor of the Collateral Agent and Morgan Stanley, as administrative agent (capitalized terms used but not otherwise defined herein shall have the meanings given to them in the Guarantee and Collateral Agreement);

WHEREAS, pursuant to the terms of the Guarantee and Collateral Agreement, the Grantor entered into that certain Patent Security Agreement, dated as of January 24, 2018 (the “**Patent Security Agreement**”); and

WHEREAS, in accordance with the provisions of the Guarantee and Collateral Agreement and the Patent Security Agreement, the Collateral Agent now desires to release its security interest in and to the Collateral (as defined below).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent hereby agrees as follows:

SECTION 1. Release of Grant of Security. The Collateral Agent hereby releases to the Grantor its security interest in all of the Grantor’s right, title and interest in and to the following (the “**Collateral**”):

- (i) all Patents of such Grantor, including, without limitation, the registered and applied-for Patents of such Grantor listed on Schedule 1 attached hereto; and
- (ii) to the extent not covered by clause (i), all Proceeds of any of the foregoing.

If and to the extent that the Collateral Agent has acquired any right, title or interest in and to the Collateral under the Patent Security Agreement, the Collateral Agent, without representation or warranty of any kind, hereby re-transfers, re-conveys and re-assigns such right, title or interest to the Grantor.


SECTION 2. Recordation. The Collateral Agent authorizes and requests that the Commissioner for Patents and any other applicable government officer record this Release.

SECTION 3. Governing Law. This Release shall be governed by, and construed in accordance with, the laws of the State of New York.

[Signature Page Follows]

IN WITNESS WHEREOF, the Collateral Agent has caused this Release to be executed by its duly authorized officer.

MORGAN STANLEY SENIOR FUNDING, INC.,  
as Collateral Agent

By:  \_\_\_\_\_

Name: Lisa Hanson

Title: Authorized Signatory

**PATENTS**

**Patents Granted**

<b>Title</b>	<b>App. Number</b>	<b>Filing Date</b>	<b>Pat. Number</b>	<b>Issue Date</b>	<b>Country</b>	<b>Owner</b>
ASYMMETRIC COMPOSITE ACOUSTIC WAVE SENSOR	12/202,431	9/2/2008	8,022,595	9/20/2011	US	Microsemi Corp. – High Performance Timing.
ACOUSTIC WAVE DEVICE PHYSICAL PARAMETER SENSOR	12/031,055	2/14/2008	7,855,564	12/21/2010	US	Microsemi Corp. – High Performance Timing.
TEMPERATURE COMPENSATED, HIGH EFFICIENCY DIODE DETECTOR	10/429,151	5/2/2003	6,825,715	11/30/2004	US	Microsemi Corp. – High Performance Timing.
COATING FOR HARSH ENVIRONMENTS AND SENSORS USING SAME	11/814,167	7/17/2007	7,800,285	9/21/2010	US	Microsemi Corp. – High Performance Timing.
OVEN-HEATED CRYSTAL RESONATOR AND OSCILLATOR ASSEMBLY	09/096,026	6/11/1998	5,917,272	6/29/1999	US	Microsemi Corp. – High Performance Timing.
OSCILLATOR MODULE INCORPORATING SPIRAL LOOPEd-STUB RESONATOR	10/706,895	11/13/2003	6,825,734	11/30/2004	US	Microsemi Corp. – High Performance Timing.
COMPENSATION OF RESONATORS FOR SUBSTRATE AND TRANSDUCER ASYMMETRY	11/865,829	10/2/2007	7,569,971	8/4/2009	US	Microsemi Corp. – High Performance Timing.
ON BOARD PROCESSOR COMPENSATED OVEN CONTROLLED CRYSTAL OSCILLATOR	10/376,166	2/28/2002	6,784,756	8/31/2004	US	Microsemi Corp. – High Performance Timing.
INTEGRATED COUPLING STRUCTURES	12/429,300	4/24/2009	7,919,909	4/5/2011	US	Microsemi Corp. – High Performance Timing.
CONTROLLED COMPRESSION WAVE COMPONENTS OF THICKNESS SHEAR MODE MULTIMEASURE AND SENSORS	12/884,931	9/17/2010	8,073,640	12/6/2011	US	Microsemi Corp. – High Performance Timing.
EVACUATED MINIATURE SAW OSCILLATOR	10/056,958	10/22/2001	6,731,180	5/4/2004	US	Microsemi Corp. – High Performance Timing.

**Patents Pending**

<b>Title</b>	<b>App. Number</b>	<b>Filing Date</b>	<b>Country</b>	<b>Owner</b>
PLANAR INVERTED-F WING ANTENNA FOR WIRELESS CULINARY APPLIANCES	14/933,681	11/5/2015	US	Microsemi Corp. – High Performance Timing.
WIRELESS CULINARY PROBE CALIBRATION METHOD AND SYSTEM	14/949,221	11/23/2015	US	Microsemi Corp. – High Performance Timing.
DOUBLY ROTATED RECTANGULAR CRYSTAL	62/520,818	6/16/2017	US	Microsemi Corp. – High Performance Timing.

**PATENT**

**REEL: 045926 FRAME: 0486**

**RECORDED: 05/29/2018**