

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2836497

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JOHN MCCOLLUM	03/17/2014
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	MICROSEMI SOC CORPORATION	
<b>Street Address:</b>	3870 NORTH FIRST STREET	
<b>City:</b>	SAN JOSE	
<b>State/Country:</b>	CALIFORNIA	
<b>Postal Code:</b>	95134	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14208513	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(412)945-5933	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	412-471-8815	
<b>Email:</b>	assignments@webblaw.com	
<b>Correspondent Name:</b>	KENNETH D'ALESSANDRO	
<b>Address Line 1:</b>	THE WEBB LAW FIRM, P.C.	
<b>Address Line 2:</b>	ONE GATEWAY CENTER, SUITE 1200	
<b>Address Line 4:</b>	PITTSBURGH, PENNSYLVANIA 15222	
<b>ATTORNEY DOCKET NUMBER:</b>	7224-140609	
<b>NAME OF SUBMITTER:</b>	KENNETH D'ALESSANDRO, REG. NO. 29,144	
<b>SIGNATURE:</b>	/Kenneth/D'Alessandro	
<b>DATE SIGNED:</b>	04/30/2014	
<b>Total Attachments: 3</b>		
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source=Recordation_Cover_Sheet_and_Assignment#page2.tif		
source=Recordation_Cover_Sheet_and_Assignment#page3.tif		

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)**

John McCollum

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 03/17/2014

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: MICROSEMI SOC CORPORATION

Internal Address: \_\_\_\_\_

Street Address: 3870 North First Street

City: San Jose

State: CA

Country: \_\_\_\_\_ Zip: 95134

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

14/208,513

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Kenneth D'Alessandro

Internal Address: The Webb Law Firm

Street Address: One Gateway Center  
420 Ft. Duquesne Blvd., Ste 1200

City: Pittsburgh

State: PA Zip: 15222

Phone Number: 412-471-8815

Fax Number: 412-945-5933

Email Address: assignments@webblaw.com

**6. Total number of applications and patents involved:** 1 (one)

**7. Total fee (37 CFR 1.21(h) & 3.41)** \$ 0.00

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☐ Enclosed  
☒ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers 1916  
Expiration Date 05/2015

b. Deposit Account Number 23-0650

Authorized User Name \_\_\_\_\_

**9. Signature:**

/Kenneth D'Alessandro/

Signature

April 30, 2014

Date

Kenneth D'Alessandro, Reg. No. 29,144

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

DOMESTIC  
Application No. 14/208,513  
Attorney Docket No. 7224-140609

**ASSIGNMENT**

WHEREAS, as a below named inventor, I have invented certain new and useful improvements in

**BACKGROUND AUTO-REFRESH APPARATUS AND METHOD FOR NON-VOLATILE MEMORY ARRAY**

(Invention Title)

☐ for which a United States Provisional Patent application was filed on \_\_\_\_\_ (mm/dd/yyyy) and bears Application Number \_\_\_\_\_ (hereinafter "said application").

AND/OR

☐ for which I have this day executed an application for a United States Patent (hereinafter "said application").

AND/OR

☒ for which an application for a United States Patent was filed on 03/13/2014 (mm/dd/yyyy) and bears Application Number 14/208,513 (hereinafter "said application").

AND/OR

☐ for which an international patent application was filed under the Patent Cooperation Treaty on \_\_\_\_\_ (mm/dd/yyyy), bearing Application No. \_\_\_\_\_ (hereinafter "said application").

AND, WHEREAS, MICROSEMI SOC CORPORATION, a corporation of State of California, having a place of business at 3870 North First Street, San Jose, CA 95134, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I as the inventor or as one of the inventors, hereinafter the assignor(s), do hereby assign, sell and transfer unto said assignee the full and exclusive right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals and/or extensions thereof. Such assignment extends to the full ends of the terms of these applications and patents as fully and entirely as the same would have been held and enjoyed by me had this Assignment not been made.

I hereby authorize and request any attorney associated with The Webb Law Firm, Customer No. 28289, to insert here in parentheses (Application No. 14/208,513, filed 03/13/2014) the filing date and application number of said application when known.

I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.

DOMESTIC  
Application No. 14/208,513  
Attorney Docket No. 7224-140609

And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.

1. FULL NAME OF ASSIGNOR:

John McCollum

RESIDENCE:

San Jose, CA

EXECUTED this 12 day of March, 2014

John R. McCollum  
SIGNATURE

STATE of California )

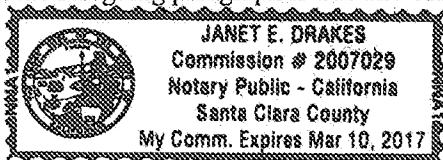
COUNTY of Santa Clara )

On this 17th day of March, in the year 2014, before me Janet E. Drakes,  
DAY MONTH YEAR NOTARY PUBLIC NAME

a notary public, personally appeared John McCollum,  
NAME OF DOCUMENT SIGNER

proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same.

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.

Janet E. Drakes  
NOTARY PUBLIC

S  
E  
A  
L

☐ Checked Box indicates \_\_\_\_ additional page(s) for inventor signatures.