

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Mio MARUMOTO</td> <td>05/25/2012</td> </tr> <tr> <td>Sachiko EDO</td> <td>05/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Mio MARUMOTO	05/25/2012	Sachiko EDO	05/25/2012				
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<table border="1"> <tr> <td>Name:</td> <td>Elpida Memory, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>2-1, Yaesu 2-chome, Chuo-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>104-0028</td> </tr> </table>		Name:	Elpida Memory, Inc.	Street Address:	2-1, Yaesu 2-chome, Chuo-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	104-0028
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13486706</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13486706						
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CORRESPONDENCE DATA											
Fax Number: (202)672-5399 Phone: 2026725300 Email: akendall@foley.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> Correspondent Name: George C. Beck Address Line 1: Foley & Lardner LLP Address Line 2: 3000 K St. NW, Suite 600 Address Line 4: Washington, DISTRICT OF COLUMBIA 20007											
ATTORNEY DOCKET NUMBER:	087673-0123										
NAME OF SUBMITTER:	Amy Kendall										
Total Attachments: 2 source=AssignmentUS13_486706#page1.tif source=AssignmentUS13_486706#page2.tif											

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ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Elpida Memory, Inc., 2-1, Yaesu 2-chome, Chuo-ku, Tokyo , Japan

(hereinafter ASSIGNEE) its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

SEMICONDUCTOR DEVICE PERFORMING SELF REFRESH OPERATION

as set forth in this United States Patent Application

*Check
one*

☒ executed concurrently herewith
☐ executed on _____
☐ Serial No. _____ Filed _____
 and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its

successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF INVENTOR(S)

NAME: Mio MARUMOTO SIGNATURE: Mio Marumoto DATE: 25 May, 2012

NAME: Sachiko EDO SIGNATURE: Sachiko Edo DATE: 25 May, 2012

NAME: _____ SIGNATURE: _____ DATE: _____

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NAME: _____ SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: Shoji EGUCHI SIGNATURE: Shoji Eguchi DATE: May 25, 2012

NAME: _____ SIGNATURE: _____ DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution of this document before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by certificate from a U.S. Consul.