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1. Name of conveying party(ies):

Kazuhiro TERAMOTO Yoji IDEI

11-9-1

Name and address of receiving party(ies):

U.S. PTO 11/979954 11/09/2007

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

Additional conveying party(ies)

NO

3. Nature of conveyance:

ASSIGNMENT

Execution Date:

November 8, 2007

Additional name(s) & address(es) attached?

NO

Application number(s) or patent number(s):

If this is being filed together with a new application, the execution date of the application is:

04 FC:8021

11979954 November 8 2007 49.99 OP

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached? NO

5. Name and address of party to whom correspondence concerning document should be faxed:

> George C. Beck **FOLEY & LARDNER LLP Washington Harbour** 3000 K Street NW, Suite 500 Washington, D.C. 20007-5143 FAX: (202) 672-5399

- 6. Total number of applications/patents involved:
- 7. Total fee (37 C.F.R. § 3.41): \$40.00

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George C. Beck

November 9, 2007

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PATENT **REEL: 020149 FRAME: 0473**

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 MEMORY DEVICE INCLUDING A SENSE AMPLIFIER HAVING A REDUCED OPERATING CURRENT

as set forth in this United States Patent Application

Check	executed concurrently herewith
one	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 and counties foreign thereto, (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.

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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 and countries foreign thereto.

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ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of Foley a 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 wit respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME: Kazuhiro TERAMOTO	SIGNATURE:	Maguhiro Teramoto	DATE:	November	8,	2001		
NAME: Yoji IDEI	SIGNATURE:	yopi Ider (#	DATE:	November	8,	2001		
NAME:								
NAME:	SIGNATURE:		DATE:					
NAME:	SIGNATURE:		DATE:					
NAME AND SIGNATURE OF WITNESSES								
NAME: Takeo FUJII	SIGNATURE	Token Frijill	DATE:	November	8,	200		
NAME: Akira MUTO	SIGNATURE	Stein much	DATE:	November	8,	200		

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NAME AND SIGNATURE OF INVENTOR(S)