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1. Name of conveying party(ies):  
**Yoshifumi Mochida**

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

Name: **Elpida Memory, Inc.**

Address: **2-1, Yaesu 2-chome, Chuo-ku**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: **Tokyo**

State/Prov.:

Country: **Japan**

ZIP:

Execution Date: **12/8/05**

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☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: **12/8/05**

Patent Application No.

Filing date

B. Patent No.(s)

12-13-05  
12/19/2005 BYRNE 00000041 11299765

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Additional numbers

☐ Yes ☒ No

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

Name: **Michael E. Whitham**

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**11491 Sunset Hills Road, Suite 340**

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State/Prov.: **Va**

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ZIP: **20190**

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

7. Total fee (37 CFR 3.41):.....\$ **40.00**

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

**Michael E. Whitham**

Name of Person Signing

Signature

**December 13, 2005**

Date

Total number of pages including cover sheet, attachments, and document: **3**

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**PATENT**  
**REEL: 017319 FRAME: 0052**

## PATENT OR DESIGN: SOLE OR JOINT

(U.S. and Foreign Rights)

ASSIGNMENT FOR UNFILED APPLICATION FOR UNITED STATES  
PATENT

(Sole or Joint Inventors)

## WHEREAS:

FULL NAME(S) AND  
POST OFFICE ADDRESS(S)  
OF INVENTOR(S) (including  
country)Yoshifumi MOCHIDA  
c/o Elpida Memory, Inc., 2-1, Yaesu 2-  
chome, Chuo-ku, Tokyo, Japan(hereinafter referred to as ASSIGNOR), have invented and  
own a certain invention entitled:TITLE OF  
INVENTIONSEMICONDUCTOR MEMORY DEVICE WITH  
HIERARCHICAL I/O LINE ARCHITECTUREfor which application for Letters Patent of the United States  
has been executed on even date herewith,

## WHEREAS:

FULL NAME AND  
ADDRESS (including country)  
OF ASSIGNEEElpida Memory, Inc., 2-1, Yaesu 2-  
chome, Chuo-ku, Tokyo, Japan(hereinafter referred to as ASSIGNEE), is desirous of acquir-  
ing the entire interest in, to and under said invention and in,  
to and under Letters Patent or similar legal protection to be  
obtained therefor in the United States and in any and all for-  
eign countries.NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN:  
Be it known that in consideration of the payment by AS-  
SIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the  
receipt of which is hereby acknowledged, and for other good  
and valuable consideration, ASSIGNOR hereby sells, assigns  
and transfers to ASSIGNEE the full and exclusive right, title  
and interest to said invention in the United States and its terri-  
torial possessions and in all foreign countries and to all Let-  
ters Patent or similar legal protection in the United States and  
its territorial possessions and in any and all foreign countries  
to be obtained for said invention by said application or any  
continuation, division, renewal, substitute or reissue thereof or

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any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand  
and seal this December 8, 2006

**Warning**  
**DATE OF SIGNING:**

This must be the same as the date of signing of the declaration and power of the patent or design application.

**SIGNATURE(S)**

The signature(s) must correspond with the name(s) of the inventor(s) above.

(Date of Signing)

Yoshifumi Mochida    
(Signature)

Yoshifumi MOCHIDA


(Signature)

(Signature)

(Signature)

(Signature)

Witness:

Masaki Kawaguchi 

[Signature]

Instruction  
sheet for  
assignment  
Signing

All information, names of inventor(s) and assignee, title of invention and particulars of application should be completed.

No witnessing or legalization is necessary. However, if this assignment is legalized then it will only be prime facie evidence of the execution of the assignment.

(Assignment for Unfiled Application for United States Patent—page 2 of 2)