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3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other: \_\_\_\_\_

Execution Date(s): July 9, 2007

4. Application number(s) or patent number(s):  
 This document is being filed together with a new application.  
OR  
 This document is being filed after filing of the application:  
(a) Patent Application No(s). 11/882,582, filed August 2, 2007; or  
(b) Patent No(s). , issued .

5. Name and address of party to whom correspondence concerning document should be mailed:  
STAAS & HALSEY LLP Our Docket: 1687.1018  
Attention: H. J. Staas  
1201 New York Ave., N.W., 7th Floor  
Washington, D.C. 20005

6. Total number of applications and patents involved: 1

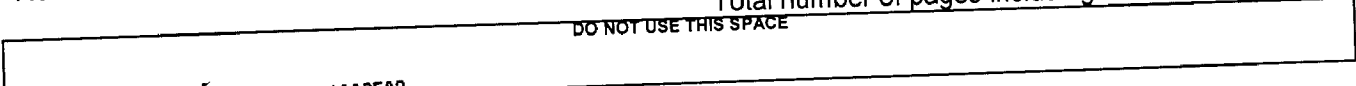
7. Total fee (37 CFR 3.41)..... (\$ 40.00 per Patent or Application in Assignment)  
 Enclosed  
 Authorized to be charged to deposit account.

8. Deposit Account No.: 19-3935 (Any underpayment is authorized to be charged to this Deposit Account)  
(Attach duplicate copy of this page if paying by deposit account)

H. J. Staas, Reg. No. 22,010  
Name of Person Signing

[Signature] Oct. 20, 2007  
Signature Date

Total number of pages including cover sheet: 2



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# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert  
ASSIGNEE's  
Name(s)  
Address(es))

Semiconductor Technology Academic Research Center

17-2, Shin Yokohama 3-chome, Kouhoku-ku, Yokohama-shi, Kanagawa 222-0033, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of  
Invention)

PHASE-CHANGE MEMORY DEVICE, PHASE-CHANGE CHANNEL TRANSISTOR,  
AND MEMORY CELL ARRAY

relating to International Patent Application PCT/JP \_\_\_\_\_/\_\_\_\_\_ and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(Insert date  
of execution  
of application,  
if not  
concurrent)

(a) executed on \_\_\_\_\_;  
(b) filed on \_\_\_\_\_;  
Serial No. \_\_\_\_\_/\_\_\_\_\_;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) <u>Sumio Hosaka</u> (SIGNATURE)	Sumio Hosaka (TYPE NAME)	July 9, 2007 (DATE)
2) <u>Hayato Sone</u> (SIGNATURE)	Hayato Sone (TYPE NAME)	July 9, 2007 (DATE)
3) <u>Masaki Yoshimaru</u> (SIGNATURE)	Masaki Yoshimaru (TYPE NAME)	July 9, 2007 (DATE)
4) <u>Takashi Ono</u> (SIGNATURE)	Takashi Ono (TYPE NAME)	July 9, 2007 (DATE)
5) <u>Mayumi Nakasato</u> (SIGNATURE)	<del>Mayumi Nakasato</del> M.N. (TYPE NAME)	July 9, 2007 (DATE)
6) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
7) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)
8) _____ (SIGNATURE)	_____ (TYPE NAME)	_____ (DATE)