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Tamio IKEHASHI, Takashi OHSAWA and Katsuyuki FUJITA

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

2. Name and address of receiving party(ies):
Name: KABUSHIKI KAISHA TOSHIBA
Address: 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN

Additional name(s) and address(es) attached? Yes No

3. Nature of Conveyance:
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Execution Date: July 14, 2003

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

If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s)
10/617,046

Additional numbers attached? Yes No

B. Patent No.(s)

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Nov. 13, 2003
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July 20 2003

Assignment of Application

WHEREAS, I (WE) Tamio IKEHASHI c/o Intellectual Property Division, Toshiba Corporation, 1-1,
Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN; Takashi OHSAWA
c/o Intellectual Property Division, Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku,
Tokyo 105-8001, JAPAN; and Katsuyuki FUJITA c/o Intellectual Property Division,
Toshiba Corporation, 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN

INSERT NAMES AND RESIDENCE ADDRESS OF THE INVENTORS:

_____, respectively,

INSERT TITLE OF INVENTION:

have invented certain new and useful improvements in: _____

SEMICONDUCTOR MEMORY DEVICE

INSERT DATE INVENTORS SIGNED DECLARATION:

for which an application for Letters Patent was executed on _____

(Application No. 10/617,046, filed July 11, 2003), and

INSERT NAME AND ADDRESS OF COMPANY OR OTHER ASSIGNEE:

WHEREAS, KABUSHIKI KAISHA TOSHIBA

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, JAPAN

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of 1940 Duke Street Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: July 14, 2003

T. Ikehashi
(Signature of Inventor) Tamio IKEHASHI

Date: July 14, 2003

Takashi Ohsawa
(Signature of Inventor) Takashi OHSAWA

Date: July 14, 2003

Katsuyuki Fujita
(Signature of Inventor) Katsuyuki FUJITA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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10/01