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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

DOCKET NO.: 49657-119 (394-2497) PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

1. Name of conveying party(ies):

Tetsushi TANIZAKI, Mitsuya KINOSHITA, Takeshi FUJINO,
Takahiro TSURUDA, Fukashi MORISHITA, Teruhiko AMANO,
Kazutami ARIMOTO, & Mako KOBAYASHI

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

Name: Mitsubishi Denki Kabushiki Kaisha

Internal Address: _____

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

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____
Street Address: 2-3, Marunouchi 2-chome, Chiyoda-kuCity: TOKYO 100-8310 State/Country: JAPAN ZIP: _____Execution Date: July 1, 1998Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If the document is being filed together with a new application, the execution date of the application is: July 1, 1998

A. Patent Application No(s).

(09/113147)

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Name: McDERMOTT, WILL & EMERY

Internal Address: _____

Street Address: 99 Canal Center Plaza, Suite 300City: Alexandria State: VA ZIP: 223146. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

500417

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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.*Stephen A. Becker, 26,527

Name and Registration No. of Person Signing

Signature

July 10, 1998

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

07/20/1998 DCOATES 00000233 500417 09113147

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PATENT
REEL: 9312 FRAME: 0394

Docket No.:

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which is hereby acknowledged, the undersigned,

(1) <u>Tetsushi TANIZAKI</u>	(4) <u>Takahiro TSURUDA</u>	(7) <u>Kazutami ARIMOTO</u>
(2) <u>Mitsuya KINOSHITA</u>	(5) <u>Fukashi MORISHITA</u>	(8) <u>Mako KOBAYASHI</u>
(3) <u>Takeshi FUJINO</u>	(6) <u>Teruhiko AMANO</u>	(9) _____

who have made a certain new and useful invention, hereby sell, assign and transfer unto

Mitsubishi Denki Kabushiki Kaisha of
2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

its successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America as defined in 35 U.S.C. 100 in the invention entitled

MULTI-BANK CLOCK SYNCHRONOUS TYPE SEMICONDUCTOR MEMORY DEVICE HAVING
IMPROVED MEMORY ARRAY AND POWER SUPPLY ARRANGEMENT

(a) for which an application for United States Letters Patent was filed on _____ and identified by United States Serial No. _____; or

(b) for which an application for United States Letters Patent was executed on July 1, 1998

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE:

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent based thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS	DATE SIGNED
1) <u>Tetsushi Tanizaki</u> Name: Tetsushi TANIZAKI	<u>July 1, 1998</u>
2) <u>Mitsuya Kinoshita</u> Name: Mitsuya KINOSHITA	<u>July 1, 1998</u>
3) <u>Takeshi Fujino</u> Name: Takeshi FUJINO	<u>July 1, 1998</u>
4) <u>Fukashi Fujino Takahiro Tsuruda</u> Name: Takahiro TSURUDA <u>TT 21 1, 1998</u>	<u>July 1, 1998</u>
5) <u>Fukashi Morishita</u> Name: Fukashi MORISHITA	<u>July 1, 1998</u>
6) <u>Teruhiko Amano</u> Name: Teruhiko AMANO	<u>July 1, 1998</u>
7) <u>Kazutami Arimoto</u> Name: Kazutami ARIMOTO	<u>July 1, 1998</u>
8) <u>Mako Kobayashi</u> Name: Mako KOBAYASHI	<u>July 1, 1998</u>
9) _____ Name: _____	_____

PATENT

RECORDED: 07/10/1998

REEL: 9312 FRAME: 0395