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PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
Patent and Trademark OfficeFORM PTO-159a  
1-31-92

Docket No.: 57454-266

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

1. Name of Conveying Party(ies):

1-28-02

Mako KOBAYASHI, Fukashi MORISHITA

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

Name: MITSUBISHI DENKI KABUSHIKI KAISHA

Address: 2-3, Marunouchi 2-chome,

Chiyoda-ku,

Tokyo 100-8310, Japan

Additional name(s) of conveying party(ies) attached? ☐ Yes

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: January 16, 2002

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

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:

A. Patent Application No(s).

09/986,973, filed November 13, 2001

B. Patent No(s).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL &amp; EMERY

Internal Address:

Street Address: 600 13<sup>th</sup> Street, N.W.

City: Washington State: DC Zip: 20005

6. Total number of applications and patents involved: 1

7. 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

January 28, 2002

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

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

02/06/2002 DBYRNE 00000138 500417 09986973

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40.00 CH

PATENT  
REEL: 012540 FRAME: 0110

Docket No.: 57454-266

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>Mako KOBAYASHI</u>	(4) _____	(7) _____
(2) <u>Fukashi MORISHITA</u>	(5) _____	(8) _____
(3) _____	(6) _____	(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

SEMICONDUCTOR DEVICE INCLUDING INTERNAL POTENTIAL GENERATING CIRCUIT  
ALLOWING TUNING IN SHORT PERIOD OF TIME AND REDUCTION OF CHIP AREA

(a) for which an application for United States Letters Patent was filed on November 13, 2001 and identified by United States Serial No. 09/986,973; or

(b) for which an application for United States Letters Patent was executed on \_\_\_\_\_.

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>Mako Kobayashi</u>	_____
Name: <u>Mako KOBAYASHI</u>	_____
2) <u>Fukashi Morishita</u>	_____
Name: <u>Fukashi MORISHITA</u>	_____
3) _____	_____
Name: _____	_____
4) _____	_____
Name: _____	_____
5) _____	_____
Name: _____	_____
6) _____	_____
Name: _____	_____
7) _____	_____
Name: _____	_____
8) _____	_____
Name: _____	_____
9) _____	_____
Name: _____	_____

January 16, 2002

January 16, 2002