

11-07-2001

Atty Docket No.: 215378US2/maba

FORM PTO-1595
1-31-92



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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Toshiaki IWAMATSU, Takashi IPPOSHI, Hideki NARUOKA,
Nobuyoshi, HATTORI, Shigeto MAEGAWA,
Yasuo YAMAGUCHI, and Takuji MATSUMOTO

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

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) and address(es) attached? Yes No

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: October 17, 2001

11-1-01

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: **October 17, 2001**

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

09/985020

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



22850

6. Total applications and patents involved: 1

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

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8. Deposit account number: 15-0030

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PATENT
REEL: 012296 FRAME: 0531

Assignment Of Application

WHEREAS, I (WE) Toshiaki IWAMATSU, Takashi IPPOSI, Hideki NARUOKA,

INSERT NAMES
AND RESIDENCE
ADDRESSES OF THE
INVENTORS:

Nobuyoshi HATTORI, Shigeto MAEGAWA, Yasuo YAMAGUCHI and Takuji MATSUMOTO,

all of

c/o MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, Marunouchi 2-chome, Chiyoda-ku,

TOKYO 100-8310 JAPAN

_____ respectively,

INSERT TITLE OF
INVENTION:

have invented certain new and useful improvements in: SEMICONDUCTOR DEVICE AND METHOD

INSERT DATE
IN-VENTIONS
SIGNED
DECLARATION:

OF MANUFACTURING THE SAME

for which an application for Letters Patent was executed on October 17, 2001

(Application No. _____ filed _____), and

INSERT NAME AND
ADDRESS OF
OTHER ASSIGNEE:

WHEREAS, MITSUBISHI DENKI KABUSHIKI KAISHA

(hereinafter referred to as "ASSIGNEE") having a place of business at: 2-3, Marunouchi

2-chome, Chiyoda-ku, TOKYO 100-8310 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 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 inventions, 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 grants(s) the firm if Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 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: October 17, 2001 _____
 (Signature of Inventor) Toshiaki IWAMATSU

Date: October 17, 2001 _____
 (Signature of Inventor) Takashi IPPOSHI

Date: October 17, 2001 _____
 (Signature of Inventor) Hideki NARUOKA

Date: October 17, 2001 _____
 (Signature of Inventor) Nobuyoshi HATTORI

Date: October 17, 2001 _____
 (Signature of Inventor) Shigeto MAEGAWA

Date: October 17, 2001 _____
 (Signature of Inventor) Yasuo YAMAGUCHI

Date: October 17, 2001 _____
 (Signature of Inventor) Takuji MATSUMOTO

Date: _____
 (Signature of Inventor)

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