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Attorney Docket No.: 005702-20054

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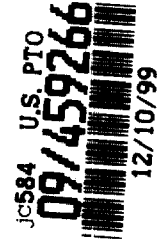
Naoto TOMITA
Hideo KATO
Takafumi IKEDA

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

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

KABUSHIKI KAISHA TOSHIBA
72 Horikawa-cho, Saiwai-ku
Kawasaki-shi, Japan

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



3. Nature of conveyance:

Assignment

Execution Date: December 6, 1999

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: December 6, 1999

A. Patent Application No.(s)

B. Patent No.(s)

09/459266

Additional numbers attached? Yes No

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

William H. Wright, Esq.
LOEB & LOEB LLP
10100 Santa Monica Blvd., 22nd Floor
Los Angeles, CA 90067-4164

6. Total number of applications and patents involved [1]

7. Total fee (37 CFR 3.41) \$40

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 Authorized to be charged to deposit account

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12-1820

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

William H. Wright, RN 36,312

Date: December 10, 1999

OMB No. 0651-0011 (exp. 4/94)

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A S S I G N M E N T

In consideration of value received, I, having a post office address at c/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled

**PULSE GENERATOR CIRCUIT AND SEMICONDUCTOR MEMORY
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said application having been filed on _____
and assigned Serial No. _____ ;
sell and assign to
KABUSHIKI KAISHA TOSHIBA
a corporation of Japan, having a business address at
72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent: (check one)

executed concurrently herewith;

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and in and to all applications for patent and patents for said invention, in all countries of the world, including all divisions, reissues, continuations, substitutions and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention in all countries.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U. S. Patent and Trademark Office for recordation of this document.

Loeb and Loeb LLP, 10100 Santa Monica Boulevard, Suite 2200,
Los Angeles, California 90067-4164.

ASSIGNMENT

99S0886

Inventor: (Signature)

Date

Residence

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DEC. - 6. 1999

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