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To the Assistant Commissioner **101256017** Original documents or copy thereof.

1. Name of conveying party(ies):
Koichi HIRAI
Katsumi ADACHI

Additional name(s) of conveying party(ies) attached?
 yes no

2. Name and address of receiving party(ies)?
MITSUBISHI DENKI KABUSHIKI KAISHA
2-3, Marunouchi 2-chome
Chiyoda-ku, Tokyo 100-8310
JAPAN

Additional name(s) & address(es) attached?
 yes no

3. Nature of Conveyance:
 Assignment Merger
 Security Agreement Change of Names
 Other _____

Execution Date: December 11, 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 11, 1999

A. Patent Application No.(s) 09. 481975	B. Patent No.(s)
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Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1

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

Robert J. Seas, Jr. Reg. No. 21,092 January 13, 2000
Robert J. Seas, Jr. Date

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JCS98 U.S. PTO
09/481975
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02/01/2000 DNGUYEN 00000247 09481975
01 FC:581 (40.00 GP)

**PATENT
REEL: 010509 FRAME: 0569**

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, _____
Koichi HIRAI and Katsumi ADACHI

hereby sells, assigns and transfers to

MITSUBISHI DENKI KABUSHIKI KAISHA

of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

(i) the application for United States Letters Patent entitled

ALTERNATOR

_____ the dates indicated below
which was executed by the undersigned on _____
or was filed on _____ and accorded Serial No.
_____ (hereinafter called the Application);

- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

Said Assignee of said patent application and the attorneys appointed to prosecute said patent application are authorized to insert in this instrument the filing date and serial number of said application.

The Commissioner of Patents and Trademarks is authorized to issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

INVENTOR(S) :	DATE
(Koichi HIRAI) _____ <i>Koichi Hirai</i>	_____ <i>Dec. 11, 1999</i>
(Katsumi ADACHI) _____ <i>Katsumi Adachi</i>	_____ <i>Dec. 11, 1999</i>
_____	_____
_____	_____
_____	_____