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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):
 Satoru AKUTSU
 Tetsunao TAKAKI
 Masafumi OKAZAKI
 Toshinori TANAKA
 Akira HASHIMOTO
 Kazuyuki YAMAMOTO
 Takeshi SUGIYAMA
 Hideki MEGATA

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

11/22/02

2. Name and address of receiving party(ies):
 MITSUBISHI DENKI KABUSHIKI KAISHA
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 Tokyo 100-8310
 JAPAN

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

J1050 U.S. PTO
 10/30/02
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3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: September 5, 2002

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: September 5, 2002

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

6. Total number of applications and patents involved:
 1

7. Total fee (37 CFR 3.41): \$40.00
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Robert J. Seas, Jr. Reg. No. 21,092

November 22, 2002
 Date

Total number of pages including cover sheet, attachments, and documents: 2
 Mail documents to be recorded with required cover sheet information to:
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PATENT REEL: 013519 FRAME: 0665

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, Satoru AKUTSU, Tetsunao TAKAKI, Masafumi OKAZAKI, Toshinori TANAKA, Akira HASHIMOTO, Kazuyuki YAMAMOTO, Takeshi SUGIYAMA and Hideki MEGATA 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 ROTATION ANGLE DETECTING APPARATUS

which was executed by the undersigned on the dates indicated below
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
(Satoru AKUTSU) <u>Satoru Akutsu</u>	<u>Sept. 5, 2002</u>
(Tetsunao TAKAKI) <u>Tetsunao Takaki</u>	<u>Sept. 5, 2002</u>
(Masafumi OKAZAKI) <u>Masafumi Okazaki</u>	<u>Sept. 5, 2002</u>
(Toshinori TANAKA) <u>Toshinori Tanaka</u>	<u>Sept. 5, 2002</u>
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(Takeshi SUGIYAMA) <u>Takeshi Sugiyama</u>	<u>Sept. 5, 2002</u>
(Hideki MEGATA) <u>Hideki Megata</u>	<u>Sept. 5, 2002</u>

PATENT

RECORDED: 11/22/2002

REEL: 013519 FRAME: 0666