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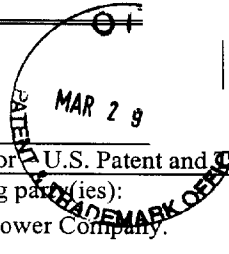
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To the Director U.S. Patent and Trademark Office. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
The Tokyo Electric Power Company.

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

2. Name and address of receiving party(ies)?
Sumitomo Electric Industries, Ltd.
5-33, Kitahama 4-Chome
Chuo-Ku, Osaka-shi, Osaka, 541-0041, Japan

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

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

Execution Date: February 23, 2001

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:
A. Patent Application No.(s)/Confirmation No.(s)
/

B. Patent No.(s)
5,248,662 and 5,372,089

Additional numbers attached? Yes No

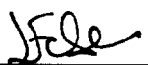
5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and registration involved:
1
7. Total Fee (37 CFR 3.41): \$80.00 (\$40.00 x 2)
 Enclosed. Please charge any underpayment in connection with this Assignment to Deposit Account No. 19-4880.
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8. Deposit Account No. 19-4880

(04/05/2001 DEYRNE 00000223 5248662
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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.

J. Frank Osha  Reg. No. 24,625
March 29, 2001 Date

TOTAL NUMBER OF PAGES COMPRISING COVER SHEET, ATTACHMENTS AND DOCUMENT: 2

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PATENT
REEL: 011641 FRAME: 0412

Assignment

Whereas, **The Tokyo Electric Power Company**, 4-1, Egasaki-Cho, Tsurumi-Ku, Yokohama, Kanagawa 230-8510 Japan, hereinafter referred to as "Assignor", is the owner of undivided one-half right, title and interest in United States Patents **No. 5,248,662** and **No. 5,372,089**

Whereas, **Sumitomo Electric Industries, Ltd.**, 5-33, Kitahama 4-Chome, Chuo-Ku, Osaka-shi, Osaka, 541-0041, Japan, hereinafter referred to as "Assignee", desire to acquire the entire right, title, and interest of the Assignor in the said U.S. Patents;

Now, therefore, for valuable consideration, receipt of which is hereby acknowledged, the above-named Assignor hereby sells, assigns and transfers to the above-named Assignee, its successors and assigns, the entire right, title and interest in the said U.S. Patents, and any reissues or re-examinations thereof, together with all claims for damages by reason of past infringement of the said U.S. Patents with the right to Assignee to sue for and collect the same for their own use and enjoyment.

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.

Assignor further covenants that upon request by the Assignee, Assignor will promptly provide to Assignee all pertinent facts and documents relating to the invention claimed in the said U.S. Patents and legal equivalents as may be known and accessible to Assignor, and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or its legal representative any and all papers instruments or affidavits required to apply for, obtain, maintain, issue and enforce the said U.S. Patents which may be necessary by Assignee.

The Tokyo Electric Power Company

Date: March. 12. 2001

By: Mikio Okada
Mikio Okada
Manager,
Intellectual Property Management Group,
Engineering Research and Development
Division