

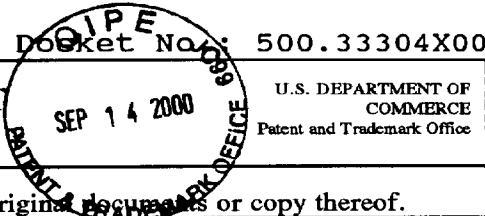
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U.S. DEPARTMENT OF  
COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents

1. Name of conveying party(ies):  
HITACHI DENSHEI KABUSHIKI KAISHA  
TOHOKU ELECTRIC POWER CO., INC.  
FUJI-TEKKU KABUSHIKI KAISHA

9-14-00

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: June 14, 1999 & July 2, 22, 1999

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

Name: Hitachi Denshi Kabushiki Kaisha and  
Tohoku Electric Power Co., Inc.

Street Address: 23-2, Sudacho-1-chome, Kanda, Chiyoda-  
ku and 3-7-1, Ichibancho, Aoba-ku, Sendai-shi, Miyagi-ken

City: Tokyo:

Country: Japan

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

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)

B. Patent No.(s)

5,633,862

May 27, 1997

Additional numbers attached? ☐ Yes ☒ No

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

Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP

Internal Address:

Street Address: 1300 North Seventeenth Street  
Suite 1800

City: Arlington State: VA Zip: 22209

6. Total number of applications and patents involved: 1

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

- ☒ Enclosed  
☒ Any deficiencies may be charged to deposit account  
☐ Authorized to be charged to deposit account

8. Deposit account number: 01-2135

(Attach duplicate copy of this page if paying by deposit account)

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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.*

Carl I. Brundidge

Name of Person Signing

Signature

September 14, 2000

Date

Attorney Registration No. 29,621

Total number of pages including cover sheet, attachments, and document: 2

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

09/29/2000 6TON11 0000049 5633862

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40.00 DP

PATENT  
REEL: 011111 FRAME: 0471

500.33304X00

ASSIGNMENT

WHEREAS, HITACHI DENSHI KABUSHIKI KAISHA, TOHOKU ELECTRIC POWER CO., INC., and FUJI-TEKKU KABUSHIKI KAISHA, are joint owners by assignment, recorded on Reel 7282, Frame 996, of United States of America Letters Patent No. 5,633,862 (hereinafter "said U.S. Letters Patent"), granted May 27, 1997, and the inventions covered thereby;

WHEREAS, said HITACHI DENSHI KABUSHIKI KAISHA is desirous of acquiring the rights, title and interest of FUJI-TEKKU KABUSHIKI KAISHA in, to and under said U.S. Letters Patent, and the inventions covered thereby in a manner such that said HITACHI DENSHI KABUSHIKI KAISHA would have a two-thirds ( $\frac{2}{3}$ ) share and said TOHOKU ELECTRIC POWER CO., INC., would have a one-third ( $\frac{1}{3}$ ) share of the whole of the rights, title and interest in, to and under said U.S. Letters Patent, and the inventions covered thereby; and

WHEREAS, said TOHOKU ELECTRIC POWER CO., INC., hereby consents to said HITACHI DENSHI KABUSHIKI KAISHA acquiring the rights, title and interest of said FUJI-TEKKU KABUSHIKI KAISHA in, to and under said U.S. Letters Patent, and the inventions covered thereby, in a manner such that said HITACHI DENSHI KABUSHIKI KAISHA would have a two-thirds ( $\frac{2}{3}$ ) share and TOHOKU ELECTRIC POWER CO., INC., would have a one-third ( $\frac{1}{3}$ ) share of the whole of the rights, title and interest in, to and under said U.S. Letters Patent, and the inventions covered thereby;

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, and other good and valuable consideration paid to said FUJI-TEKKU KABUSHIKI KAISHA, by said HITACHI DENSHI KABUSHIKI KAISHA, said FUJI-TEKKU KABUSHIKI KAISHA does hereby sell, assign transfer and set over to said HITACHI DENSHI KABUSHIKI KAISHA, their successors, assigns or other legal representatives, all of their rights, title and interest, in and for the United States of America, in, to and under said U.S. Letters Patent, and the inventions covered thereby, and any reissue or reissues of the said U.S. Letters Patent, in a manner such that said HITACHI DENSHI KABUSHIKI KAISHA has a two-thirds ( $\frac{2}{3}$ ) share and said TOHOKU ELECTRIC POWER CO., INC., has a one-third ( $\frac{1}{3}$ ) share of the whole of the rights, title and interest, in and for the United States of America, in, to and under said U.S. Letters Patent, and the inventions covered thereby;

WHEREIN said respective shares of the whole of the rights, title and interest, in, to and under said U.S. Letters Patent, and the invention covered thereby, to be held and enjoyed by said HITACHI DENSHI KABUSHIKI KAISHA and said TOHOKU ELECTRIC POWER CO., INC., are for their own use and enjoyment, and for the use and enjoyment of their successors, assigns or other legal representatives, to the full end of the term for said U.S. Letters Patent or said reissue or reissues as fully and entirely as the same would have been held and enjoyed by said HITACHI DENSHI KABUSHIKI KAISHA, said TOHOKU ELECTRIC POWER CO., INC., and said

FUJI-TEKKU KABUSHIKI KAISHA as joint owners, if this assignment and sale had not been made; and

WHEREIN said FUJI-TEKKU KABUSHIKI KAISHA, does hereby agree to sign and execute and to use its best efforts to cause the signing and execution of any further documents or instruments which may be necessary, lawful, and proper in the preparation and prosecution of any renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said HITACHI DENSHI KABUSHIKI KAISHA and said TOHOKU ELECTRIC POWER CO., INC.

IN TESTIMONY WHEREOF, the parties, have caused these presence to be signed by their Officers:

HITACHI DENSHI KABUSHIKI KAISHA

Tadaiku Yoneda  
 Name: Tadaiku YONEDA  
 Title: Deputy General Manager

July 2, 1999  
 Date

TOHOKU ELECTRIC POWER CO., INC.

Toshiaki Yashima  
 Name: Toshiaki YASHIMA  
 Title: Representative Director  
 & President

July 22, 1999  
 Date

FUJI-TEKKU KABUSHIKI KAISHA

Chizuko Sumi  
 Name: Chizuko SUMI  
 Title: President

June 14, 1999  
 Date