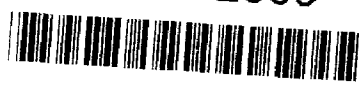




06-06-2006

Form PTO-1595 (Rev. 06/04)  
OMB No. 0651-0027 (exp. 6/30/2005)



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**1. Name of conveying party(ies)/Execution Date(s):**

- (1) Mayumi FUKUYAMA
- (2) Takao KONNO
- (3) Kazuhiro UMEKITA
- (4) Yoshihiro DOZONO
- (5) Toshihiko HORIUCHI
- (6) Michiya SAKAI
- (7) Yutaka HAGIWARA
- (8) Keizo OHTOMO

Execution Date(s) (1) Nov. 29, 2004, (2) Dec. 2, 2004,  
(3) Nov. 30, 2004, (4) Dec. 1, 2004, (5) Nov. 29, 2004,  
(6) Dec. 8, 2004, (7) Dec. 8, 2004 and (8) Dec. 9, 2004

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

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

HITACHI INDUSTRIES CO., LTD.  
13-17, Nakagawa 4-chome, Adachi-ku  
Tokyo, Japan

and

CENTRAL RESEARCH INSTITUTE OF ELECTRIC  
POWER INDUSTRY  
1-6-1, Ohtemachi, Chiyoda-ku  
Tokyo, Japan

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

**3. Nature of conveyance:**

- ☐ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Government Interest Assignment
- ☐ Executive Order 9424, Confirmatory License
- ☒ Other Re-record to add inadvertently omitted assignors' execution dates and second assignees' name and address on an assignment document previously recorded on reel 016133 and frame 0184.

**4. Application number(s) or patent number(s):** ☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/022,675

B. Patent Registration No.(s)

Additional number(s) attached? ☐ Yes ☐ No

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

Name: Crowell & Moring LLP  
Street Address: PO Box 14300  
City: Washington  
State: DC Zip: 20044-4300  
Phone Number: 202-624-2500  
Fax Number: 202-628-8844  
Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☒ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☐ Enclosed
- ☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers 1007  
Expiration Date 10/10  
b. Deposit Account Number \_\_\_\_\_  
Authorized User Name Crowell & Moring

**9. Signature:**

*Vincent J. Sunderrick*  
Signature

May 31, 2006  
Date

**VINCENT J. SUNDERICK**

James F. McKeown  
Name of Person Signing

06/02/2006 MBEYENE2 00000035 11022675

01 FC:0021 Total number of pages including cover sheet, attachments, and documents: 6 **40.00 OP**

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# ASSIGNMENT

( 譲渡証 )

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to Mayumi FUKUYAMA, Takao KONNO, Kazuhiro UMEKITA, Yoshihiro DOZONO, Toshihiko HORIUCHI, Michiya SAKAI, Yutaka HAGIWARA, and Keizo OHTOMO, citizens of Japan by HITACHI INDUSTRIES CO., LTD., and Central Research Institute of Electric Power Industry, corporations organized under the laws of Japan, located at 13-17, Nakagawa 4-chome, Adachi-ku, Tokyo, Japan, and 1-6-1, Ohtemachi, Chiyoda-ku, Tokyo, Japan, respectively, receipt of which is hereby acknowledged, we, the said Mayumi FUKUYAMA, Takao KONNO, Kazuhiro UMEKITA, Yoshihiro DOZONO, Toshihiko HORIUCHI, Michiya SAKAI, Yutaka HAGIWARA, and Keizo OHTOMO, do hereby sell and assign to said HITACHI INDUSTRIES CO., LTD., and Central Research Institute of Electric Power Industry, their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

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invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI INDUSTRIES CO., LTD., and Central Research Institute of Electric Power Industry, their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI INDUSTRIES CO., LTD., and Central Research Institute of Electric Power Industry.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

(発明者フルネームサイン)

Date Signed

(署名日)

1) <u>Mayumi Fukuyama</u>	<u>Nov. 29, 2004</u>
2) <u>Takao Konno</u>	<u>Dec. 2, 2004</u>
3) <u>Kazuhiro Umekita</u>	<u>Nov. 30, 2004</u>
4) <u>Yoshihiro Dozono</u>	<u>Dec. 1, 2004</u>
5) <u>Toshihiko Horieuchi</u>	<u>Nov. 29, 2004</u>
6) <u>Michiya Sakai</u>	<u>Dec. 8, 2004</u>
7) <u>Yutaka Hagiwara</u>	<u>Dec. 8, 2004</u>
8) <u>K. Ohtomo</u>	<u>Dec. 9, 2004</u>
9) _____	_____
10) _____	_____

PATENT

REEL: 017944 FRAME: 0406

01-12-2005

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OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE  
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102918486

PATENTS ONLY

Attorney Docket No. 100154.55787US

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)/Execution Date(s):

Mayumi FUKUYAMA  
Takao KONNO  
Kazuhiro UMEKITA  
Yoshihiro DOZONO  
Toshihiko HORIUCHI  
Michiya SAKAI  
Yutaka HAGIWARA  
Keizo OHTOMOExecution Date(s) November 29, 2004, November 30, 2004, December 1, 2004, December 2, 2004, December 8, 2004 and December 9, 2004Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒
- Assignment
- ☐
- Merger
- 
- ☐
- Security Agreement
- ☐
- Change of Name
- 
- ☐
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- ☐
- Executive Order 9424, Confirmatory License
- 
- ☐
- Other \_\_\_\_\_

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

Name: HITACHI INDUSTRIES CO., LTD.

Internal Address:

Street Address: 13-17, Nakagawa 4-chome  
Adachi-ku, Tokyo  
Japan

City: \_\_\_\_\_

State: \_\_\_\_\_

Country: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☒ Yes ☐ No4. Application number(s) or patent number(s): ☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent Registration No.(s)

01/03/2005 STEUMEL1 00000043 11022675

01 FC:8021

40.00 DP

Additional number(s) attached? ☐ Yes ☐ No

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

Name: Crowell & Moring LLP

Internal Address: \_\_\_\_\_

Street Address: PO Box 14300Washington

City: \_\_\_\_\_

State: DCZip: 20044-4300Phone Number: 202-624-2500Fax Number: 202-628-8844

Email Address: \_\_\_\_\_

## 6. Total number of applications and patents involved

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

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- Authorized to be charged by credit card
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- ☐
- Authorized to be charged to deposit account
- 
- ☒
- Enclosed
- 
- ☐
- None required (government interest not affecting title)

## 8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 05-1323Authorized User Name Crowell & Moring LLP

## 9. Signature:

  
Signature

12/28/2004

Date

James F. McKeown  
Name of Person SigningTotal number of pages including cover sheet, attachments, and documents: 3Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450PATENT  
REEL: 017944 FRAME: 0407

**2. Additional name and address of receiving party:**

**Central Research Institute of Electric Power Industry  
1-6-1, Ohtemachi, Chiyoda-ku  
Tokyo, Japan**