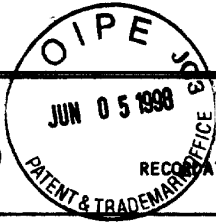


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Takayuki SHIMAMUNE, Masashi TANAKA, Shuhei WAKITA,
Takahiro ASHIDA and Yoshinori NISHIKI

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

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

Name:
PERMELEC ELECTRODE LTD.
Internal Address:
2023-15, Endo, Fujisawa-shi, Kanagawa, Japan
Street Address:
Same as above

City State Zip

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

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: February 27, 1998

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)

09/012,001

B. Patent No(s).

Additional numbers attached? Yes No

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

SUGHRUE, MIOW, ZINN, MACPEAK & SEAS
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Washington, D.C. 20037-3202

6. Total number of applications and patents involved:
One (1)

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Waddell A. Biggart
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June 5, 1998
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PATENT

REEL: 9224 FRAME: 0443

ASSIGNMENT

Whereas, I/We, Takayuki Shimamune of Tokyo, Japan;
Masashi Tanaka, Shuhei Wakita, Takahiro
Ashida and Yoshinori Nishiki all of
Kanagawa, Japan

ofx

hereinafter called assignor(s), have invented certain improvements in

ELECTROLYTIC CELL FOR ALKALI HYDROXIDE PRODUCTION
and executed an application for Letters Patent of the United States of America therefor on

February 27, 19 98; and

Whereas, PERMELEC ELECTRODE LTD. of
2023-15, Endo, Fujisawa-shi, Kanagawa, Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and
to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under
35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted
upon the invention set forth in the application to the assignee, its successors and assigns; and I/we
will execute without further consideration all papers deemed necessary by the assignee in connection
with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS
of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses
(Application number 09/012,001, filed January 22, 1998) the filing
date and application number of said application when known.

Date: 02/27/1998 s/ Takayuki Shimamune

Date: 02/27/1998 s/ Masashi Tanaka

Date: 02/27/1998 s/ Shuhei Wakita

Date: 02/27/1998 s/ Takahiro Ashida

Date: 02/27/1998 s/ Yoshinori Nishiki

Date: s/ _____

Date: s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)