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103127934

103127934 PCT/PTO 11 APR 2005

To the Honorable Commissioner of Patents and Trademarks, Please Record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kota KITAMURA
Yoshimitsu SAKAGUCHI
Shigenori NAGAHARA
Shiro HAMAMOTO
Naohiko TAKIMOTO
Hideki SUGIHARA
Satoshi TAKASE
Tooru KITAGAWA
Miyako NOSHIRO

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

2. Name and address of receiving party(ies)

Name: **TOYO BOSEKI KABUSHIKI KAISHA**

Internal Address:

Street Address: 2-8, Dojimahama 2-chome, Kita-ku

City: **Osaka-shii** State: **Osaka** Zip: **530-8230 JAPAN**

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

3. Nature of conveyance:

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

Execution Date: 08 April 2005 (all except Noshiro)
11 April 2005 Miyako NOSHIRO

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: 08 & 11 April 2005

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

John C. Altmiller
Kenyon & Kenyon
1500 K Street, NW
Suite 700
Washington, DC 20005

Attorney Docket No.: 12477/8

Customer No. 23838

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01 FO:8021 40.00 DA

6. Total number of applications and patents involved: 1

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

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

11-0600

(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.

John C. Altmiller

Name of Person Signing

Signature

11 April 2005

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 017267 FRAME: 0594

ASSIGNMENT

WHEREAS, we, (1) Kota KITAMURA, (2) Yoshimitsu SAKAGUCHI, (3) Shigenori NAGAHARA, (4) Shiro HAMAMOTO, (5) Naohiko TAKIMOTO, (6) Hideki SUGIHARA, (7) Satoshi TAKASE, (8) Tooru KITAGAWA, and (9) Miyako NOSHIRO, citizens of Japan, residing at (1)-(4) and (6)-(8) Otsu-shi, Shiga, Japan, (5) Yokohama-shi, Kanagawa, Japan and (9) Osaka-shi, Osaka, Japan (hereinafter referred to as "the Assignor"); have made new and useful improvements in an invention entitled Composite Ion Exchange Membrane, for which we are about to make application for Letters Patent in the United States, said application having been executed on even date hereof; and

WHEREAS, TOYO BOSEKI KABUSHIKI KAISHA, a corporation organized and existing under and by virtue of the laws of Japan, having its principle place of business at 2-8, Dojimahama 2-chome, Kita-ku, Osaka-shi, Osaka 530-8230 Japan, who, together with its successors and assigns, (hereinafter called "Assignee,") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

NOW, THEREFORE, in consideration of the equivalent of One U.S. Dollar (U.S. \$1.00) and other valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the Entire right, title, and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, including all divisional, renewal, substitute, and continuation applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of letters Patent granted for said inventions and discoveries or upon said applications.

2. Authorize and request the Assistant Commissioner for Patents of the United States of America to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

3. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance.

4. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 8th day of April, 2005.

Kota Kitamura
Kota KITAMURA

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 8th day of April, 2005.

Yoshimitsu Sakaguchi
Yoshimitsu SAKAGUCHI

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 8th day of April, 2005.

Shigenori Nagahara
Shigenori NAGAHARA

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 8th day of April, 2005.

Shiro Hamamoto
Shiro HAMAMOTO

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 8th day of April, 2005.

Naohiko Takimoto
Naohiko TAKIMOTO

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Hideki Sugihara
Hideki SUGIHARA

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 8th day of April, 2005.

Satoshi Takase
Satoshi TAKASE

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 8th day of April, 2005.

Tooru Kitagawa
Tooru KITAGAWA

IN TESTIMONY WHEREOF, I have hereunto set my hand and
seal this 11th day of April, 2005.

Miyako Noshiro
Miyako NOSHIRO