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To the Honorable Commissioner of



103001933

original documents or copy thereof.

1. Name of conveying party(ies):

Michinao HAYASHI, Tohru SUGITANI
and Yoshitaka ASANO

2. Name and address of receiving party(ies)

Name: NIPPON VALQUA INDUSTRIES, LTD.

Internal Address: _____

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

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

Street Address: 1-1 Nishishinjuku 2-chome,Shinjuku-ku, Tokyo 163-0406 JAPAN

City: _____

State: _____

Zip: _____

Execution Date: April 27, 2004Additional 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: April 27, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Kent E. BaldaufInternal Address: Webb Ziesenheim LogsdonOrkin & Hanson, P.C.Street Address: 700 Koppers Building436 Seventh AvenueCity: Pittsburgh State: PA Zip: 152196. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41)..... \$ 40

Enclosed with filing fee



Authorized to be charged to deposit account

8. Deposit account number:

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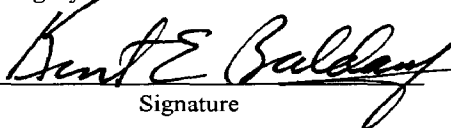
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9. Statement and signature.

*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.*Kent E. Baldauf, Reg. No. 25,826

Name of Person Signing



Signature

June 16, 2004

Date

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

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ASSIGNMENT

WHEREAS WE 1) Michinao HAYASHI, 2) Tohru SUGITANI and 3) Yoshitaka ASANO
residing in 1) c/o NIPPON VALQUA INDUSTRIES, LTD., 1-1, Nishishinjuku 2-chome,
Shinjuku-ku, Tokyo 163-0406, Japan, and ***
respectively, have invented certain new and useful improvements in the invention entitled
DIFFUSION MEMBRANE, ELECTRODE HAVING THE SAME, AND PROCESS FOR PRODUCING for
DIFFUSION MEMBRANES
which a patent application was filed in the United States Patent and Trademark Office on
and bears Serial No.

AND, NIPPON VALQUA INDUSTRIES, LTD., a corporation
of Japan, having a place of business at 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0406,
hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and
to said application and the inventions and improvements therein disclosed. Japan

NOW, THEREFORE, for good and valuable consideration paid to us by said
assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and
set over unto said assignee the entire right, title and interest in and to said application and the
inventions and improvements therein disclosed for the United States and all foreign countries and
any Letters Patent which may issue therefor in the United States and all foreign countries and all
divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said
assignee to have and to hold the interests herein assigned to the full ends of the terms of said
Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals,
and/or extensions thereof, respectively, as fully and entirely as the same would have been held
and enjoyed by us had this assignment not been made.

The Commissioner for Patents is requested to issue such Letters Patent in
accordance herewith. We covenant that we are the lawful owners of the said application,
inventions, and improvements, that the same are unencumbered, that no license has been granted
to make, use, or vend the said inventions or improvements or any of them, and that we have the
full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will
communicate to said assignee or the representatives thereof any facts known to us respecting said
inventions and improvements, and will, upon request, but without expense to us, testify in any
legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation,
continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and
generally do all other and further lawful acts, deemed necessary or expedient by said assignee or
by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits
from the rights and interests herein assigned. This assignment shall be binding upon our heirs,
executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors,
administrators, successors, and/or assigns, as the case may be, of said assignee.

Date April 27, 2004 Inventor Michinao Hayashi

Date April 27, 2004 Inventor Tohru Sugitani

Date April 27, 2004 Inventor Yoshitaka Asano

Date _____ Inventor _____

***2) & 3) c/o NIPPON VALQUA INDUSTRIES, LTD. Nara Factory, 5-2,
Techno Park Nara Kogyo Danchi, Sugawa-cho, Gojo-shi, Nara 637-0014, Japan