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FORM PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

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

<p>1. Name of conveying party(ies): Yoshihiko MORIKAWA Kazunori SENBIKI Nobuhiro YAMAZAKI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <b>EBARA DENSAN LTD.</b></p> <p>Internal Address:</p> <p>Street Address: 11-1, Haneda Asahicho, Ohta-ku</p> <p>City: Tokyo State: Zip:</p> <p>Country: JAPAN</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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JCI35 U.S. PTO  
09/327800  
06/08/99

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: May 18, 1999

A. Patent Application No.(s)	B. Patent No.(s) <u>09/327800</u>
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Additional numbers attached? ☐ Yes ☒ No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Arnold H. KRUMHOLZ</p> <p>Internal Address: LERNER, DAVID, LITTENBERG, KRUMHOLZ &amp; MENTLIK, LLP</p> <p>Street Address: 600 South Avenue West</p> <p>City: Westfield State: NJ ZIP: 07090</p>	<p>6. Total Number of applications and patents involved: <u>1</u></p> <p>7. Total Fee (37 CFR 3.41).....\$ <u>40.00</u></p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>12-1095</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>
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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.*

Arnold H. KRUMHOLZ (Name of Person Signing)	 (Signature)	June 8, 1999 (Date)
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Total number of pages including cover sheet, attachments, and document: 2

Mail documents to be recorded with required cover sheet information to:

U.S. Patent and Trademark Office, Office of Public Records, Crystal Gateway 4, Room 335, Washington, DC 20231  
Attention: Assignments

PATENT  
REEL: 010027 FRAME: 0011

ASSIGNMENT

WHEREAS, Yoshihiko MORIKAWA, Kazunori SENBIKI and Nobuhiro YAMAZAKI

as assignor(s), has/have invented improvements in LIQUID ETCHANT AND METHOD FOR ROUGHENING COPPER SURFACE

  X   for which an Application for United States Letters Patent has been executed by me on even date herewith.

       for which U.S. Application Serial No. \_\_\_\_\_ for Letters Patent was filed in the U.S. Patent and Trademark Office.

       for which an International Application was filed on \_\_\_\_\_ as \_\_\_\_\_, designating the United States.

AND WHEREAS, EBARA DENSAN Ltd., a corporation of Japan, having a principal place of business at 11-1, Haneda Asahicho, Ohta-ku, Tokyo, Japan as assignee, is desirous of acquiring all right, title and interest in and to said invention and any Letters Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I as assignor hereby sell, assign and set over to said assignees the entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid application for Letters Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignees herein, as assignees of the entire interest therein; and the undersigned for himself/themselves and his/their legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignees or its assigns, to communicate to said assignees or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignees, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignees.

And I/we do hereby authorize my/our attorneys to insert on this deed the filing date and serial number of said application when known.

May 18, 1999

Date

M. Harano

Witness

Y. Morikawa

Name Yoshihiko MORIKAWA

May 18, 1999

Date

M. Harano

Witness

K. Senbiki

Name Kazunori SENBIKI

May 18, 1999

Date

M. Harano

Witness

N. Yamazaki

Name Nobuhiro YAMAZAKI

Date

Name

Witness