**PATENT ASSIGNMENT**

Electronic Version v1.1
Stylesheet Version v1.1

**SUBMISSION TYPE:** NEW ASSIGNMENT

**NATURE OF CONVEYANCE:** ASSIGNMENT

**CONVEYING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xinming Wang</td>
<td>02/18/2011</td>
</tr>
<tr>
<td>Fumitoshi Oikawa</td>
<td>02/18/2011</td>
</tr>
<tr>
<td>Haruko Ono</td>
<td>02/18/2011</td>
</tr>
<tr>
<td>Teruaki Hombo</td>
<td>02/18/2011</td>
</tr>
</tbody>
</table>

**RECEIVING PARTY DATA**

<table>
<thead>
<tr>
<th>Name</th>
<th>Ebara Corporation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address</td>
<td>11-1, Haneda Asahi-cho, Ohta-ku</td>
</tr>
<tr>
<td>City</td>
<td>Tokyo</td>
</tr>
<tr>
<td>State/Country</td>
<td>JAPAN</td>
</tr>
</tbody>
</table>

**PROPERTY NUMBERS Total: 1**

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Number</td>
<td>13037487</td>
</tr>
</tbody>
</table>

**CORRESPONDENCE DATA**

Fax Number: (202)721-8250

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 2027218200

Email: wlp@wenderoth.com

Correspondent Name: Wenderoth, Lind & Ponack, L.L.P.

Address Line 1: 1030 15th Street, N.W.

Address Line 2: Suite 400 East

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

**ATTORNEY DOCKET NUMBER:** 2011-0305A

**NAME OF SUBMITTER:** Patricia T. Hill

Total Attachments: 2

source=ASSIGNMENT#page1.tif

501452468

PATENT
REEL: 025878 FRAME: 0403
ASSIGNMENT

In consideration of the sum of One Dollar ($1.00) and other good and valuable consideration paid to each of the undersigned

Xinming WANG, Fumitoshi OIKAWA, Haruko ONO and
Teruaki HOMBO

the undersigned hereby sell(s) and assign(s) to
EBARA CORPORATION

of 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, Japan

(herinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

METHOD AND APPARATUS FOR CLEANING SUBSTRATE

for which an application for patent in the United States has been executed by the undersigned on February 18, 2011

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 1030 15th Street, N.W., Suite 400 East, Washington, D.C. 20005-1503, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordal of this document.
In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date February 18, 2011, Name of Inventor. Xinning Wang

Date February 18, 2011, Name of Inventor. Fumitoshi Oikawa

Date February 18, 2011, Name of Inventor. Haruko Ono

Date February 18, 2011, Name of Inventor. Teruki Hombo

Date _______________________, Name of Inventor.

Date _______________________, Name of Inventor.

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Grasopri, Sato

Witness Seto, Harada

ACKNOWLEDGMENT

This ______________________ day of ______________________, 20__, before me personally came the above-named person as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

Official Signature

____________________________

Official Title

____________________________

The above application may be more particularly identified as follows:

U.S. Application Serial No.: ___________________________ Filing Date: ___________________________  
Applicant Reference Number: ___________________________ Attorney Docket No.: ___________________________  
Title of the Invention

____________________________