

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|--|---------------------------------|---------------|-------------------|---------------------|---------------------------------|------------------|------------|----------------|------------|----------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hiroyuki SHINOZAKI</td> <td>05/14/2012</td> </tr> <tr> <td>Takahiro SHIMANO</td> <td>05/14/2012</td> </tr> <tr> <td>Akira IMAMURA</td> <td>05/14/2012</td> </tr> <tr> <td>Akira NAKAMURA</td> <td>05/14/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Hiroyuki SHINOZAKI | 05/14/2012 | Takahiro SHIMANO | 05/14/2012 | Akira IMAMURA | 05/14/2012 | Akira NAKAMURA | 05/14/2012 |
| Name | Execution Date | | | | | | | | | | |
| Hiroyuki SHINOZAKI | 05/14/2012 | | | | | | | | | | |
| Takahiro SHIMANO | 05/14/2012 | | | | | | | | | | |
| Akira IMAMURA | 05/14/2012 | | | | | | | | | | |
| Akira NAKAMURA | 05/14/2012 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>EBARA CORPORATION</td> </tr> <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> </table> | | Name: | EBARA CORPORATION | Street Address: | 11-1, Haneda Asahi-cho, Ohta-ku | City: | Tokyo | State/Country: | JAPAN | | |
| Name: | EBARA CORPORATION | | | | | | | | | | |
| Street Address: | 11-1, Haneda Asahi-cho, Ohta-ku | | | | | | | | | | |
| City: | Tokyo | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13479575</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13479575 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13479575 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: (202)721-8250 Phone: 2027218200 Email: wlp@wenderoth.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>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</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2012-0746A | | | | | | | | | | |
| NAME OF SUBMITTER: | Patricia T. Hill | | | | | | | | | | |
| <p>Total Attachments: 2 source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif</p> | | | | | | | | | | | |

OP \$40.00 13479575

ASSIGNMENT

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

Insert Name(s) Hiroyuki SHINOZAKI, Takahiro SHIMANO, Akira IMAMURA and
of Akira NAKAMURA
Inventor(s) _____

Insert Name(s) the undersigned hereby sell(s) and assign(s) to
of EBARA CORPORATION
Assignee(s) _____

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

(hereinafter 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

Title of METHOD AND APPARATUS FOR MONITORING A POLISHING SURFACE
Invention OF A POLISHING PAD USED IN POLISHING APPARATUS

Date of for which an application for patent in the United States has been executed by the undersigned
Signing of on May 14, 2012
Application _____

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 May 14, 2012, Name of Inventor Hirooyuki Shinozaki Hirooyuki SHINOZAKI
 Date May 14, 2012, Name of Inventor Takahiro Shimano Takahiro SHIMANO
 Date May 14, 2012, Name of Inventor Akira Imamura Akira IMAMURA
 Date May 14, 2012, Name of Inventor Akira NAKAMURA Akira NAKAMURA
 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 S. Utsobe
 Witness Junji Kunitzawa

ACKNOWLEDGMENT

 _____ } ss

This _____ day of _____, 20____,
 before me personally came the above-named
 _____ to me personally known 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.

SEAL

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

