

PATENT ASSIGNMENT

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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>Yasumasa HIROO</td> <td>03/29/2013</td> </tr> <tr> <td>Yoichi KOBAYASHI</td> <td>03/29/2013</td> </tr> <tr> <td>Katsutoshi ONO</td> <td>03/29/2013</td> </tr> </tbody> </table>		Name	Execution Date	Yasumasa HIROO	03/29/2013	Yoichi KOBAYASHI	03/29/2013	Katsutoshi ONO	03/29/2013
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<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
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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>13859496</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13859496				
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CORRESPONDENCE DATA									
<p>Fax Number: 2155683439 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (215) 568-3100 Email: assignments@woodcock.com Correspondent Name: Michael J. Swope Address Line 1: 2929 Arch Street Address Line 2: 12th Floor Address Line 4: Philadelphia, PENNSYLVANIA 19104-2891</p>									
ATTORNEY DOCKET NUMBER:	EBMZ-0004								
NAME OF SUBMITTER:	Laura Rae Workman								
Signature:	/Laura Rae Workman/								
Date:	05/17/2013								

CH \$40.00 13859496

Total Attachments: 6

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ASSIGNMENT

WHEREAS, I, Yasumasa HIROO citizen of Japan, residing at c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, Japan, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number ("the invention"), which is entitled "POLISHING APPARATUS AND POLISHING METHOD" ("the subject application"), and which claims priority to Japanese patent application number 2012-89585 filed April 10, 2012 ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

AND WHEREAS, EBARA CORPORATION, ASSIGNEE, having a place of business at 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, Japan, is desirous of obtaining my entire right, title, and interest in, to, and under the invention:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the ASSIGNOR, hereby sell, assign, transfer, and set over, unto the ASSIGNEE, its successors, legal representatives, and assigns, my entire right, title, and interest in, to, and under the invention, and all applications for industrial property protection, including without limitation, all applications for patents, utility models, inventors' certificates, and designs that have been filed, and that may hereafter be filed, in any country, that disclose, describe, and/or claim the invention, including, without limitation, the subject application and the priority application, and all extensions, renewals, and reissues of such applications, including all divisions and continuations in whole or in part; all patents granted on such applications in any country, and all extensions, renewals, and reissues of such patents, including all divisions and continuations in whole or in part; the right to file such applications in any country; and the right to claim for such applications in any country the priority rights derived from the priority application and the subject application under the International Convention for the Protection of Industrial Property, the Patent Laws of the United States, any other international agreement or protection, or the domestic laws of any country in which any such application is filed, as may be applicable.

AND I HEREBY covenant and agree that I have full right to convey my entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith.

AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, and foreign applications, make all rightful oaths, deliver upon request all papers, documents, affidavits, or other instruments that may be necessary or helpful in the prosecution of any application for industrial property protection describing and/or claiming the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal

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representatives, and assigns, to obtain and enforce proper protection for the invention in all countries.

IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 29th day of March, year of 2013.

Yasumasa Hiroo

Signature (Yasumasa HIROO)

STATEMENT OF WITNESS

SIGNED at _____

(City)

(Country)

This _____ day of _____, 201__.

I, _____ whose full

residence address is _____

_____ was personally present and did see _____ execute the above assignment on the _____ day of _____, 201__, and such assignor is personally known to me to be the person described in such document.

Signature of Witness

The foregoing assignment covers patent application number 13/859496, filed on April 9, 2013.

/Michael J. Swope/
Name of Attorney: Michael J. Swope
Registration No.: 38,041
Date of Insertion: April 19, 2013

ASSIGNMENT

WHEREAS, I, Yoichi KOBAYASHI citizen of Japan, residing at c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, Japan, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number ("the invention"), which is entitled "POLISHING APPARATUS AND POLISHING METHOD" ("the subject application"), and which claims priority to Japanese patent application number 2012-89585 filed April 10, 2012 ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

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IN TESTIMONY WHEREOF, I have signed my name below on the date indicated above my signature.

Executed this 29th day of March, year of 2013.

Yoichi Kobayashi

Signature (Yoichi KOBAYASHI)

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SIGNED at _____

(City) _____ (Country) _____

This _____ day of _____, 201__.

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_____ was personally present and did see _____ execute the above assignment on the _____ day of _____, 201__, and such assignor is personally known to me to be the person described in such document.

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/Michael J. Swope/

Name of Attorney: Michael J. Swope

Registration No.: 38,041

Date of Insertion: April 19, 2013

ASSIGNMENT

WHEREAS, I, Katsutoshi ONO citizen of Japan, residing at c/o Ebara Corporation, 11-1, Haneda Asahi-cho, Ohta-ku, Tokyo, Japan, ASSIGNOR, am an inventor of one or more inventions disclosed, described and/or claimed in the application referred to as Docket Number ("the invention"), which is entitled "POLISHING APPARATUS AND POLISHING METHOD" ("the subject application"), and which claims priority to Japanese patent application number 2012-89585 filed April 10, 2012 ("the priority application"). I authorize and direct any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the final paragraph of this assignment.

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Executed this 29th day of March, year of 2013.

Katsutoshi Ono

Signature (Katsutoshi ONO)

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SIGNED at _____

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residence address is _____

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