

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

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|   |                                |
|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| TOSHIHARU NAKAZAWA  | 06/12/2014                     |
| TETSURO SUGIURA   | 06/12/2014                     |
| KOHTARO KAWAMURA  | 06/12/2014                     |
| TOYOJI SHINOHARA  | 06/12/2014                     |
| TAKASHI KYOTANI   | 06/12/2014                     |
| KEIICHI ISHIKAWA  | 06/12/2014                     |
| SEIJI KASHIWAGI   | 06/12/2014                     |
| YASUHIKO SUZUKI   | 06/12/2014                     |
| HIDEO ARAI  | 06/12/2014                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | EBARA CORPORATION              |
| <b>Street Address:</b>  | 11-1 HANEDA ASAHI-CHO, OHTA-KU |
| <b>City:</b>  | TOYKO                          |
| <b>State/Country:</b>   | JAPAN                          |
| <b>Postal Code:</b>   | 144-8510                       |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| Application Number:   | 15926844                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (206)624-7317                  |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                |
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| <b>Address Line 1:</b>  | 999 THIRD AVENUE SUITE 3600    |
| <b>Address Line 4:</b>  | SEATTLE, WASHINGTON 98104      |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 101716.000178                  |
| <b>NAME OF SUBMITTER:</b>   | MANDY XIONG                    |

|   |               |
|---|---------------|
| <b>SIGNATURE:</b>   | /Mandy Xiong/ |
| <b>DATE SIGNED:</b>   | 03/20/2018    |
| <b>Total Attachments: 18</b><br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page1.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page2.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page3.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page4.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page5.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page6.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page7.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page8.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page9.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page10.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page11.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page12.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page13.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page14.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page15.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page16.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page17.tif<br>source=101716_000178_-_Assignment_From_parent_101716-000075_Assignments_#page18.tif |               |

**ASSIGNMENT**

WHEREAS, I, Toshiharu NAKAZAWA, a 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 101716.000075 (“the invention”), which is entitled “VACUUM PUMP WITH ABATEMENT FUNCTION” (“the subject application”), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 (“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

DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Toshiharu Nakazawa  
Signature (Toshiharu NAKAZAWA)

\*\*\*\*\*

**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 14/289,575, filed on  
May 28, 2014.

/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014

**ASSIGNMENT**

WHEREAS, I, Tetsuro SUGIURA, a 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 101716.000075 ("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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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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

DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Tetsuro Sugiura  
Signature (Tetsuro SUGIURA)

\*\*\*\*\*

**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 14/289,575, filed on  
May 28, 2014.

\_\_\_\_\_  
/Michael J. Swope/  
Name of Attorney: **Michael J. Swope**  
Registration No.: **38,041**  
Date of Insertion: **June 20, 2014**

**ASSIGNMENT**

WHEREAS, I, Kohtaro KAWAMURA, a 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 101716.000075 ("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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.

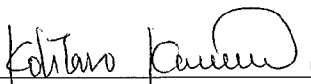
AND I HEREBY further covenant and agree that I will communicate to the ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me respecting the invention, and testify in any legal proceeding, sign all lawful papers, execute all disclaimers and all divisional, continuing, reissue, 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

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the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

  
\_\_\_\_\_  
Signature (Kohtaro KAWAMURA)

\*\*\*\*\*

**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 14/289,575, filed on  
May 28, 2014.

\_\_\_\_\_  
/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014



DOCKET NO.: 101716.000075

### ASSIGNMENT

WHEREAS, I, Toyoji SHINOHARA, a 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 101716.000075 (“the invention”), which is entitled “VACUUM PUMP WITH ABATEMENT FUNCTION” (“the subject application”), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 (“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

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the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Toyaji Shinozaki  
Signature (Toyaji SHINOHARA)

\*\*\*\*\*

**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 14/289,575, filed on  
May 28, 2014.

\_\_\_\_\_  
/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014

**ASSIGNMENT**

WHEREAS, I, Takashi KYOTANI, a 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 101716.000075("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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.

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the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Takashi Kyotani  
Signature (Takashi KYOTANI)

\*\*\*\*\*

**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 14/289,575, filed on May 28, 2014.

/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014

**ASSIGNMENT**

WHEREAS, I, Keiichi ISHIKAWA, a 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 101716.000075 ("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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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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.

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DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Keiichi Ishikawa  
Signature (Keiichi ISHIKAWA)

\*\*\*\*\*

**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  
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person described in such document.

\_\_\_\_\_  
Signature of Witness

\*\*\*\*\*

The foregoing assignment covers patent application number 14/289,575, filed on  
May 28, 2014.

\_\_\_\_\_  
/Michael J. Swope/  
Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014

**ASSIGNMENT**

WHEREAS, I, Seiji KASHIWAGI, a 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 101716.000075("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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

DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Seiji Kashiwagi

Signature (Seiji KASHIWAGI)

\*\*\*\*\*

**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 14/289,575, filed on May 28, 2014.

/Michael J. Swope/

Name of Attorney: Michael J. Swope

Registration No.: 38,041

Date of Insertion: June 20, 2014



**ASSIGNMENT**

WHEREAS, I, Yasuhiko SUZUKI, a 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 101716.000075("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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

DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.

Yasuhiko Suzuki

Signature (Yasuhiko SUZUKI)

\*\*\*\*\*

**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 14/289,575, filed on May 28, 2014.

/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014

**ASSIGNMENT**

WHEREAS, I, Hideo ARAI, a 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 101716.000075 ("the invention"), which is entitled "VACUUM PUMP WITH ABATEMENT FUNCTION" ("the subject application"), and which claims priority to Japanese patent application number 2013-114275 filed May 30, 2013 ("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

DOCKET NO.: 101716.000075

the invention, and generally do everything possible to aid the ASSIGNEE, its successors, legal 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 12th day of June, year of 2014.



Signature (Hideo ARAI)

\*\*\*\*\*

**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 14/289,575, filed on May 28, 2014.

/Michael J. Swope/

Name of Attorney: Michael J. Swope  
Registration No.: 38,041  
Date of Insertion: June 20, 2014