

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2683727

| 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>NANA TAKEUCHI</td> <td>11/27/2013</td> </tr> <tr> <td>SEIJI FUKUDA</td> <td>11/27/2013</td> </tr> <tr> <td>RYOJI OKUDA</td> <td>11/27/2013</td> </tr> <tr> <td>SHIGETAKA KASAI</td> <td>11/29/2013</td> </tr> </tbody> </table> | | Name | Execution Date | NANA TAKEUCHI | 11/27/2013 | SEIJI FUKUDA | 11/27/2013 | RYOJI OKUDA | 11/27/2013 | SHIGETAKA KASAI | 11/29/2013 |
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| <table border="1"> <tr> <td>Name:</td> <td>TORAY INDUSTRIES, INC.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, NIHONBASHI-MUROMACHI 2-CHOME, CHUO-KU</td> </tr> <tr> <td>City:</td> <td>TOKYO</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>103-8666</td> </tr> </table> | | Name: | TORAY INDUSTRIES, INC. | Street Address: | 1-1, NIHONBASHI-MUROMACHI 2-CHOME, CHUO-KU | City: | TOKYO | State/Country: | JAPAN | Postal Code: | 103-8666 |
| Name: | TORAY INDUSTRIES, INC. | | | | | | | | | | |
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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>14232785</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 14232785 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 14232785 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| <p>Fax Number: (703)205-8050 Phone: (703)205-8000 Email: mailroom@bskb.com, Kleithon.G.Sayson@bskb.com <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> Correspondent Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Address Line 1: P.O. BOX 747 Address Line 4: FALLS CHURCH, VIRGINIA 22040-0747</p> | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2611-0433PUS1 | | | | | | | | | | |
| NAME OF SUBMITTER: | KLEITHON SAYSON | | | | | | | | | | |
| Signature: | /kleithon sayson/ | | | | | | | | | | |
| Date: | 01/15/2014 | | | | | | | | | | |
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Attorney Docket No.: 2611-0433PUS1

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by
(Insert Name(s) & Address(es) of ASSIGNEE(S))

TORAY INDUSTRIES, INC.

1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 103-8666 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled
(Title of Invention)

POLISHING PAD

relating to International Patent Application PCT/JP2012/067840 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on 11/27/2013; 11/29/2013; (Insert date of execution of application, if not concurrent)

(b) filed on January 14, 2014

Serial No. 14 / 232,785;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

| | | |
|------------------------------------------|---------------------------------------|----------------------------------|
| 1) <u>Nana Takeuchi</u> (Signature) | <u>Nana TAKEUCHI</u> (Type Name) | <u>Nov / 27 / 2013</u> (Date) |
| 2) <u>Seiji Fukuda</u> (Signature) | <u>Seiji FUKUDA</u> (Type Name) | <u>Nov / 27 / 2013</u> (Date) |
| 3) <u>Ryoji Okuda</u> (Signature) | <u>Ryoji OKUDA</u> (Type Name) | <u>Nov / 27 / 2013</u> (Date) |
| 4) <u>Shigetaka Kasai</u> (Signature) | <u>Shigetaka KASAI</u> (Type Name) | <u>Nov / 29 / 2013</u> (Date) |
| 5) _____ (Signature) | _____ (Type Name) | _____ (Date) |