**PATENT ASSIGNMENT**

Electronic Version v1.1  
Stylesheet Version v1.1

### CONVEYANCE TYPE:  NEW ASSIGNMENT

### NATURE OF CONVEYANCE:  ASSIGNMENT

### CONVEYING PARTY DATA

<table>
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<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>Yousuke ISOWAKI</td>
<td>04/18/2013</td>
</tr>
<tr>
<td>Hitoshi IWASAKI</td>
<td>04/18/2013</td>
</tr>
<tr>
<td>Masayuki TAKAGISHI</td>
<td>04/18/2013</td>
</tr>
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### RECEIVING PARTY DATA

<table>
<thead>
<tr>
<th>Name:</th>
<th>KABUSHIKI KAISHA TOSHIBA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street Address:</td>
<td>1-1, Shibaura 1-chome, Minato-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>105-8001</td>
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### PROPERTY NUMBERS Total: 1

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<tr>
<td>Application Number</td>
<td>13939799</td>
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### CORRESPONDENCE DATA

Fax Number: 7038164100  
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7038164000  
Email: cmg@nixonvan.com  
Correspondent Name: NIXON & VANDERHYE PC  
Address Line 1: 901 North Glebe Road 11th Floor  
Address Line 4: Arlington, VIRGINIA 22203

### ATTORNEY DOCKET NUMBER:  MJS-5137-31

### NAME OF SUBMITTER:  Michael J. Shea

Signature: /Michael J. Shea/  
Date: 07/11/2013
This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2
source=5137_31_COMBINED_Declaration_and_Assignment#page1.tif
source=5137_31_COMBINED_Declaration_and_Assignment#page2.tif
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Declaration Submitted With Initial Filing

OR

Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)

MAGNETO-RESISTANCE EFFECT ELEMENT, MAGNETIC HEAD, MAGNETIC HEAD ASSEMBLY, MAGNETIC RECORDING AND REPRODUCING APPARATUS, AND METHOD FOR MANUFACTURING MAGNETO-RESISTANCE EFFECT ELEMENT

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

☒ The attached application,

OR

☐ United States Application Number or PCT International application number

filed on ____________________________

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.

WHEREAS, KABUSHIKE KAISHA TOSHIBA (hereinafter ASSIGNEE), a corporation of the Country of Japan, having an office and place of business at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars ($10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the international Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhyu P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

LEGAL NAME OF SOLE OR FIRST INVENTOR:
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Yousuke ISOWAKI

Inventor's Signature: Yousuke ISOWAKI Date: April 18, 2013

[X] Additional inventors are being named on the one supplemental sheet(s) PTO/AIA/10 attached hereto

(Page 1 of 2)

"Note: PTO Rules state "A person may not execute an oath or declaration for an application unless that person has reviewed and understands the contents of the application, including the claims, and is aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in [37 CFR § 1.56]."
### Additional Inventor(S)

**Legal Name of Additional Joint Inventor, if any:**

<table>
<thead>
<tr>
<th>Given Name (first and middle if any)</th>
<th>Family Name or Surname</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hitoshi</td>
<td>IWASAKI</td>
</tr>
<tr>
<td>Inventor's Signature:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td>April 18, 2013</td>
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</table>

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<thead>
<tr>
<th>Given Name (first and middle if any)</th>
<th>Family Name or Surname</th>
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<tbody>
<tr>
<td>Masayuki</td>
<td>TAKAGISHI</td>
</tr>
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<td>Inventor's Signature:</td>
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**Recorded:** 07/11/2013

**Patent**

**Reel:** 030780  **Frame:** 0319