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| 2 Kazuto KASHIWAGI 6   | 1) Name: KABUSHIKI KAISHA TOSHIBA  |  |  |
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| Additional name/s of conveying party/ies attached?   | State/Country. Japan 21p. 105 0001   |  |  |
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| Execution Date: Inv. 1) 12/4/2008; Inv. 2, 4 and 5) 12/8/08; Inv. 3) 12/11/08.                           | Additional name/s & address/es attached?  Yes No   |  |  |
| 4. Application number(s) or patent number(s):  | I is assignment is being filed together with a new application.  |  |  |
| A. Patent Application No(s).   | B. Patent No(s).   |  |  |
| (1) 12/292,564   | (1)  |  |  |
| (2)  | (2)  |  |  |
| (3)  | (3)  |  |  |
| Additional numbers a   |  |  |  |
| 5. Name and address of party to whom correspondence  | 6. Total number of applications & patents involved:1   |  |  |
| concerning document should be mailed:  |  |  |  |
|  | 7. Total fee (37 CFR 3.41) \$ 40.00  |  |  |
| Name: Michael J. Shea  | Enclosed   |  |  |
|  | Authorized to be charged to deposit account #14-1140   |  |  |
| Internal Address:  |  |  |  |
|  | 8. The Commissioner is hereby authorized to charge any   |  |  |
| Street Address: Nixon & Vanderhye P.C.   | deficiency in the fee(s) filed, or asserted to be filed, or which  |  |  |
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| 11th Floor   | filed in this application by this firm) to our <b>Account No.</b>  |  |  |
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| of the original document.  |  |  |  |
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| Michael J. Shea  | Thea January 6, 2009   |  |  |
| Name of Person Signing   | gnature Date   |  |  |
| Reg. No. 34,725  |  |  |  |
| Total number of pages including <b>original</b> cover sheet, attachments, and document: [3]              |  |  |  |
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PATENT REEL: 022094 FRAME: 0721 In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

MAGNETIC RECORDING MEDIUM, METHOD AND APPARATUS FOR MANUFACTURING MAGNETIC RECORDING MEDIUM, AND MAGNETIC RECORDING APPARATUS

have sold and assigned and do hereby sell and assign to KABUSHIKI KAISHA TOSHIBA a Japanese corporation, having a business address at 1·1, Shibaura 1·chome, Minato-ku, Tokyo 105·8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

| (check one) | [X] | executed concurrently herewith |         |   |
|-------------|-----|--------------------------------|---------|---|
|             | [ ] | executed on                    | ;       |   |
|             | [ ] | Application No.                | , filed | , |

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document.

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PATENT REEL: 022094 FRAME: 0722

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| ) tiroguki ) tieda   | 4. Dec. 2008                                |  |  |
| Hiroyuki Hieda   | Date:                                       |  |  |
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| Hogrito Hashimagi  | 8. Dec. 2008                                |  |  |
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PATENT REEL: 022094 FRAME: 0723

**RECORDED: 01/06/2009**