

## PATENT ASSIGNMENT

Electronic Version v1.1

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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>Masahiko YAMAKAWA</td> <td>03/01/2012</td> </tr> <tr> <td>Yasuhiro SHIRAKAWA</td> <td>03/01/2012</td> </tr> <tr> <td>Hajime TAKEUCHI</td> <td>03/01/2012</td> </tr> </tbody> </table>  |   | Name          | Execution Date              | Masahiko YAMAKAWA   | 03/01/2012                                | Yasuhiro SHIRAKAWA | 03/01/2012   | Hajime TAKEUCHI | 03/01/2012 |              |          |
| Name   | Execution Date                            |               |                             |                     |   |                    |              |                 |            |              |          |
| Masahiko YAMAKAWA  | 03/01/2012                                |               |                             |                     |   |                    |              |                 |            |              |          |
| Yasuhiro SHIRAKAWA   | 03/01/2012                                |               |                             |                     |   |                    |              |                 |            |              |          |
| Hajime TAKEUCHI  | 03/01/2012                                |               |                             |                     |   |                    |              |                 |            |              |          |
| RECEIVING PARTY DATA   |   |               |                             |                     |   |                    |              |                 |            |              |          |
| <table border="1"> <tr> <td>Name:</td> <td>KABUSHIKI KAISHA TOSHIBA</td> </tr> <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> </tr> </table>                    |   | Name:         | KABUSHIKI KAISHA TOSHIBA    | Street Address:     | 1-1, Shibaura 1-chome, Minato-Ku          | City:              | Tokyo        | State/Country:  | Japan      | Postal Code: | 105-8001 |
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| <table border="1"> <tr> <td>Name:</td> <td>TOSHIBA MATERIALS CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>8, Shinsugita-Cho, Isogo-Ku, Yokohama-Shi</td> </tr> <tr> <td>City:</td> <td>Kanagawa-Ken</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>235-0032</td> </tr> </table> |   | Name:         | TOSHIBA MATERIALS CO., LTD. | Street Address:     | 8, Shinsugita-Cho, Isogo-Ku, Yokohama-Shi | City:              | Kanagawa-Ken | State/Country:  | JAPAN      | Postal Code: | 235-0032 |
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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>13496662</td> </tr> </tbody> </table>  |   | Property Type | Number                      | Application Number: | 13496662                                  |                    |              |                 |            |              |          |
| Property Type  | Number                                    |               |                             |                     |   |                    |              |                 |            |              |          |
| Application Number:  | 13496662                                  |               |                             |                     |   |                    |              |                 |            |              |          |
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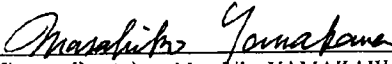

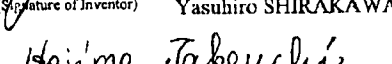
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The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, L.L.P. of 1940 Duke Street, Alexandria, Virginia 22314 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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| Date: <u>March 1, 2012</u> | <u></u><br>(Signature of Inventor) Masahiko YAMAKAWA  |
| Date: <u>March 1, 2012</u> | <u></u><br>(Signature of Inventor) Yasuhiro SHIRAKAWA |
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