

PATENT ASSIGNMENT

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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>Akiyuki MURAYAMA</td> <td>04/15/2013</td> </tr> <tr> <td>Masahiko NAKAYAMA</td> <td>04/10/2013</td> </tr> <tr> <td>Satoshi SETO</td> <td>04/10/2013</td> </tr> <tr> <td>Tatsuya KISHI</td> <td>04/18/2013</td> </tr> <tr> <td>Masaru TOKO</td> <td>04/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Akiyuki MURAYAMA	04/15/2013	Masahiko NAKAYAMA	04/10/2013	Satoshi SETO	04/10/2013	Tatsuya KISHI	04/18/2013	Masaru TOKO	04/10/2013
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<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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CORRESPONDENCE DATA													
Fax Number:	7136234846												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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NAME OF SUBMITTER:	Frederick D. Kim												

OP \$40.00 13777835

Signature:	/Frederick D. Kim/
Date:	06/03/2013
Total Attachments: 2 source=TAI_0149US_EASGN#page1.tif source=TAI_0149US_EASGN#page2.tif	

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

1)	Akiyuki MURAYAMA Fukuoka-ken, Japan	2)	Masahiko NAKAYAMA Yamaguchi-ken, Japan
3)	Satoshi SETO Kanagawa-ken, Japan	4)	Tatsuya KISHI Kanagawa-ken, Japan
5)	Masaru TOKO Kanagawa-ken, Japan		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

MAGNETORESISTIVE ELEMENT AND MANUFACTURING METHOD OF THE SAME

for which an application for Letters Patent in the United States:

- is executed concurrently herewith.
 was executed on _____
 was filed on **February 26, 2013** under Serial No **13/777,835**.

WHEREAS, **Kabushiki Kaisha Toshiba**, a **Japanese** corporation, having a business address at **1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan** (hereinafter collectively referred to as Assignee), are desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, continuation or continuation-in-part of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing, continuation-in-part or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use

proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

- 1) April 15, 2013 (DATE) *Akiyuki Murayama*
Akiyuki MURAYAMA
- 2) April 10, 2013 (DATE) *Masahiko Nakayama*
Masahiko NAKAYAMA
- 3) April 10, 2013 (DATE) *Satoshi Seto*
Satoshi SETO
- 4) April 18, 2013 (DATE) *Tatsuya Kishi*
Tatsuya KISHI
- 5) April 10, 2013 (DATE) *Masaru TOKO*
Masaru TOKO