

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

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>Takayuki TSUKAMOTO</td><td>09/24/2010</td></tr><tr><td>Takeshi YAMAGUCHI</td><td>09/24/2010</td></tr><tr><td>Chikayoshi KAMATA</td><td>09/24/2010</td></tr><tr><td>Tsukasa NAKAI</td><td>09/27/2010</td></tr><tr><td>Takahiro HIRAI</td><td>09/27/2010</td></tr><tr><td>Shinya AOKI</td><td>09/27/2010</td></tr><tr><td>Kohichi KUBO</td><td>09/27/2010</td></tr></tbody></table>		Name	Execution Date	Takayuki TSUKAMOTO	09/24/2010	Takeshi YAMAGUCHI	09/24/2010	Chikayoshi KAMATA	09/24/2010	Tsukasa NAKAI	09/27/2010	Takahiro HIRAI	09/27/2010	Shinya AOKI	09/27/2010	Kohichi KUBO	09/27/2010
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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></table>		Name:	Kabushiki Kaisha Toshiba	Street Address:	1-1, Shibaura 1-chome, Minato-ku	City:	Tokyo	State/Country:	JAPAN								
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CORRESPONDENCE DATA																	
Fax Number: (703)413-2220 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
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Address Line 4: Alexandria, VIRGINIA 22314																	
ATTORNEY DOCKET NUMBER:	367543US																
NAME OF SUBMITTER:	Mesfin Kassaye																

OP \$40.00 12886040

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PATENT
REEL: 025172 FRAME: 0450

Total Attachments: 6

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13G046368-USA-A

Assignment of Application

DESIGN NAME
AND RESIDENCE
ADDRESS OF
THE INVENTORS

WHEREAS, I (WE) 1) Takayuki TSUKAMOTO

2) Takeshi YAMAGUCHI

3) Chikayoshi KAMATA

4) Tsukasa NAKAI

5) Takahiro HIRAI

6) Shinya AOKI

7) Kohichi KUBO

of:

1) Kanagawa-ken, Japan

2) Kanagawa-ken, Japan

3) Kanagawa-ken, Japan

4) Tokyo, Japan

5) Kanagawa-ken, Japan

6) Kanagawa-ken, Japan

7) Kanagawa-ken, Japan

, respectively,

INSERT TITLE OF
INVENTIONhave invented certain new and useful improvements in: "INFORMATION RECORDING AND REPRODUCING
DEVICE"

(Application No. 12/886,040, filed September 20, 2010), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE

WHEREAS, Kabushiki Kaisha Toshiba

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

12/04

Page 2 of 2

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. 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.

Date: Sept 24, 2010

Takayuki TSUKAMOTO
(Signature of Inventor) Takayuki TSUKAMOTO

Date: Sept 24, 2010

Takeshi YAMAGUCHI
(Signature of Inventor) Takeshi YAMAGUCHI

Date: _____

(Signature of Inventor) Chikayoshi KAMATA

Date: Sep. 27, 2010

Tsukasa NAKAI
(Signature of Inventor) Tsukasa NAKAI

Date: Sep. 27, 2010

Takahiro HIRAI
(Signature of Inventor) Takahiro HIRAI

Date: Sep. 27, 2010

Shinya AOKI
(Signature of Inventor) Shinya AOKI

Date: _____

(Signature of Inventor) Kohichi KUBO

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
1940 DUKE STREET
ALEXANDRIA, VIRGINIA 22314

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PATENT
REEL: 025172 FRAME: 0453

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(Signature of Inventor) Shinya AOKI

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(Signature of Inventor) Koji'chi Kuba
(Signature of Inventor) Kohichi KUBO

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
ATTORNEYS AT LAW
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ALEXANDRIA, VIRGINIA 22314

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PATENT

RECORDED: 10/21/2010

REEL: 025172 FRAME: 0457