

## 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>Toshikatsu HIDA</td> <td>12/15/2011</td> </tr> <tr> <td>Hiroshi YAO</td> <td>12/15/2011</td> </tr> <tr> <td>Norikazu YOSHIDA</td> <td>12/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Toshikatsu HIDA	12/15/2011	Hiroshi YAO	12/15/2011	Norikazu YOSHIDA	12/15/2011
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Toshikatsu HIDA	12/15/2011								
Hiroshi YAO	12/15/2011								
Norikazu YOSHIDA	12/15/2011								
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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>13328496</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13328496				
Property Type	Number								
Application Number:	13328496								
CORRESPONDENCE DATA									
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NAME OF SUBMITTER:	Mesfin Kassaye								
Total Attachments: 1 source=391252US2ASSIGNMENT#page1.tif									

OP \$40.00 13328496

PATENT

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by  
(Insert Name(s) & Address(es) of ASSIGNEE(S))

Kabushiki Kaisha Toshiba

1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan

(hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled  
(Title of Invention)

MEMORY SYSTEM

relating to International Patent Application PCT/JP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

(a) executed on \_\_\_\_\_; (Insert date of execution of application, if not concurrent)

(b) filed on December 16, 2011

Serial No. 13/328,496

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known.

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

1)	<u>Toshikatsu Hida</u> (Signature)	<u>Toshikatsu HIDA</u> (Type Name)	<u>Dec 15, 2011</u> (Date)
2)	<u>Hiroshi Yao</u> (Signature)	<u>Hiroshi YAO</u> (Type Name)	<u>Dec 15, 2011</u> (Date)
3)	<u>Norikazu Yoshida</u> (Signature)	<u>Norikazu YOSHIDA</u> (Type Name)	<u>Dec 15, 2011</u> (Date)
4)	_____ (Signature)	_____ (Type Name)	_____ (Date)
5)	_____ (Signature)	_____ (Type Name)	_____ (Date)