

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>Mikio Hashimoto</td> <td>08/25/2011</td> </tr> <tr> <td>Hiroyoshi Haruki</td> <td>08/25/2011</td> </tr> <tr> <td>Takeshi Kawabata</td> <td>08/25/2011</td> </tr> <tr> <td>Tomohide Jokan</td> <td>08/25/2011</td> </tr> <tr> <td>Yurie Fujimatsu</td> <td>08/25/2011</td> </tr> <tr> <td>Ryotaro Hayashi</td> <td>08/25/2011</td> </tr> <tr> <td>Fukutomo Nakanishi</td> <td>08/25/2011</td> </tr> </tbody> </table>		Name	Execution Date	Mikio Hashimoto	08/25/2011	Hiroyoshi Haruki	08/25/2011	Takeshi Kawabata	08/25/2011	Tomohide Jokan	08/25/2011	Yurie Fujimatsu	08/25/2011	Ryotaro Hayashi	08/25/2011	Fukutomo Nakanishi	08/25/2011
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RECEIVING PARTY DATA																	
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State/Country:	JAPAN																
Postal Code:	105-8001																
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>13223753</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13223753												
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CORRESPONDENCE DATA																	
Fax Number:	(216)696-8731																
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PATENT
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NAME OF SUBMITTER:

Gregory Turocy

Total Attachments: 2

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13G054855-USA-A
(PTBA-10420-US)

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 MANAGEMENT DEVICE AND MEMORY MANAGEMENT METHOD

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 September 1, 2011;

Serial No. 13/223,753;

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>Mikio Hashimoto</u> (Signature)	Mikio HASHIMOTO (Type Name)	<u>Aug. 25, 2011</u> (Date)
2) <u>Hiroyoshi Haruki</u> (Signature)	Hiroyoshi HARUKI (Type Name)	<u>Aug. 25, 2011</u> (Date)
3) <u>Takeshi Kawabata</u> (Signature)	Takeshi KAWABATA (Type Name)	<u>Aug. 25, 2011</u> (Date)
4) <u>Tomohide Jokan</u> (Signature)	Tomohide JOKAN (Type Name)	<u>Aug. 25, 2011</u> (Date)

5) <u>Yurie Fujimatsu</u> (Signature)	<u>Yurie FUJIMATSU</u> (Type Name)	<u>Aug. 25, 2011</u> (Date)
6) <u>Ryotaro Hayashi</u> (Signature)	<u>Ryotaro HAYASHI</u> (Type Name)	<u>Aug. 25, 2011</u> (Date)
7) <u>Fukutomo Nakanishi</u> (Signature)	<u>Fukutomo NAKANISHI</u> (Type Name)	<u>Aug. 25, 2011</u> (Date)