

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>Kazuhiro Ohba</td> <td>01/19/2011</td> </tr> <tr> <td>Shuichiro Yasuda</td> <td>01/25/2011</td> </tr> <tr> <td>Tetsuya Mizuguchi</td> <td>01/25/2011</td> </tr> <tr> <td>Katsuhisa Aratani</td> <td>01/25/2011</td> </tr> <tr> <td>Masayuki Shimuta</td> <td>01/25/2011</td> </tr> <tr> <td>Akira Kouchiyama</td> <td>01/25/2011</td> </tr> <tr> <td>Mayumi Ogasawara</td> <td>01/20/2011</td> </tr> </tbody> </table>		Name	Execution Date	Kazuhiro Ohba	01/19/2011	Shuichiro Yasuda	01/25/2011	Tetsuya Mizuguchi	01/25/2011	Katsuhisa Aratani	01/25/2011	Masayuki Shimuta	01/25/2011	Akira Kouchiyama	01/25/2011	Mayumi Ogasawara	01/20/2011
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RECEIVING PARTY DATA																	
Name:	Sony Corporation																
Street Address:	1-7-1 Konan, Minato-ku																
City:	Tokyo																
State/Country:	JAPAN																
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>13018744</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13018744												
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CORRESPONDENCE DATA																	
Fax Number:	(312)876-7934																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
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NAME OF SUBMITTER:	David R. Metzger																
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OP \$40.00 13018744

ASSIGNMENT

WHEREAS, I, as below named inventors, residing at the addresses stated next to our names, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in
MEMORY COMPONENT, MEMORY DEVICE, AND METHOD OF OPERATING MEMORY DEVICE

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, **SONY CORPORATION**, a Japanese corporation, with offices at **1-7-1 Konan, Minato-ku, Tokyo, Japan** (hereinafter referred to as ASSIGNEE) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEE, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEE or its designee, as ASSIGNEE or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow: Serial Number: _____ Filing Date: _____

This assignment executed on the dates indicated below.

KAZUHIRO OHBA

Name of first or sole inventor

MIYAGI JAPAN

Residence of first or sole inventor

Kazuhiro Ohba

Signature of first or sole inventor

Execution date of U.S. Patent Application

January 19, 2011

Date of this assignment

SHUICHIRO YASUDA

Name of second inventor

KANAGAWA JAPAN

Residence of second inventor

Shuichiro Yasuda

Signature of second inventor

Execution date of U.S. Patent Application

January 25, 2011

Date of this assignment

TETSUYA MIZUGUCHI

Name of third inventor

KANAGAWA JAPAN

Residence of third inventor

Tetsuya Mizuguchi

Signature of third inventor

Execution date of U.S. Patent Application

January 25, 2011

Date of this assignment

ADDITIONAL INVENTOR(S)

KATSUHISA ARATANI

Name of fourth inventor
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Residence of fourth inventor

Katsuhisa Aratani
Signature of fourth inventor

Execution date of U.S. Patent Application

Jan 25, 2011
Date of this assignment

MASAYUKI SHIMUTA

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Residence of fifth inventor

Masayuki Shimuta
Signature of fifth inventor

Execution date of U.S. Patent Application

January 25, 2011
Date of this assignment

AKIRA KOUCHIYAMA

Name of sixth inventor
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Residence of sixth inventor

Akira Kouchiyama
Signature of sixth inventor

Execution date of U.S. Patent Application

January 25, 2011
Date of this assignment

MAYUMI OGASAWARA

Name of seventh inventor
MIYAGI JAPAN

Residence of seventh inventor

Mayumi Ogasawara
Signature of seventh inventor

Execution date of U.S. Patent Application

January 20, 2011
Date of this assignment

Name of eighth inventor

Execution date of U.S. Patent Application

Residence of eighth inventor

Signature of eighth inventor

Date of this assignment

Name of ninth inventor

Execution date of U.S. Patent Application

Residence of ninth inventor

Signature of ninth inventor

Date of this assignment