

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>Hiroyuki MIZUNUMA</td> <td>03/06/2012</td> </tr> <tr> <td>Kazuyuki YAMAMOTO</td> <td>03/07/2012</td> </tr> <tr> <td>Ikuo YAMANO</td> <td>03/07/2012</td> </tr> <tr> <td>Kunihito SAWAI</td> <td>03/09/2012</td> </tr> <tr> <td>Osamu SHIGETA</td> <td>03/07/2012</td> </tr> <tr> <td>Akihiro KOMORI</td> <td>03/07/2012</td> </tr> <tr> <td>Nariaki SATO</td> <td>03/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hiroyuki MIZUNUMA	03/06/2012	Kazuyuki YAMAMOTO	03/07/2012	Ikuo YAMANO	03/07/2012	Kunihito SAWAI	03/09/2012	Osamu SHIGETA	03/07/2012	Akihiro KOMORI	03/07/2012	Nariaki SATO	03/09/2012
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<table border="1"> <tr> <td>Name:</td> <td>SONY CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-7-1 KONAN, MINATO-KU</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table>		Name:	SONY CORPORATION	Street Address:	1-7-1 KONAN, MINATO-KU	City:	Tokyo	State/Country:	JAPAN								
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CORRESPONDENCE DATA																	
Fax Number:	(202)408-4400																
Phone:	2024084440																
Email:	alicia.peltier@finnegan.com																
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																	
Correspondent Name:	ERNEST F. CHAPMAN																
Address Line 1:	901 New York Avenue, NW																
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20001-4413																
ATTORNEY DOCKET NUMBER:	09812.2575																

CH \$40.00 13424090

NAME OF SUBMITTER:

David W. Hill

Total Attachments: 4

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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
INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND PROGRAM

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.

HIROYUKI MIZUNUMA

Name of first or sole inventor
TOKYO, JAPAN

Residence of First or sole inventor

Hiroyuki Mizunuma
Signature of first or sole inventor

Execution date of U.S. Patent Application

March, 6, 2012
Date of this assignment

KAZUYUKI YAMAMOTO

Name of second inventor
KANAGAWA, JAPAN

Residence of second inventor

Kazuyuki Yamamoto
Signature of second inventor

Execution date of U.S. Patent Application

March 7, 2012
Date of this assignment

IKUO YAMANO

Name of third inventor
TOKYO, JAPAN

Residence of third inventor

Ikuo Yamano
Signature of third inventor

Execution date of U.S. Patent Application

March, 7, 2012
Date of this assignment

ADDITIONAL INVENTOR(S)

KUNIHITO SAWAI
Name of fourth inventor
KANAGAWA, JAPAN
Residence of fourth inventor
Kunihito Sawai
Signature of fourth inventor

Execution date of U.S. Patent Application

March 9, 2012
Date of this assignment

OSAMU SHIGETA
Name of fifth inventor
TOKYO, JAPAN
Residence of fifth inventor
Osamu Shigeta
Signature of fifth inventor

Execution date of U.S. Patent Application

March 7, 2012
Date of this assignment

AKIHIRO KOMORI
Name of sixth inventor
TOKYO, JAPAN
Residence of sixth inventor
Akihiro Komori
Signature of sixth inventor

Execution date of U.S. Patent Application

March 7, 2012
Date of this assignment

NARIAKI SATO
Name of seventh inventor
KANAGAWA, JAPAN
Residence of seventh inventor

Signature of seventh inventor

Execution date of U.S. Patent Application

Date of this assignment

Name of eighth inventor
Residence of eighth inventor
Signature of eighth inventor

Execution date of U.S. Patent Application

Date of this assignment

Name of ninth inventor
Residence of ninth inventor
Signature of ninth inventor

Execution date of U.S. Patent Application

Date of this assignment

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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;

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Name of second inventor
KANAGAWA, JAPAN

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Name of third inventor
TOKYO, JAPAN

Residence of third inventor

Signature of third inventor

Execution date of U.S. Patent Application

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KUNIHITO SAWAI

Name of fourth inventor

KANAGAWA, JAPAN

Residence of fourth inventor

Execution date of U.S. Patent Application

Signature of fourth inventor

Date of this assignment

OSAMU SHIGETA

Name of fifth inventor

TOKYO, JAPAN

Residence of fifth inventor

Execution date of U.S. Patent Application

Signature of fifth inventor

Date of this assignment

AKIHIRO KOMORI

Name of sixth inventor

TOKYO, JAPAN

Residence of sixth inventor

Execution date of U.S. Patent Application

Signature of sixth inventor

Date of this assignment

NARIAKI SATO

Name of seventh inventor

KANAGAWA, JAPAN

Residence of seventh inventor

Nariaki Sato
Signature of seventh inventor

Execution date of U.S. Patent Application

March 9, 2012
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