| RECORDATION FO | RM COVER SHEET |
|---|--|
| PATENT | S ONLY |
| | e record the attached documents or the new address(es) below. |
| Name of conveying party(ies)/Execution Date(s): | 2. Name and address (es) below. |
| TSUNAYUKI OHWA (11/25/2008) AND SATOSHI AKAGAWA (04/28/2009) | 2. Name and address of receiving party(ies) |
| Execution Date(s): in parentheses after inventor name | Name: SONY CORPORATION Internal Address: |
| Additional name(s) of conveying party(les) attached? Yes X No | Street Address: 1-7-1 Konan, Minato-ku |
| 3. Nature of Conveyance: | Tokyo |
| X Assignment Merger | 108-0075 |
| | JAPAN |
| | City: |
| Government Interest Assignment | State: |
| Executive Order 9424, Confirmatory License | Country |
| Other | Additional name(s) & address(es) |
| 4. Application or patent number(s): | attached: Yes X No |
| 12/316,126 Additional numbers attached? | Yes X No |
| | 6. Total number of applications and patents involved: |
| Dennis M. Smid, Esq. LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP | 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 |
| ernal Address: Atty. Dkt.: | Authorized to be charged by credit card |
| eet Address: 600 South Avenue West | Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) |
| Westfield | Payment Information |
| S Zip:7090 | |
| ne Number: (908) 518-6374 | a. Credit Card Last 4 Numbers Expiration Date |
| | _ |
| Number: (908) 654-0415 | D. Deposit Account Number 12_1005 |
| il Address: dsmid@ldlkm.com | Deposit Account Number 12-1095 Authorized User Name Dennis M. Smid, Esq. |
| il Address: dsmid@ldlkm.com phature: | Authorized User Name Dennis M. Smid, Esq. |
| il Address: dsmid@ldlkm.com Inature: Signature | Authorized User Name Dennis M. Smid, Esq. May 27, 2009 |
| il Address: dsmid@ldlkm.com | Authorized User Name Dennis M. Smid, Esq. |

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PATENT REEL: 022753 FRAME: 0838

700409331

Docket No.: SONYJP 3.0-1789

Sony Ref. No.: S08P2109US00

ASSIGNMENT

LDLKM

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, 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 PROCRAM THEREFOR

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 referenced 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, my 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. 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 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 application number and filing date of this application in the spaces that follow: Application Number: 12/316,126 Filing Date: December 9, 2008

This assignment executed on the dates indicated below.

| Tsunayuki OHWA Name of First or Sole Inventor | Nov. 25, 2008 |
|---|---|
| Kanagawa, Japan | Execution Date of U.S. Patent Application |
| Residence of First or Sole Inventor | |
| Tsunayaki Ohna | Nov, 25, 2008 |
| Signature of First or Sole Inventor | Date of this Assignment |

921968 1 DOC

Satoshi AKACAWA
Name of Second Joint Inventor

Tokyo, Japan Residence of Second Joint Inventor

Signature of Second Joint Inventor

LDLKM

Docket No.: SONYJP 3.0-1789 Sony Ref. No.: S08P2109US00 Page 2

Execution Date of U.S. Patent Application

Date of this Assignment

921968 1.DOC

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Docket No.: SONYJP 3.0-1789 Sony Ref. No.: \$08P2109US00

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, 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 THEREFOR

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;

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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 ASSIGNUE, its successors, assigns, and legal representatives, my 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 assignce 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 application number and filing date of this application in the spaces that follow: Application Number: 12/316,126; Filing Date: December 9, 2008

This assignment executed on the dates indicated below.

| Tsunayuki OĤWA | |
|-------------------------------------|---|
| Name of First or Sole Inventor | Execution Date of U.S. Patent Application |
| Kanagawa, Japan | |
| Residence of First or Sole Inventor | |
| A | |
| Signature of First or Sole Inventor | Date of this Assignment |
| 727 700_2 DAGE. | |

Date of this Assignment

LDLKM

Docket No.: SONYJP 3.0-1789 Sony Ref. No.: S08P2109US00

| Satoshi AKAGAWA | |
|------------------------------------|---|
| Name of Second Joint Inventor | Execution Date of U.S. Patent Application |
| Tokyo, Japan | |
| Residence of Second Joint Inventor | |
| Signature of Second Joint Inventor | 04/28-109 |
| Signature of Second Joint Inventor | Date of this Assignment |