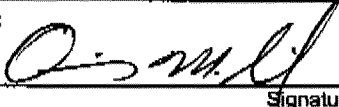


Form PTO-1595 (Rev. 09/04)
OMB No. 0661-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s): KAZUMOTO KONDO (09/21/2011), YASUHISA NAKAJIMA (09/26/2011), TAKASHI TSURUMOTO (09/26/2011), MASAHIRO NAKANO (09/26/2011), Execution Date(s): <u>in parentheses after inventor name</u> Additional name(s) of conveying party(ies) attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>SONY CORPORATION</u> Internal Address: _____ Street Address: _____ 1-7-1 Konan, Minato-ku Tokyo 108-0075 JAPAN City: _____ State: _____ Country: _____ Zip: _____ Additional name(s) & address(es) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	4. Application or patent number(s): <input type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) <u>13/273,462</u> B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Dennis M. Smid, Esq.</u> <u>LERNER, DAVID, LITTENBERG,</u> <u>KRUMHOLZ & MENTLIK, LLP</u> Internal Address: <u>Atty. Dkt.: SONYJP 3.0-2626</u> Street Address: <u>600 South Avenue West</u> City: <u>Westfield</u> State: <u>NJ</u> Zip: <u>07090</u> Phone Number: <u>(908) 518-6374</u> Fax Number: <u>(908) 654-7866</u> Email Address: <u>dsmid@ldlkm.com</u>	6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>12-1095</u> Authorized User Name <u>Dennis M. Smid, Esq.</u>	
9. Signature: <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">  _____ Signature </div> <div style="text-align: center;"> <u>October 14, 2011</u> _____ Date </div> </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> <u>Dennis M. Smid, Esq. - 34,930</u> _____ Name of Person Signing </div> <div style="text-align: right;"> Total number of pages including cover sheet, attachments, and documents: 6 </div> </div>	

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Form PTO-1595		RECORDATION FORM COVER SHEET (continued)	
Additional Conveying Party(ies)/Execution Date(s) (1. Continued): SHIRO OMORI (09/22/2011), AND TATSUSHI BANBA (09/22/2011)			
Additional Assignees (2. Continued):			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Assignee Name: _____			
Internal Address: _____			
Street Address: _____			
City: _____ State: _____ Country: _____ Zip: _____			
Additional Applications and/or Patents (4. Continued):			
Additional Patent Application Numbers 4A. Continued:		Additional Patent Numbers 4B. Continued:	
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Attorney Docket No. SONYJP 3.0-2626
SONY Ref. No.: S11P1900US00

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
OPERATIONAL TERMINAL DEVICE, DISPLAY CONTROL DEVICE, METHOD OF OPERATING TERMINAL DEVICE, METHOD OF OPERATING DISPLAY CONTROL DEVICE, AND SYSTEM
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: 13/273,462, Filing Date: October 14, 2011

This assignment executed on the dates indicated below.

KAZUMOTO KONDO

Name of first or sole inventor

KANAGAWA JAPAN

Residence of first or sole inventor

Kazumoto Kondo
Signature of first or sole inventor

Execution date of U.S. Patent Application

Sept. 24, 2011
Date of this assignment

YASUHISA NAKAJIMA

Name of second inventor

KANAGAWA JAPAN

Residence of second inventor

Signature of second inventor

Execution date of U.S. Patent Application

Date of this assignment

TAKASHI TSURUMOTO

Name of third inventor

SAITAMA JAPAN

Residence of third inventor

Signature of third inventor

Execution date of U.S. Patent Application

Date of this assignment

Attorney Docket No. SONYJP 3.0-2626
SONY Ref. No. S11P1900US00

ADDITIONAL INVENTOR(S)**MASAHIRO NAKANO**

Name of fourth inventor

TOKYO JAPAN

Residence of fourth inventor

Execution date of U.S. Patent Application

Signature of fourth inventor

Date of this assignment

SHIRO OMORI

Name of fifth inventor

KANAGAWA JAPAN

Residence of fifth inventor

Execution date of U.S. Patent Application

Signature of fifth inventor

Date of this assignment

TATSUSHI BANBA

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

Name of seventh inventor

Execution date of U.S. Patent Application

Residence of seventh inventor

Signature of seventh inventor

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

Attorney Docket No. SONYJP 3.0-2626
SONY Ref. No.: S1IP1900US00

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
OPERATIONAL TERMINAL DEVICE, DISPLAY CONTROL DEVICE, METHOD OF OPERATING TERMINAL DEVICE, METHOD OF OPERATING DISPLAY CONTROL DEVICE, AND SYSTEM
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: 13/273,462, Filing Date: October 14, 2011

This assignment executed on the dates indicated below.

KAZUMOTO KONDO

Name of first or sole inventor

KANAGAWA JAPAN

Residence of first or sole inventor

Signature of first or sole inventor

Execution date of U.S. Patent Application

Date of this assignment

YASUHISA NAKAJIMA

Name of second inventor

KANAGAWA JAPAN

Residence of second inventor

Yasuhisa Nakajima
Signature of second inventor

Execution date of U.S. Patent Application

26 September, 2011
Date of this assignment

TAKASHI TSURUMOTO

Name of third inventor

SAITAMA JAPAN

Residence of third inventor

Takashi Tsurumoto
Signature of third inventor

Execution date of U.S. Patent Application

1x Sep. 26, 2011
Date of this assignment

Attorney Docket No. SONYJP 3.0-2626
SONY Ref. No. I511P1900US00

ADDITIONAL INVENTOR(S)

MASAHIRO NAKANO

Name of fourth inventor
TOKYO JAPAN

Residence of fourth inventor

Signature of fourth inventor

Execution date of U.S. Patent Application

Date of this assignment September 26, 2011

SHIRO OMORI

Name of fifth inventor
KANAGAWA JAPAN

Residence of fifth inventor

Signature of fifth inventor

Execution date of U.S. Patent Application

Date of this assignment Sep. 22, 2011

TATSUSHI BANBA

Name of sixth inventor
TOKYO JAPAN

Residence of sixth inventor

Signature of sixth inventor

Execution date of U.S. Patent Application

Date of this assignment Sep. 22, 2011

Name of seventh inventor

Execution date of U.S. Patent Application

Residence of seventh inventor

Signature of seventh inventor

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