City:	Form PTO-1595 (Rev. 03-11) OMB No. 0651-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
To the Director of the U.S. Patent and Trademark Office: Please rebord the attached documents of the new address(es) below. 1. Name of conveying party(les): Takeo Inagaki (08/21/2009), Yoshihiro Nakanishi (08/21/2009), and Tsukasa Yoshimura (08/21/2009), and Tsukasa Yoshimura (08/23/2009) Additional nameto) of conveying partyles) attached?	RECORDATION FOR	M COVER SHEET
1. Name of conveying party(les): Takeo Inagaki (08/21/2009), yoshihiro Nakanishi (08/21/2009), and Tsukasa Yoshimura (08/21/2009) Additional name(s) of conveyance/Execution Date(s): Execution Date(s): in parentheses after inventor name Security Agreement	PATENTS ONLY	
Takeo Inagaki (08/21/2009), Yoshihiro Nakanishi (08/21/2009), and Tsukasa Yoshimura' (08/23/2009) Additional name(s) of conveying party(tes) attached?	To the Director of the U.S. Patent and Trademark Office: Please	record the attached documents or the new address(es) below.
(08/23/2009), and Tsukasa Yoshimura (08/23/2009) (08/23/2009) 3. Nature of conveying penylei) attached?	1. Name of conveying party(les):	2. Name and address of receiving party(ies)
Additional name(s) of conveying party(ies) attached? Yes X No 3. Nature of conveyance/Execution Date(s): Execution Date(s): In parentheses after inventor name	(08/21/2009), and Tsukasa Yoshimura	
Execution Date(s): in parentheses after inventor name X Assignment	l '	
Execution Date(s): In parentheses after inventor name X Assignment Merger Change of Name Security Agreement Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Country:	3. Nature of conveyance/Execution Date(s):	
Security Agreement Joint Research Agreement Gity: State: Country: Additional name(e) & address(es) Yes X No attached? Additional name(e) & address(es) Yes X No attached? Additional name(e) & address(es) Yes X No attached? Yes X No attached? Yes X No attached? Yes X No attached? Yes X No No.(e) S. Name and address to whom correspondence concerning document should be malied: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Aty, Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West X Authorized to be charged to deposit account Enclosed None required (government interest not affecting title State: NJ Zip: 07090 Phone Number: 908-654-5000 Pax Number: 908-654-7866 Email Address: ataylor@ldikm.com Signature June 3, 2013 Date Davy E. Zoneraich Davy E. Zoneraich	Execution Date(s): in parentheses after inventor name	
Government Interest Assignment Executive Order 9424. Confirmatory License Other Additional name(s) & address(es) Yes X No 4. Application or patant number(s): A. Patent Application No.(s) 13/908, 197 Additional numbers attached? This document is being filed together with a new application. B. Patent No.(s) 13/908, 197 Additional numbers attached? Yes X No 5. Name and address to whom correspondence concerning document should be mailed: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Any, Dixt: SONYJP 3.0-2004 CON Street Address: G00 South Avenue West City: Westfield City: Westfield City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: ataylor@ldikm.com Signature June 3, 2013 Date	X Assignment Merger Change of Name	JAPAN
Executive Order 9424, Confirmatory License	Security Agreement Joint Research Agreement	City:
Additional name(s) & address(es) Yes X No 4. Application or patent number(s): A. Patent Application No.(s) 13/908,197 Additional numbers attached? B. Patent No.(s) 5. Name and address to whom correspondence concerning document should be malied: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-7866 Email Address: Authorized to be charged to deposit account Enclosed None required (government interest not affecting little state) B. Payment Information Deposit Account Number 12-1095 Davy E. Zoneraich June 3, 2013 Date Davy E. Zoneraich Date	Government Interest Assignment	State:
Additional name(s) & address(es) Yes X No 4. Application or patent number(s): A. Patent Application No.(s) 13/908,197 Additional numbers attached? B. Patent No.(s) 5. Name and address to whom correspondence concerning document should be maited: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: Authorized to be charged to deposit account Enclosed None required (government Interest not affecting title 8. Payment Information Deposit Account Number 12-1095 Davy E. Zoneraich June 3, 2013 Date Davy E. Zoneraich June 3, 2013 Date	Executive Order 9424, Confirmatory License	Country: Zlp:
A. Patent Application No.(s) 13/908,197 Additional numbers attached? Additional numbers attached? Additional numbers attached? S. Name and address to whom correspondence concerning document should be malied: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty, Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: ataylor@idlkm.com Signature B. Patent No.(s) 6. Total number of applications and 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Enclosed None required (government interest not affecting title) B. Payment Information Separation Deposit Account Number 12-1095 Authorized User Name Davy E. Zoneraich Date Date	Other	
5. Name and address to whom correspondence concerning document should be mailed: Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West City: Westfield Stata: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: attylor@idlikm.com Signature Signature Signature Davy E. Zoneraich 1 6. Total number of applications and patents involved: 1 Address: 1 Address: 1 Deposit Account Number 12-1095 Authorized User Name Davy E. Zoneraich Davy E. Zoneraich Date Date Date Date	13/908,197	
Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkt.: SONYJP 3.0-2004 CON Street Address: 600 South Avenue West City: Westfield State: NJ Zip: 07090 Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: ataylor@idlkm.com Signature PRIVE Taparaich 27.267	5. Name and address to whom correspondence	6. Total number of applications and
State: NJ Zip: 07090	Name: Davy E. Zoneraich LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP Internal Address: Atty. Dkt.: SONYJP 3.0-2004 CON	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
State: NJ Zip: 07090	NA/anticolet	
Phone Number: 908-654-5000 Fax Number: 908-654-7866 Email Address: ataylor@ldlkm.com Signature: Deposit Account Number 12-1095 Davy E. Zoneraich June 3, 2013 Date Davy E. Zoneraich		e. Payment information
Fax Number: 908-654-7866 Deposit Account Number 12-1095 Email Address: ataylor@ldlkm.com Authorized User Name Davy E. Zoneraich 3, Signature: June 3, 2013 Signature Date		
9. Signature: June 3, 2013 Signature Davy E. Zoneraich June 3, 2013 Date		Deposit Account Number 12-1095
Signature Date Date Date Date		
I Davy □, Zoneraich - 37,267 lotal number of pages including cover I - I	Signature	Date
Name of Person Signing sheet, attachments, and documents:		

PATENT REEL: 030591 FRAME: 0957

Attorney Docket No. SONYJP 3.0-2004 SONY Ref. No.: SO9P1551US00

ASSIGNMENT

WHEREAS, 1, 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

LDLKM

DISPLAY CONTROL DEVICE, DISPLAY CONTROL 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-I 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 filling 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 invantion, 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 is	a this application to insert the serial number and filing date of this application is
the spaces that follow: Serial Number:	, Filing Date:
This assignment executed on the dates indicated below.	
TAKEO INAGAKI	August 21, 2009 Execution date of U.S. Patent Application
	Execution date of U.S. Patent Application
Name of first or sole inventor	Executon date of O.S. I areas reprise dos
TOKYO JAPAN	
Residence of First or sole inventor	1 4
The the All	Date of this assignment
Signature of first or sole inventor	Date of this assignment
-	
GEN FUJIKI	
Name of second inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	
Residence of second inventor	,
Signature of second inventor	Date of this assignment
Pignature or second inventor	Manual and strain Dan. Lane.
YOSHIHIRO NAKANISHI	Aug. 21, 2009
Name of third inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	
Residence of third inventor	
Kesinghee of third inventor	Aug. 21, 2009
中面 吉洋	Date of this assignment
Signature of third inventor	TIME OLUMP SERIEMICH

1

PATENT REEL: 030591 FRAME: 0958

Attorney Docket No. SONYJP 3,0-2004 SONY Ref. No.: S09P1551US00

ADDITIONAL INVENTOR(S)

LDLKM

TSUKASA YOSHIMURA	Execution date of U.S. Patent Application
Name of fourth inventor	Execution date of U.S. Patent Application
TOKYO JAPAN	
TOKYO JAPAN Residence of fourth inventor 77 7 7	Aug. 23.2009
Signature of fourth inventor	Date of the assignment
Name of fifth inventor	Execution date of U.S. Patent Application
Residence of fifth inventor	
Signature of fifth inventor	Date of this assignment
Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
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