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
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):	2. Name and address of receiving party(les)
Yuji Nakahata (10/04/2012) and Tornoya Yano (09/28/2012)	Name: Sony Corporation
(08/20/20/2)	Internal Address:
Additional name(s) of conveying party(les) strached?	Street Address:
3, Nature of conveyance/Execution Data(s):	1-7-1 Konan, Minato-ku
Execution Date(s): In parentheses after inventor name	Tokyo 108-0075
X Assignment Merger Change of Name	JAPAN
Security Agreement Joint Research Agreement	City:
Government Interest Assignment	State:
Executive Order 9424, Confirmatory License	Country: Zlp:
Other	Additional name(s) & address(es) Yes X No attached?
A. Patent Application No.(s) 13/698,115 Additional numbers attached?	B. Patent No.(s)
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and 1
Name: Dennis M. Smid, Esq. LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLIK, LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Atty. Dkt.: SONYJP 3.3-2749	
Street Address: 600 South Avenue West	X Authorized to be charged to deposit account
	Enclosed
	None required (government Interest not affecting tille)
City: Westfield	8. Payment Information
State: NJ Zip:07090	
Phone Number: 908-654-5000	
Fax Number: 908-654-7866	Deposit Account Number 12-1095
Email Address: ataylor@ldlkm.com	Authorized User Name Bruno Polito
9. Signature:	November 15, 2012
Signature	Dale
Bruno Polito - 38,580 Name of Person Signing	Total number of pages including cover 2 sheet, attachments, and documents:

2958416

ASSIGNMENT

Aftorney Docket No. SONYJP 3,3-2749 SONY Ref. No.: SP318650US00

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 DISPLAY 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, soll 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 sald 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

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

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: International Application No.: PCT/JP2012/053683 International Filing Date: February 16, 2012

This assignment executed on the dates indicated below.

YUJI NAKAHATA

Name of first or sole inventor
KANAGAWA, JAPAN
Residence of First or sole inventor
hyp nakahata
Simo Schundland

Signature of first or sole inventor

TOMOYA YANO

Name of second inventor KANAGAWA, JAPAN Residence of second inventor omoja

Jano Signature of second Inventor

Execution date of U.S. Patent Application

October 4. 20/2

Execution date of U.S. Patent Application

September 28, 2012

Date of this assignment

Name of third inventor

Residence of third inventor

Signature of third inventor

Execution date of U.S. Patent Application

Date of this assignment

PATENT REEL: 029352 FRAME: 0228

RECORDED: 11/15/2012