Form PTO-1\$95 (Rev. 03-11) OMB No. 0651-0027 (exp. 03/31/2015)	U.S. DEPARTMENT OF COMMERCI United States Patent and Trademark Offic				
RECORDATION FOR	M COVER SHEET				
PATENTS	PATENTS ONLY				
To the Director of the U.S. Patent and Tradem: rk Office: Please	record the attached documents or the new address(es) below.				
Name of conveying party(les):	2. N ime and address of receiving party(les)				
Takayuki Taneda (01/15/2010), Tetsu o	Nam 8: Sony Corporation				
Yamamoto (01/26/2010), Katsuhide Uchlno (01/26/2010), and Yuki Seo (01/27/2010)					
Additional name(s) of conveying party(les) attached? Yes X No	Internal Address: Strelit Address:				
3. Nature of conveyance/Execution Date(s):	1-7-1 Konan, Minato-ku				
Execution Date(s): In parentheses after invenior name	Taityo				
x Assignment Merger Change of Name	10H-0075 JAPAN				
Security Agreement Joint Research / greement	City:				
Goverhment Interest Assignment	Stati :				
Execultive Order 9424, Confirmatory Licens :	Coul try:Zip:				
Other	Addi lonal name(s) & address(es) Yes X No attad ned?				
4. Application or patent number(s):	his do tument is being filed together with a new application.				
A. Patent Application No.(s)	B Patent No.(s)				
14/043,922					
Additional numbers attached?	Yes X No				
Name and address to whom correspondence concerning document should be mailed:	6. To al number of applications and palants involved:				
Name: Christian LaForgia					
LERNER, DAVID, LITTENBERG, KRUMHOLZ & MENTLI (, LLP	7. Tol at fee (37 CFR 1.21(h) & 3.41) \$ 40.00				
Internal Address: Atty. Dkt.: SONYJP 3.0-2169 CON	7. 10 strice (37 CFR 1.21(ii) & 5.41)				
Street Address: 600 South Avenue West	[[]				
	Authorized to be charged to deposit account				
	L_1 Enclosed				
	None required (government interest not affecting title)				
City: Westfield	8. Pa ment Information				
State: NJ Zip: 07090					
Phone Number: 908-654-5000					
Fax Number: 908-654-7866	Deg belt Account Number 12-1095				
Email Address: mcormier@ldlkm com	A uthorized User Name Christian LaForgia				
9. Signaturet					
- W	October 2, 2013				
Signatur s	Date				
Christian LaForgia - 71,227 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:				

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PATENT REEL: 031360 FRAME: 0019

Attorney Docket No. SONYJP3.0-2169 SONY Ref. No.: \$10P0313US00

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 UNIT

for which application for Letters Patent of the United States of America was execute I by me on the date indicated next to my name and address;

AND WHEREAS, SONY CORPORATION, a Japanese corporation, with officer at 1-7-1 Konan, Minato-ku, Tokyo, Japan (heremafter referred to as ASSIGNEE) is desirous of acquiring all intenst in, to and under said avention, 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 I ollar (\$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 repres matives, 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 Letter; Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any: ad all priority rights an for convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patent, Designs and Industrial Models, and any other international agreements to which the United States of America adheres and to any other benedits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the Un ted States and countries foreign thereto, and I hereby authorize and request the Commissioner of Parents to issue the said United States La ters Patent to said ASS GNEE, 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 n ay from time-to-time present to me and without further remuneration, in order to perfect title in said invention, mod fications, and improves tents 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 remun ration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of sa d application for patent and or, for obtaining any reissue or reissues of any Letters patent which may be granted for my aforesald invention, as he ASSIGNEE thereof hall 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 leg I 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 the spaces that follow: Serial Number:	this application to assert the serial number and filing date of this application in, Filing Date:
This assignment executed on the dates indicated below.	
TAKAYUKI TANEDA Name of first or sole inventor AICHI JAPAN	Exec tion date of U.S. Patent Application
Residence of First or sole inventor Ankayukii Jameda. Signature of first or sole inventor	Date of this assignment
TETSURO YAMAMOTO Name of second inventor KANAGAWA JAPAN	Exec tion date of U.S. Patent Application
Residence of second inventor Jetuno Momentor Signature of second inventor	Date of this assignment
Name of third inventor KANAGAWA JAPAN Residence of third inventor	Execution date of U.S. Patent Application
Signature of third inventor	Date of this assignment PATENT

REEL: 031360 FRAME: 0020

Atterney Docket No. SONYJP3,0-2169 SONY Ref. No.:S10P0313US00

ADDITIONAL INVENTOR(S)

YUKI SEO	_	Executi in date of U.S. Patent Application	
Name of fourth inventor		Execution date of O.S. Patent Approximat	,
KANAGAWA JAPAN			
Residence of fourth inventor		Tan 27 . 2010	
Yunki seo			
Signature of fourth inventor	••••	Date of this assignment	
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Name of eighth inventor		Execution date of U.S. Patent Application	
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The state inventor			
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Signature of ninth inventor		Date of this assignment	. ,
Signature of milita investor	٠.		

PATENT REEL: 031360 FRAME: 0021

RECORDED: 10/02/2013