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To the Directo	PAIENIS or of the U.S. Patent and Trademark Office: Plea		10364	49941
	nveying party(ies):		~	
	09/04/2012) and Daisuke Takama	Name and address of receiving party(ies) Name:		
,	·	Internal Address:		
Additional name(s) o	f conveying party(ies) attached? Yes X No	Street Address:		
Execution Date(s X Assignment Security Agre Government Executive Or Other 4. Application of A. Patent Applic	Interest Assignment rder 9424, Confirmatory License or patent number(s): This doc	Chita-gun, Aichi- 470-2102 JAPAN City:	Zi & address(es) Y eath/Declaration (37 CF	p: res X No
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5. Name and addr concerning doc Name: RA Internal Address: Street Address: City: Phone Number: Fax Number:	ress to whom correspondence cument should be mailed: Christopher M. Tobin DER, FISHMAN & GRAUER PLLC Atty. Dkt.: SON-5208 1233 20th Street, N.W. Suite 501 Washington DC. zip: 20036 (202) 955-3750 (202) 955-3751	6. Total number of a patents involved: 7. Total fee (37 CFR X Authorized to Enclosed None require 8. Payment Informat Deposit Account Number Authorized Use	applications and 1.21(h) & 3.41) \$ to be charged to depose red (government interest tion umber User Name Christop 18/01/2012 AMULLINS	40.00 sit account st not affecting title) 18-0013 oher M. Tobin

RECORDATION FORM COVER SHE

PATENT REEL: 029093 FRAME: 0148

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 DISPLAY APPARATUS AND ELECTRONIC 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, Japan Display West Inc., a Japanese corporation, with offices at 50 Aza Kamifunaki, O-Aza Ogawa, Higashiura-cho, Chita-gun, Alchi-ken, 470-2102 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 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: 13/604,165 Filing Date: September 5, This assignment executed on the dates indicated below. TAKEO KOITO Name of first or sole inventor Execution date of U.S. Patent Application KANAGAWA, JAPAN Residence of First or sole inventor Signature of first or sole inventor DAISUKE TAKAMA Name of second inventor Execution date of U.S. Patent Application KANAGAWA, JAPAN Residence of second inventor Signature of second inventor Date of this assignment Name of third inventor Execution date of U.S. Patent Application Residence of third inventor Signature of third inventor Date of this assignment

1

Attorney Docket No. 80001-5208 SONY Ref. No.: SP327900US00

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 DISPLAY APPARATUS AND ELECTRONIC 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, Japan Display West Inc., a Japanese corporation, with offices at 50 Aza Kamifunaki, O-Aza Ogawa, Higashiura-cho, Chita-gun, Aichi-ken, 470-2102 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 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 spaces that follow: Serial Number: $13/604$, 165	d in this application to insert the serial number and filing date of this application in the serial number of the serial number of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of this application in the serial number and filing date of the serial number and filing date of this application is serial number and filing date of the serial		
This assignment executed on the dates indicated below.			
TAKEO KOITO	·		
Name of first or sole inventor	Execution date of U.S. Patent Application		
KANAGAWA, JAPAN			
Residence of First or sole inventor			
Signature of first or sole inventor	Date of this assignment		
DAISUKE TAKAMA			
Name of second inventor	Execution date of U.S. Patent Application		
KANAGAWA, JAPAN			
Residence of second inventor	A +1 >12		
Laisuhe Pakama	August 26, 2012		
Signature of second inventor	Date of this assignment		
	Possetter John of H.C. Debout Application		
Name of third inventor	Execution date of U.S. Patent Application		
Residence of third inventor	,		
Signature of third inventor	Date of this assignment		

DA:

PATENT REEL: 029093 FRAME: 0150