To the Director of the US Patent and Trademark Office Please record the atta 103622510 1. Name of conveying party(ies): Tetsuro Yamamoto (03/25/2011) and Katsuhide 2. Name and address of receiving party(ies) Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveying party(ies) Street Address Street Address 3. Nature of conveying party(ies) attached? Yes No 3. Nature of conveying party(ies) attached? Yes No 3. Nature of conveying party(ies) attached? Yes No Street Address 1.7.1 Konan Minata-Ku, Tokyo 3. Assignment Joint Research Agreement Other State Government Interest Assignment State Country Zip Additional numbers attached? Yes Xio 4. Application or patent number(s): This document is being filed together with a new applicate A dditional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: No Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC Internal Address 123 20th Street, N W Suite 501 Siteet Address	PATENTS ONLY Imministrational analysis To the Director of the US Patent and Trademark Office Please record the atta 103622510 1. Name of conveying party(les): Iterature X anamoto (03/26/2011) and Katsuhide Detector of one-wing party(les): 2. Name and address of receiving party(les) Additional name(s) of conveying party(les) attached? Yes Additional name(s) of conveying party(les) attached? Additional name(s) of conveying party(les) Internal Address Security Agreement Joint Research Agreement Internal Address Government Interest Assignment State Cup Security Order 9424, Confirmatory License Country Zip Other Additional numbers attached? Yes No 4. Application or patent number(s): This document is being filed together with a new applicat B Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document ishould be mailed: Instens involved: 1 Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC Instens involved: 1 Internal Address 220 20036 None required (government interest not affect Numm	Form PTO-1595 (Rev 01-09) OMB No 0651-0027 (exp 02/28/2009)	04/14/2011
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Tetsuro Yamamoto (03/25/2011) and Katsuhide Uchino (03/29/2011) Name Sony Corporation Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveying party(ies) attached? Yes No Street Address 1-7.1 Konan Minato-Ku, Tokyo Minato-Ku, Tokyo JAPAN Security Agreement Joint Research Agreement City Government Interest Assignment State Country Zip Additional name(s) & address(es) Yes X A Application or patent number(s): This document is being filed together with a new applications and patents involved: B A Patent Application No (s) 13/064,341 B Patent No (s) 1 Mame Christopher M Tobin RADER, FISHMAN & GRAUER PLLC Fortal number of applications and patents involved: 1 Name Christopher M Tobin X Authonized to be charged to deposit account Inclosed 1 Name City Washington Site 1 20036 1 City Washington Site Site 1 20036 1 City Washington Site Si	Tetsuro Yamamoto (03/25/2011) and Katsuhide Uchino (03/29/2011) Name Sony Corporation Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveying party(ies) attached? Yes No Steed Address 1-7.1 Konan Minato-Ku, Tokyo Minato-Ku, Tokyo 108-0075 JAPAN Security Agreement Joint Research Agreement Chy State Government Interest Assignment State Country Zip Additional name(s) & address (se) Yes X Application or patent number(s): This document is being filed together with a new applicat A Patent Application No (s) 13/064,341 B Additional numbers attached? Yes No Street Address 12/04,341 Total number of applications and patents involved: 1 Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC Total fee (37 CFR 1 21(h) & 3 41) 40 0C Internal Address Atthorized to be charged to deposit account Enclosed None required (government interest not affect City Washington Sitale DC zip 20036 Phone Number	To the Director of the US Patent and Trademark Office Please	record the atta 103622510
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Security Agreement Joint Research Agreement City Government Interest Assignment State Executive Order 9424. Confirmatory License Country Zip Other Additional name(s) & address(es) Yes X 4. Application or patent number(s): This document is being filed together with a new applicat A Patent Application No (s) 13/064,341 B Patent No (s) 13/064,341 Governing document should be mailed: B Patent No (s) Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC 6. Total number of applications and patents involved: 1 Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC 7. Total fee (37 CFR 1 21(h) & 3 41) \$ 40 000 Internal Address Atty Dkt SON-4777 Street Address 1233 20th Street, N W Xuthorized to be charged to deposit account State DC Zip 20036 None required (government interest not affect) Phone Number (202) 955-3750 Enclosed Deposit Account Number 18-0013 Signature April 11, 2011 Signature April 11, 2011 Date	Security Agreement Joint Research Agreement Government Interest Assignment State Executive Order 9424. Confirmatory License Country Other Additional name(s) & address(es) Yes A Application or patent number(s): This document is being filed together with a new applications and patents involved: B A Patent Application No (s) 13/064,341 B Patent No (s) 13/064,341 Governing document should be mailed: B Patent No (s) Additional numbers attached? Yes X No S. Name and address to whom correspondence concerning document should be mailed: B Total number of applications and patents involved: 1 Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC 6. Total number of applications and patents involved: 1 Name Christopher M Tobin RADER, FISHMAN & GRAUER PLLC 7. Total fee (37 CFR 1 21(h) & 3 41) \$ 40 00 Internal Address Atty Dkt SON-4777 Street Address 1233 20th Street, N W Suite 501 X Authorized to be charged to deposit account Licensed City Washington 8. Payment Information 8. Payment Information State DC Zip 20036 Phone Number 18-0013		Minato-Ku, Tokyo 108-0075
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Email Address cmt@rarlerfishman.com Authorized User Name Christopher M Tobir D. Signature: April 11, 2011 Date	Email Address cmt@rarlerfishman.com Authorized User Name Christopher M Tobii D. Signature: April 11, 2011 Date		
9. Signature: April 11, 2011 Signature Pt (1,	9. Signature: April 11, 2011 Date		
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Ognature Date	Signature Date		April 11 2011
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			Date

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REEL: 026174 FRAME: 0773

Attorney Docket No. SON-4777 SONY Ref. No.: S11P1199US00

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 INVERTER CIRCUIT AND DISPLAY

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

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: 13/064, 341, Filing Date March 21, 2011This assignment executed on the data in the series in the series of the space of the series of the se

This assignment executed on the dates indicated below	
TETSURO YAMAMOTO	
Name of first or sole inventor KANAGAWA JAPAN	Execution date of U.S. Patent Application
Residence of First or sole inventor	
Jetsuro Yamamoto Signature of first or sole inventor	$\frac{M_{er} 25, 20/1}{\text{Date of this assignment}}$
KATSUHIDE UCHINO	
Name of second inventor KANAGAWA JAPAN	Execution date of U.S. Patent Application
Residence of second inventor	(May 20), 201'
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	
Signature of third inventor	Data of this sector is a sector is

RECORDED: 04/11/2011

Date of this assignment PATENT REEL: 026174 FRAME: 0774