## PATENT ASSIGNMENT

## Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY	DATA			
Name Execution Date				
Yoshihisa Kagawa			02/22/2012	
Naoki Komai			02/22/2012	
RECEIVING PARTY DATA				
Name: Sony Corporation				
Street Address:	1-7-1 Konan, Minato-ku			
City: Tokyo				
State/Country: JAPAN				
Postal Code: 108-0075				
PROPERTY NUMBER	S Total: 1			
Property Type		Number		12
Application Number: 13416		6412		 13416412
CORRESPONDENCE DATA				
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CORRESPONDENCE Fax Number: Phone:	(202)955-375 2029553750	1		\$40.00
Fax Number: Phone: Email:	(202)955-375 2029553750 kas@raderfisł	nman.com		:H \$40.00
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Fax Number: Phone: Email: <i>Correspondence will b</i> <i>via US Mail.</i> Correspondent Name: Address Line 1: Address Line 2:	(202)955-375 2029553750 kas@raderfish <i>be sent to the e-mail</i> Rader Fishma 1233 20th Stro Suite 501	nman.com <i>address first; if that is unsuccessful, it will be</i> n & Grauer, PLLC eet, N.W.	sent	
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Fax Number: Phone: Email: <i>Correspondence will b</i> <i>via US Mail.</i> Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	(202)955-375 2029553750 kas@raderfish <i>he sent to the e-mail</i> Rader Fishma 1233 20th Stra Suite 501 Washington, I NUMBER: R:	nman.com <i>address first; if that is unsuccessful, it will be</i> in & Grauer, PLLC eet, N.W. DISTRICT OF COLUMBIA 20036	sent	

## Attorney Docket No. 80001-5016 SONY Ref. No.: SP312540US00

## 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 SEMICONDUCTOR APPARATUS, ELECTRONIC DEVICE, AND METHOD OF MANUFACTURING SEMICONDUCTOR APPARATUS

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 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 commeration, 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 turther 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 1 further agree that ASSIGNEE will, upon its request, he provided promptly with all pertinent facts and documents relating to said upplication, 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 bereby authorize and request my attorney(s) of record in this application to insert the scrial number and filing date of this application in the spaces that follow: Scrial Number: 13/416, 412, Filing Date: March 9, 2012.

titls assignment executed on the dates indicated below.

YOSHIHISA KAGAWA Name of first or sole inventor

KANAGAWA, JAPAN Residence of First or sole inventor Yeshyitt Lagran Signature of first or sole inventor

NAORI KOMAI

Name of second inventor KANAGAWA, JAPAN Residence of second inventor

Signature of second inventor

Execution date of U.S. Patent Application

<u>February</u> 22.2012 Date of this assignment

Execution date of U.S. Patent Application

Execution date of U.S. Patent Application

 $\frac{Feb 22}{Date of this assignment}$ 

Mame of third inventor

Residence of third inventor

Signature of third inventor

Date of this assignment

PATENT REEL: 027878 FRAME: 0417

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**RECORDED: 03/16/2012**