

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4501485

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SONY CORPORATION	07/27/2016
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15311726
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DATE SIGNED:	07/13/2017
Total Attachments: 3	
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ASSIGNMENT

In consideration for value received, **Sony Corporation**, a corporation of Japan, having a place of business at 1-7-1 Konan, Minato-ku, Tokyo 108 0075, JAPAN, the owner of record as evidenced by assignments recorded in the U. S. Patent and Trademark Office hereby sells, assigns, transfers and conveys unto

Sony Semiconductor Solutions Corporation, a corporation of Japan, having a place of business at 4-14-1 Asahi-cho, Atsugi-shi, Kanagawa JAPAN

its successors, assigns and legal representatives (hereinafter called the "Assignee"), the entire right, title and interest, for all countries, in and to all inventions which are listed on the attached **Schedule A** and any and all improvements, divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted, thereon, and all reissues and extensions thereof, and all applications for Letters Patent or other grants of protection of proprietary rights including, but not limited to, inventor's certificate, utility model, utility certificate, patent of importation, registration of patent and industrial design registration which may be filed, and which may be granted; upon said inventions in any countries or regions foreign to the United States, and all reissues, renewals and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States, and all officials of countries or regions foreign to the United States having authority so to do, to issue all such Letters Patent or other grants of protection upon said inventions to the Assignee or to such nominees as it may designate.

AND authorizes and empowers the said Assignee or nominees to invoke and claim for any application for such Letters Patent or other grants of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by a convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

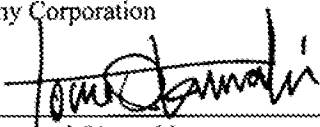
AND hereby covenants that it has the full right to convey the entire right, title and interest herein assigned and that it has not executed and will not execute any agreement in conflict herewith.

AND hereby covenants and agrees that it will communicate to said Assignee or nominees all facts known to us pertaining to said inventions, and testify in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominees in obtaining, maintaining and enforcing all lawful patent or other grants of protection of said inventions in any and all countries and regions.

DATED: July 12, 2017

Sony Corporation

By: _____


Tomonori Okuwaki
Senior General Manager
Intellectual Property Division
Sony Corporation

SCHEDULE A

Docket No.	Appl. No.	Filing Date	Title
SP358348US00	15/312092	5/29/2015	IMAGE CAPTURING APPARATUS AND IMAGE CAPTURING METHOD
SP358136US00	15/311726	5/27/2015	OPTICAL FILTER, SOLID STATE IMAGING DEVICE, AND ELECTRONIC APPARATUS
SP357782US00	15/320409	4/2/2015	IMAGE PROCESSING DEVICE, IMAGING DEVICE, INFORMATION PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM
SP357690US00	15/312756	5/20/2015	SIGNAL PROCESSING APPARATUS, CONTROL METHOD, IMAGE SENSOR, AND ELECTRONIC APPARATUS
SP357605US00	15/316725	6/11/2015	SOLID-STATE IMAGE CAPTURING ELEMENT, MANUFACTURING METHOD THEREOF, AND ELECTRONIC DEVICE
SP357511US00	15/128324	3/17/2015	SOLID STATE IMAGING DEVICE, DRIVE CONTROL METHOD THEREFOR, IMAGE PROCESSING METHOD, AND ELECTRONIC APPARATUS
SP357367US00	15/309305	4/30/2015	INFORMATION PROCESSING DEVICE, INFORMATION PROCESSING METHOD, AND ELECTRONIC APPARATUS
SP357345US00	15/310186	5/12/2015	SENSOR MODULE, METHOD OF CONTROLLING THE SAME, AND ELECTRONIC APPARATUS
SP357089US00	15/128277	3/2/2015	SEMICONDUCTOR UNIT, SEMICONDUCTOR DEVICE, LIGHT-EMITTING APPARATUS, DISPLAY APPARATUS, AND METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
SP357014US00	15/303751	4/8/2015	IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, ELECTRONIC APPARATUS, AND PROGRAM
SP356932US00	15/121221	2/24/2015	RECEIVING DEVICE AND RECEIVING METHOD
SP356883US00	15/119169	2/13/2015	RECEPTION DEVICE
SP356781US00	15/127055	2/10/2015	SEMICONDUCTOR DEVICE, DISPLAY PANEL, DISPLAY DEVICE, ELECTRONIC DEVICE, AND METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE
SP356621US00	15/127519	2/23/2015	DISPLAY APPARATUS, DISPLAY MODULE, AND DISPLAY MEMBER
SP354057US00	15/113861	2/5/2015	SOLID-STATE IMAGING DEVICE, METHOD OF MANUFACTURING THE SAME, AND ELECTRONIC APPARATUS
SP354054US00	15/112486	1/8/2015	SOLID-STATE IMAGING DEVICE, METHOD OF DRIVING SOLID-STATE IMAGING DEVICE, METHOD OF MANUFACTURING SOLID-STATE IMAGING DEVICE, AND ELECTRONIC APPARATUS
SP353970US00	15/310002	5/11/2015	SEMICONDUCTOR APPARATUS AND METHOD OF CONTROLLING MOS TRANSISTOR
SP353885US00	15/316918	6/16/2015	SOLID-STATE IMAGING ELEMENT, AND ELECTRONIC DEVICE
SP353302US00	15/105183	11/12/2014	LIGHT CONTROL DEVICE, IMAGING ELEMENT, AND IMAGING DEVICE
SP352764US01	15/426772	2/7/2017	SOLID-STATE IMAGING ELEMENT, METHOD OF MANUFACTURING THE SAME, AND IMAGING DEVICE
SP340411US01	15/249654	8/29/2016	IMAGING APPARATUS, AN ELECTRONIC DEVICE, AND

Docket No.	Appln. No.	Filing Date	Title
			IMAGING METHOD TO UNIFORMIZE DISTRIBUTION OF INCIDENT LIGHT, AND A PHOTOSTIMULATED LUMINESCENCE DETECTION SCANNER
SP339611US01	15/229511	8/5/2016	SOLID-STATE IMAGING DEVICE, DRIVING METHOD FOR SOLID-STATE IMAGING DEVICE, AND ELECTRONIC APPLIANCE
SP313170US03	15/231395	8/8/2016	SOLID-STATE IMAGING DEVICE
SP246876US01	15/162043	5/23/2016	IMAGE PICKUP APPARATUS, SOLID-STATE IMAGE PICKUP ELEMENT, AND IMAGE PICKUP METHOD