504781923 02/16/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YASUYUKI TERANISHI	12/22/2010
KOJI NOGUCHI	01/05/2011
KOJI ISHIZAKI	01/05/2011
TAKEYA TAKEUCHI	01/05/2011
TAKAYUKI NAKANISHI	01/05/2011

RECEIVING PARTY DATA

Name:	Sony Corporation	
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City:	Tokyo	
State/Country:	JAPAN	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15895756

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NAME OF SUBMITTER:	NOLAN R. HUBBARD	
SIGNATURE:	/Nolan R. Hubbard/	
DATE SIGNED:	02/16/2018	

Total Attachments: 2

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PATENT REEL: 044955 FRAME: 0098

504781923

Attorney Docket No. SONY Ref. No.:S10P0847US00

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 TOUCH SENSOR, DISPLAY 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, 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 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: International Application No.: PCT/JP2010/059294 , International Filing Date: May 26, 2010 This assignment executed on the dates indicated below. YASUYUKI TERANISHI Execution date of U.S. Patent Application Name of first or sole inventor AICHI JAPAN Residence of First or sole inventor Yasuyuki Faranıshi December 22. 20/0 Date of this assignment Signature of first or sole inventor KOJI NOGUCHI Execution date of U.S. Patent Application Name of second inventor KANAGAWA JAPAN Residence of second inventor

Koy Nagular

Signature of second inventor Date of this assignment KOJI ISHIZAKI Execution date of U.S. Patent Application Name of third inventor AICHI JAPAN Residence of third inventor January 5, 2011
Date of this assignment Signature of third inventor

> PATENT REEL: 044955 FRAME: 0099

ADDITIONAL INVENTOR(S)

TAKEYA TAKEUCHI	·
Name of fourth inventor AICHI JAPAN	Execution date of U.S. Patent Application
Residence of fourth inventor	
Jakeya TAKELCHI	change to Dall
Takeya TAFUCHI Signature of fourth inventor	Date of this assignment
TAKAYUKI NAKANISHI	•
Name of fifth inventor	Execution date of U.S. Patent Application
AICHI JAPAN	and of the figure of plant and the production
Residence of fifth inventor	
Tahopuhi nakarushi	January 5, 2011
Signature of fifth inventor	Date of this assignment
Name of sixth inventor	Execution date of U.S. Patent Application
Residence of sixth inventor	
Signature of sixth inventor	Date of this assignment
Name of seventh inventor	Execution date of U.S. Patent Application
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Signature of seventh inventor	Date of this assignment
Name of eighth inventor	Execution date of U.S. Patent Application
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Name of ninth inventor	Execution date of U.S. Patent Application
Residence of ninth inventor	
Signature of ninth inventor	Date of this assignment

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