PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KENJI WATANABE	01/23/2018
RYOSUKE OHMAE	01/27/2018
SHINJIROH KIHARA	02/07/2018
YOSHIMUNE YASHIRO	02/17/2018

RECEIVING PARTY DATA

Name:	SHARP KABUSHIKI KAISHA	
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State/Country:	JAPAN	
Postal Code:	590-8522	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15753225

CORRESPONDENCE DATA

Fax Number: (571)313-7421

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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NAME OF SUBMITTER:CHRISTY DALAKURASSIGNATURE:/PMM/cd/	
DATE SIGNED: 03/12/2018	
This document serves as an Oath/Declaration (37 CFR	1.63).

Total Attachments: 2

PATENT REEL: 045181 FRAME: 0698

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PATENT REEL: 045181 FRAME: 0699

COMBINED DECLARATION/ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION

Title DISPLAY DEVICE, TELEVISION RECEIVER, PROGRAM, AND RECORDING MEDIUM					
As a below named INVENTOR/ASSIGNOR, I hereby declare that:					
This declaration The attached application, or					
is directed to: United States application or PCT international application number PCT/JP2016/070736 filed on July 13, 2016					
The above-identified application was made or authorized to be made by me.					
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.					
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.					
I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56.					
WHEREAS, Sharp Kabushiki Kaisha (hereinafter referred to as "ASSIGNEE") having places of business at: 1. Takumi-cho. Sakai-ku, Sakai City. Osaka 590-8522. Japan, is desirous of acquiring the entire right, title, and interest in, to, and under said invention and any Letters Patent that may be granted therefore in the United States and in any and all foreign countries;					
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns, and transfers to ASSIGNEE the full and exclusive right, title, and interest to the said invention and all Letters Patent of the United States to be obtained therefore on said application or any continuation, division, renewal, substitute, or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefore through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property or other relevant International Treaties and Arrangements.					
ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;					
ASSIGNOR further covenants 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 as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, and enforce said application, said invention, and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.					
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
LEGAL NAME OF FIRST INVENTOR/ASSIGNOR					
Inventor: WATANABE, Kenji Date: January 23, 2018					
Signature: Watanabe Kenji LEGAL NAME OF SECOND INVENTOR/ASSIGNOR					
Inventor: OHMAE, Ryosuke Date: January 27, 2018					
Signature: Throat Ryosuke					

PATENT REEL: 045181 FRAME: 0700

LEGAL NAME OF THIRD INVENTOR/ASSIGNOR	1	
Inventor: KIHARA, Shinjiroh	Date:	February 7,2018
Signature: Kihara Shinjiroh LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR		/
LEGAL NAME OF FOURTH INVENTOR/ASSIGNOR		
Inventor: YASHIRO, Yoshimune	Date:	February 17, 2018
Signature: <u>Jashiro- Yoshirmunl</u>		

PATENT REEL: 045181 FRAME: 0701

RECORDED: 03/13/2018