

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KENTARO IRIE	12/11/2017
MASAE KITAYAMA	12/11/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAKAI DISPLAY PRODUCTS CORPORATION
<b>Street Address:</b>	1, TAKUMICHO, SAKAI-KU
<b>City:</b>	SAKAI-SHI, OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	590-8522
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15737486
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	KOHN-175
<b>NAME OF SUBMITTER:</b>	BRET E. FIELD
<b>SIGNATURE:</b>	/Bret E. Field, Reg. No. 37,620/
<b>DATE SIGNED:</b>	12/26/2017
<b>Total Attachments: 1</b>	
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ASSIGNMENT OF APPLICATION (JOINT)

Atty Docket No. KOHN-175

THIS ASSIGNMENT, by IRIE, Kentaro and KITAYAMA, Masae (hereinafter referred to as the assignors), residing in Osaka, Japan witnesseseth:

WHEREAS, the said assignors have invented certain new and useful improvements in:

"LIQUID CRYSTAL DISPLAY APPARATUS AND METHOD FOR DRIVING LIQUID CRYSTAL DISPLAY APPARATUS"

XXX filed on June 23, 2015 as U.S. Application Serial No. or PCT International Application No. PCT/JP2015/068078 designating the United States.

..... for which an application for a United States Patent was executed on \_\_\_\_\_, and

WHEREAS, Sakai Display Products Corporation, a Corporation duly organized under and pursuant to the laws of Japan, and having its principal place of business at 1, Takumicho, Sakai-ku, Sakai-shi, Osaka 590-8522 Japan (hereinafter referred to as the assignee) is desirous of acquiring their right, title and interest in and to said invention and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW THEREFORE, for good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the assignee, its successors, legal representatives and assigns, all of their right, title and interest in and to the above-mentioned invention, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and behalf and the use and behalf of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said invention, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said invention in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said invention, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said invention and the Letters Patent to be issued thereon for the use and behalf of said assignee, its successors, legal representatives and assigns.

Date Dec. 11, 2017

Name of Inventor Kentaro Irie  
IRIE, Kentaro

Date Dec. 11, 2017

Name of Inventor Masae Kitayama  
KITAYAMA, Masae

PATENT