

## 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>                   |
| TOSHIYUKI ISHIDA                                                                                                                                                                                | 07/12/2017                              |
| KENTA IDE                                                                                                                                                                                       | 07/12/2017                              |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                         |
| <b>Name:</b>                                                                                                                                                                                    | FUNAI ELECTRIC CO., LTD.                |
| <b>Street Address:</b>                                                                                                                                                                          | 7-7-1, NAKAGAITO                        |
| <b>City:</b>                                                                                                                                                                                    | DAITO, OSAKA                            |
| <b>State/Country:</b>                                                                                                                                                                           | JAPAN                                   |
| <b>Postal Code:</b>                                                                                                                                                                             | 574-0013                                |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                         |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                           |
| <b>Application Number:</b>                                                                                                                                                                      | 15653416                                |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                         |
| <b>Fax Number:</b>                                                                                                                                                                              | (202)293-0445                           |
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| <b>Correspondent Name:</b>                                                                                                                                                                      | GLOBAL IP COUNSELORS, LLP DAVID TARNOFF |
| <b>Address Line 1:</b>                                                                                                                                                                          | 1233 20TH STREET, NW                    |
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| <b>Address Line 4:</b>                                                                                                                                                                          | WASHINGTON, D.C. 20036-2680             |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | FN-US175137                             |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | DAVID L. TARNOFF                        |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /David L. Tarnoff/                      |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 07/18/2017                              |
| <b>Total Attachments: 1</b>                                                                                                                                                                     |                                         |
| source=FN-US175137_Assignment#page1.tif                                                                                                                                                         |                                         |

# ASSIGNMENT

[Executed in Japan]

WHEREAS, Toshiyuki ISHIDA, a citizen of Japan, whose address is  
c/o Funai Electric Co., Ltd. 7-7-1, Nakagaito, Daito, Osaka, 574-0013, Japan,

Kenta IDE, a citizen of Japan, whose address is  
c/o Funai Electric Co., Ltd. 7-7-1, Nakagaito, Daito, Osaka, 574-0013, Japan,

hereinafter referred to as the Assignor(s), have invented certain new and useful improvements in

## LIQUID CRYSTAL DISPLAY DEVICE

for which the Assignor(s) have executed an Application for United States Letters Patent

(X) Executed concurrently herewith

( ) Serial No. \_\_\_\_\_ Filed \_\_\_\_\_

AND WHEREAS, FUNAI ELECTRIC CO., LTD. having its principal place  
of business at 7-7-1, Nakagaito, Daito, Osaka, 574-0013, Japan

(hereinafter referred to as the Assignee), is desirous of acquiring the entire right, title, and interest  
in and to said invention and said Application and in and to any Letters Patent or Patents, United  
States or foreign as indicated below, to be obtained therefor and thereon:

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which  
is herewith acknowledged, the Assignor(s) sell, assign, and transfer, unto the Assignee, its  
successors, legal representatives and assigns, the entire right, title, and interest in the United States  
of America, and in all foreign countries, in, to and under said improvements, and said  
Application, and all original, divisional, renewal, continuation, substitute, or reissue applications  
thereof, including the right to sue and recover for any past infringement, and all rights of priority  
from the filing of said Application; and the Assignor(s) hereby authorize and request the  
Commissioner of Patents and Trademarks to issue all Letters Patent on said improvements or  
resulting therefrom to said Assignee herein, as assignee of the entire interest therein, for the sole  
use and behalf of said Assignee, its successors, and assigns, to the full end of the term or terms  
for which Letters Patent or Patents may be granted.

Further, the Assignor(s) and their legal representatives, heirs, and assigns do hereby agree and  
covenant without further remuneration that they will communicate to said Assignee, its  
successors, legal representatives and assigns, any facts known to them respecting said  
improvements whenever requested, and will testify in any interferences or other legal proceeding  
in which any of said applications or Letters Patent may become involved, sign all lawful papers,  
execute and deliver all divisional, continuing, reissue and other applications for Letters Patent on  
said improvements and all assignments thereof to said Assignee or its legal representatives,  
successors, or assigns, make all rightful oaths and generally do everything necessary to assist  
said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper  
patent protection for said improvements in the U.S. and said countries, the expenses incident to  
said applications to be borne and paid by said assignee.

The undersigned hereby grants the firm of **Global IP Counselors, LLP** the power to insert in this  
Assignment any further identification which may be necessary or desirable to comply with the rules  
of the U.S. Patent and Trademark Office for recordation of this Assignment.

IN TESTIMONY WHEREOF, the undersigned Assignor(s) have affixed their signatures.

This 12 day of July, 2017 Signature Toshiyuki Ishida  
Toshiyuki ISHIDA

This 12 day of July, 2017 Signature Kenta Ide  
Kenta IDE