

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SHENZHEN CHINA STAR OPTOELECTRONICS TECHNOLOGY CO., LTD | 09/18/2017 |
| RECEIVING PARTY DATA | |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15545690 |
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| DATE SIGNED: | 10/06/2017 |
| Total Attachments: 1 | |
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ASSIGNMENT OF RIGHTS: PATENT APPLICATION

SHENZHEN CHINA STAR OPTOELECTRONICS TECHNOLOGY CO., LTD(the "Assignor") is the owner of U.S. Patent Application entitled, "BIDIRECTIONAL SHIFT REGISTER UNITS, BIDIRECTIONAL SHIFT REGISTERS, AND DISPLAY PANELS", submitted on July 22, 2017, designated with Serial Number15/545690, (the "Patent Application").

SHENZHEN CHINA STAR OPTOELECTRONICS SEMICONDUCTOR DISPLAY TECHNOLOGY CO., LTD,(the "Assignee") desires to acquire all rights in and to the Patent Application and the patent (and any reissues or extensions) that may be granted.

Therefore, for valuable consideration, the receipt of which is acknowledged, Assignor assigns to Assignee 100%of his right, title, and interest in the invention and the Patent Application (as well as such rights in any divisions, continuations in whole or part or substitute applications) to Assignee for the entire term of the issued Patent and any reissues or extensions that may be granted and for the entire terms of any and all foreign patents that may issue from foreign applications (as well as divisions, continuations in whole or part or substitute applications) filed claiming the benefit of the Patent Application.

Assignor authorizes the United States Patent and Trademark Office to issue any Patents resulting from the Patent Application to Assignee according to the percentage interest indicated in this assignment. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this assignment not been made.

Assignor further agrees to: (a) cooperate with Assignee in the prosecution of the Application and foreign counterparts; (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer; and (c) perform such other acts as Assignee lawfully may request to obtain or maintain the Patent for the invention in any and all countries.

Assignor:

SHENZHEN CHINA STAR OPTOELECTRONICS TECHNOLOGY CO., LTD

Authorized Signature: _____

Title: IP Manager

Yang Wuyang

Date: September 18, 2017

Attorney Docket No. CH17089