

## 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>
MIAN ZENG	11/15/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SHENZHEN CHINA STAR OPTOELECTRONICS SEMICONDUCTOR DISPLAY TECHNOLOGY CO., LTD.
<b>Street Address:</b>	NO. 9-2, TANGMING RD, GONGMING STREET,
<b>Internal Address:</b>	GUANGMING NEW DISTRICT,
<b>City:</b>	SHENZHEN, GUANGDONG,
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	5181000
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15739776
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	CH17211
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<b>DATE SIGNED:</b>	12/25/2017
<b>Total Attachments: 2</b>	
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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned inventor(s) (hereinafter as "ASSIGNOR") identified as below hereby sells, assigns, transfers, and sets over to Shenzhen China Star Optoelectronics Semiconductor Display Technology Co., Ltd.

of No.9-2,Tangming Rd ,Gongming Street, Guangming new district, Shenzhen City, Guangdong 518000 China

(hereinafter as "ASSIGNEE"), its successors and assigns, the entire right, title and interest in and to the invention known as GOA CIRCUIT AND DISPLAY DEVICE

(hereinafter as "INVENTION"), for which a United States Patent Application was executed concurrently herewith or, if not so executed, was:

- a. executed on (Date of Filing);
  - b. filed on (Date of Filing), Application Serial No. (Application No); or
  - c. established by PCT International Patent Application No. PCT/CN2017/112288
- and the right to apply for and obtain patent protection therefor, including the right to file continuation and divisional patent applications in respect of the invention, and all rights and privileges under any Letters Patent which may be granted thereon, including all rights, if any, to sue for past infringement.

The ASSIGNOR hereby agrees without charge to said ASSIGNEE but at its expense to execute all necessary papers to be used in connection with the above-identified application and any additional, substitute, continuing, divisional, reexamination, or reissue applications, as the ASSIGNEE may deem necessary or expedient; to execute all papers in connection with any interference or other legal or quasi-legal proceedings relating to the above-identified application or any additional, substitute, continuing, divisional, reexamination, reissue applications thereof; to cooperate with the ASSIGNEE in every way possible in obtaining evidence and going forward in any such proceedings; and to perform all other affirmative acts which may be necessary or desirable to obtain a grant of a valid patent for said INVENTION.

The ASSIGNOR hereby agrees to communicate to the ASSIGNEE, or its representatives, any facts known to the ASSIGNOR respecting said INVENTION, and testify in any legal proceedings, sign all lawful papers, execute all necessary assignment papers to cause any and all Letters Patent to be issued to the ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid the ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said INVENTION.

The ASSIGNOR hereby authorizes and requests the Commissioner of the United States Patent and Trademark Office to issue any and all Letters Patent that may be granted upon any patent application for the INVENTION or any additional, substitute, continuing, or divisional applications thereof to the ASSIGNEE, its successors and assigns.

ASSIGNMENT (CONTINUED)

The ASSIGNOR hereby covenants and warrants that the ASSIGNOR has full right to convey the entire right, title and interest in and to said INVENTION by this assignment, free of any encumbrances and that no other agreement has been or will be executed in conflict herewith.

Signature of

Inventor 1

Zeng Mian

Executed Date

2017.11.15

Printed Name

ZENG, Mian

Residing at

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