

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HUILONG ZHU	04/12/2020
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17112690
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<b>ATTORNEY DOCKET NUMBER:</b>	52826.8US01 F1190487US
<b>NAME OF SUBMITTER:</b>	GARY J. EDWARDS
<b>SIGNATURE:</b>	/Gary J. Edwards/
<b>DATE SIGNED:</b>	12/04/2020
<b>Total Attachments: 2</b>	
source=F1190487US 52826.8US01 Assignment as filed 2020.12.04 4821-7069-5123 v.1#page1.tif	
source=F1190487US 52826.8US01 Assignment as filed 2020.12.04 4821-7069-5123 v.1#page2.tif	

## ASSIGNMENT

WHEREAS, WE,

(1) Huilong ZHU of Poughkeepsie, New York

have invented certain improvements in

### **SEMICONDUCTOR DEVICE WITH C-SHAPED ACTIVE AREA AND ELECTRONIC APPARATUS INCLUDING THE SAME**

for which we have executed an application for Letters Patent of the United States of America, filed on December 4, 2020 and assigned application serial number 17/112,690; and

WHEREAS, we authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

WHEREAS, INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES, a Chinese corporation, located at No.3 Beitucheng West Road, Chaoyang District, Beijing, 100029 China (hereinafter known as "Assignee") is desirous of obtaining the entire right, title, and interest in, to and under the said invention and the said application in the United States of America and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and other good and valuable consideration, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said Assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in, to and under the said invention, and the said application, and all divisional, renewal, substitutional, and continuing applications thereof, and all Letters Patent of the United States of America which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may be filed for said invention in any country or countries foreign to the United States of America, and all extensions, renewals, and reissues thereof, and all prior patents and patent applications from which a filing priority of the above-described patent application may be obtained, including the right to collect past damages; and we hereby authorize and request the Commissioner of Patents of the United States of America, and any official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said Assignee, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, renewal, substitutional, continuing, and reissue applications, make all rightful declarations and/or oaths and generally do everything possible to aid the said Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

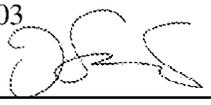
IN WITNESS THEREOF, each inventor has affixed his signature.

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First Inventor Name:           Huilong ZHU  
Residence Address:           93 Autumn Dr. Poughkeepsie, New York, 12603

Dated: 04/12/2020

  
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Inventor Signature