

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GUOYOU LIU	11/30/2017
RONGZHEN QIN	11/30/2017
JIANWEI HUANG	11/30/2017
HAIHUI LUO	11/30/2017
XIAOPING DAI	11/30/2017
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15580687
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ATTORNEY DOCKET NUMBER:	170109-FSU-ZCTE
NAME OF SUBMITTER:	YUE XU
SIGNATURE:	/YUE XU/
DATE SIGNED:	12/08/2017
Total Attachments: 2	
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COMBINED ASSIGNMENT AND DECLARATION

WHEREAS, **Guoyou LIU, Rongzhen QIN, Jianwei HUANG, Haihui LUO** and **Xiaoping DAI** hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for the United States Patent:

Title of Invention: INSULATED GATE BIPOLAR TRANSISTOR AND
PREPARATION METHOD THEREFOR

Any docket number: 170109-ESU-ZCTE

Application No.: 15580687

Filing date: 08-DEC-2017

WHEREAS, **ZHUZHOU CRRC TIMES ELECTRIC CO., LTD.** located at No.169, Shidai Road, Shifeng District, Zhuzhou, Hunan 412001, P.R. China, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and any U.S. Patent and Registration that may be granted on the same;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these present do assign to Assignee all right, title and interest in and to the aforesaid invention and application, and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Patents and Registrations that may hereafter be granted on any patent application claiming priority from the same in the same in the United States and all countries throughout the world, and which claim the priority from the application as provided by the Paris Convention. 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 Assignors had this Assignment not been made, for the full term of any Patent and Registration that may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation, or extension thereof.

Assignors further agree that they will, without charge to Assignor, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent Applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Patent and Registrations for the invention and

improvements in any and all countries, and to vest title therein in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request U.S. Fairsky LLP to insert herein above the application serial number and filing date of said application when known.

IN TESTIMONY WHEREOF, the Assignors (and each of them, if more than one) have signed below.

THE ABOVE-IDENTIFIED APPLICATION WAS MADE OR AUTHORIZED TO BE MADE BY ME. I BELIEVE THAT I AM THE ORIGINAL INVENTOR OR AN ORIGINAL JOINT INVENTOR OF A CLAIMED INVENTION IN THE APPLICATION. I HEREBY ACKNOWLEDGE THAT ANY WILLFUL FALSE STATEMENT MADE IN THIS DECLARATION IS PUNISHABLE UNDER 18 U.S.C. 1001 BY FINE OR IMPRISONMENT OF NOT MORE THAN FIVE (5) YEARS, OR BOTH.

Inventor one: Guoyou LIU	Date: <u>2017.11.30</u>
Signature: <u>Guoyou LIU</u>	
Inventor two: Rongzhen QIN	Date: <u>2017.11.30</u>
Signature: <u>Rongzhen QIN</u>	
Inventor three: Jianwei HUANG	Date: <u>2017.11.30</u>
Signature: <u>Jianwei Huang</u>	
Inventor four: Haihui LUO	Date: <u>2017.11.30</u>
Signature: <u>Haihui LUO</u>	
Inventor five: Xiaoping DAI	Date: <u>2017.11.30</u>
Signature: <u>Xiaoping DAI</u>	