

## 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	01/07/2015
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<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	14914246
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<b>ATTORNEY DOCKET NUMBER:</b>	5006.0032WU1	
<b>NAME OF SUBMITTER:</b>	JULIE ERICKSON	
<b>SIGNATURE:</b>	/Julie Erickson/	
<b>DATE SIGNED:</b>	03/15/2016	
<b>Total Attachments: 2</b>		
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Attorney Docket No.:

ASSIGNMENT

WHEREAS, I, Huilong ZHU, of 93 Autumn Dr. Poughkeepsie, New York 12603, United States of America ("Assignor"), have invented certain new and useful improvements in SEMICONDUCTOR DEVICES AND METHODS FOR MANUFACTURING THE SAME, for which an application for Letters Patent of the United States has been made, and which may be identified in the United States Patent Office by Application No. 14/914,246, filed February 24, 2016.

WHEREAS, INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES("Assignee"), a business entity organized and existing under the laws of the Country of China, and having its principal offices at No.3 Beitucheng West Road, Chaoyang District, Beijing 100029, China, is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor,

NOW, THEREFORE, for and in consideration of good and valuable consideration paid by Assignee to Assignor, the receipt and sufficiency of which is hereby acknowledged by me, I have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said Assignee, its successors and assigns, our entire right, title and interest in and to said invention, said application, all applications claiming priority to said application including all divisions, continuations or renewals thereof, and the Letters Patent, both foreign and domestic, that may or shall issue, therefrom including all reissues or extensions of such patents including all of our rights under the International Convention and further including the right to sue, counterclaim and recover for past, present and future infringement of the rights assigned or to be assigned, as fully and entirely as the same would have been held by the Assignors if this assignment had not been made, and we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the above mentioned Assignee in accordance herewith.

I hereby authorize the above-mentioned Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the date of execution and/or filing date and application number of said application when ascertained.

I further authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

Upon said consideration we do hereby covenant and agree with the said Assignee, its successors and assigns, that we will not execute in writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of the said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such

Attorney Docket No.:

applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

Date: 7/1/2015  
Day/Month/Year

  
Huilong ZHU