

## 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>
	XIUYU CAI	07/07/2015
	RUILONG XIE	07/02/2015
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	GLOBALFOUNDRIES INC.	
<b>Street Address:</b>	MAPLES CORPORATE SERVICES LIMITED, PO BOX 309	
<b>Internal Address:</b>	UGLAND HOUSE	
<b>City:</b>	GRAND CAYMAN	
<b>State/Country:</b>	CAYMAN ISLANDS	
<b>Postal Code:</b>	KY1-1104	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	15157861	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(631)844-0081	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Phone:</b>	6318440080	
<b>Email:</b>	elyssa@tb-iplaw.com	
<b>Correspondent Name:</b>	TUTUNJIAN & BITETTO, P.C.	
<b>Address Line 1:</b>	401 BROADHOLLOW ROAD, SUITE 402	
<b>Address Line 4:</b>	MELVILLE, NEW YORK 11747	
<b>ATTORNEY DOCKET NUMBER:</b>	YOR920150169US2(909 DIV)	
<b>NAME OF SUBMITTER:</b>	JAMES J. BITETTO	
<b>SIGNATURE:</b>	/jjb/	
<b>DATE SIGNED:</b>	05/18/2016	
<b>Total Attachments: 3</b>		
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**ASSIGNMENT**

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **METHOD AND STRUCTURE OF FORMING CONTROLLABLE  
UNMERGED EPITAXIAL MATERIAL**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:


Serial Number: \_\_\_\_\_ (insert series code and serial number here if/when available)

Whereas, GLOBALFOUNDRIES Inc. is a Cayman Islands company with an address of Maples Corporate Services Limited, PO Box 309, Ugland House, Grand Cayman, KY1-1104, Cayman Islands (herein referred to as "GLOBALFOUNDRIES"), desires to acquire, and each undersigned Inventor desires to grant to GLOBALFOUNDRIES, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to GLOBALFOUNDRIES (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to GLOBALFOUNDRIES, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by GLOBALFOUNDRIES, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in GLOBALFOUNDRIES, its successors, legal representatives, and assigns, whenever requested by GLOBALFOUNDRIES, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to GLOBALFOUNDRIES and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants GLOBALFOUNDRIES, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

Executed by Inventor 1 of 2

Signature:  Date: 07/07/2015  
(Xiuyu Cai)

IBM DOCKET NUMBER: YOR920150169US1 (163-909)

Executed by Inventor 2 of 2

Signature:  Date: 07/02/2015  
(Ruilong Xie)