

# PATENT ASSIGNMENT

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KRISHNENDU CHAKRABARTY	06/30/2011
BRANDON NOIA	08/06/2011
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<b>Street Address:</b>	OFFICE OF SCIENCE AND TECHNOLOGY
<b>City:</b>	DURHAM
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27710
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13172161
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<b>Total Attachments: 3</b> source=Assignment-AF#page1.tif source=Assignment-AF#page2.tif source=Assignment-AF#page3.tif	

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**PATENT**  
**REEL: 026715 FRAME: 0749**

## ASSIGNMENT

WHEREAS, we, the undersigned, residing at the indicated addresses given below, have invented certain new and useful improvements in **METHOD AND ARCHITECTURE FOR PRE-BOND PROBING OF TSVs IN 3D STACKED INTEGRATED CIRCUITS**, for which an application for United States Letters Patent was

☐ signed by me as dated below.

☒ filed June 29, 2011, Serial No. 13/172,161.


WHEREAS, DUKE UNIVERSITY, Office of Science and Technology, Durham, North Carolina, 27710 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent which may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in view of good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, we, the undersigned, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer, unto said DUKE UNIVERSITY, its successors and assigns, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, and extensions thereof.

We hereby authorize and request the Patent Office Officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said DUKE UNIVERSITY, as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said DUKE UNIVERSITY, its successors and assigns.

FURTHER, we agree that we will communicate to said DUKE UNIVERSITY, or its representatives, any facts known to me respecting said invention; testify in any legal proceedings; sign all lawful papers; execute all divisional, continuation, substitution, renewal, and reissue applications; execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said DUKE UNIVERSITY; make all rightful oaths; and generally do everything possible to aid the said DUKE UNIVERSITY, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 30<sup>th</sup> day of  
June, 2011.

Signature: 

Krishnendu Chakrabarty

Address:

106 Eastgreen Drive

Chapel Hill, NC 27516

WITNESS:

Signature: Printed Name: Sita P. SinghDate: June 30th 2011

IN TESTIMONY WHEREOF, I have hereunto set my hand this 06 day of August, 2011.

Signature: Brandon Noia

Address: **Brandon Noia**  
300 Swift Ave., Apt. 17  
Durham, NC 27705

WITNESS:

Signature: Qing Duan

Printed Name: Qing Duan

Date: 08/06/2011