PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BARBAROS ÖZYILMAZ	06/27/2013
GUANG XIN NI	06/27/2013
YI ZHENG	07/01/2013

RECEIVING PARTY DATA

Name:	NATIONAL UNIVERITY OF SINGAPORE	
Street Address:	21 LOWER KENT RIDGE ROAD	
City:	SINGAPORE	
State/Country:	SINGAPORE	
Postal Code:	119077	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14405671

CORRESPONDENCE DATA

Fax Number: (978)341-0136

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.

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Address Line 2: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.

Address Line 4: CONCORD, MASSACHUSETTS 01742

ATTORNEY DOCKET NUMBER: 4459.1074-001

NAME OF SUBMITTER: KELLIE J. VARNO

SIGNATURE: /Kellie J. Varno/

DATE SIGNED: 12/04/2014

Total Attachments: 2

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PATENT 503086803 REEL: 034379 FRAME: 0748

ASSIGNMENT

THIS ASSIGNMENT is made this 27th of June 2013 between:

Barbaros ÖZYILMAZ, a citizen of Germany c/o National University of Singapore of 21 Lower Kent Ridge Road, Singapore 119077;

Guang Xin NI, a citizen of China c/o National University of Singapore of 21 Lower Kent Ridge Road, Singapore 119077;

Yi ZHENG, a citizen of China c/o National University of Singapore of 21 Lower Kent Ridge Road, Singapore 119077;

("the Assignors") of the one part; and

NATIONAL UNIVERSITY OF SINGAPORE of 21 Lower Kent Ridge Road, Singapore 119077.

("the Assignee") of the other part.

WHEREAS

- A. The Assignors jointly developed an invention relating to "Gate-Tunable Graphene-Ferroelectric Hybrid Structure for Photonics and Plasmonics" ("the Invention"), which has been filed as U.S. Provisional Application No. 61/656,099 on 6 June 2012, and Patent Cooperation Treaty (PCT) Application No. PCT/SG2013/000237 on 6 June 2013 claiming priority to U.S. Provisional Application No. /656,099 on 6 June 2012 ("Patent Applications").
- B. The Assignors have previously agreed to assign and transfer to the Assignee all their rights, title and interests in the Invention and Patent Applications in all countries in the world ("the Territory") and that the Assignee should be substituted as the applicant in its place. They wish to formalise and confirm the assignment in this agreement ("Assignment").

NOW THIS ASSIGNMENT WITNESSETH AS FOLLOWS:

In consideration of the sum of One Singapore dollar (S\$1) now paid by the Assignee to the Assignors, receipt of which the Assignors hereby acknowledge, the Assignors assign to the Assignee, free from all encumbrances, all right, title and interest in respect of the Invention and the Patent Applications, all divisions, continuations or reissues filed thereon, all patents granted thereon, and TOGETHER WITH their right to apply for and obtain patents or other similar forms of protection in respect of the Invention or any part or parts of the Invention in the Territory and the right to claim priority of the Patent Applications when making applications in the Territory TOGETHER WITH the right to bring proceedings for infringement in the Territory for any previous infringement TO HOLD the same unto the Assignee and its successors and assign absolutely.

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- 2. The Assignors hereby covenant with the Assignee that the Assignors have the full right to convey the entire interest here assigned, have not done or knowingly suffered or been party or privy to any act or thing whereby the Assignors are prevented from assigning the Invention and the Patent Applications, and have not and will not execute any agreement in conflict herewith. The Assignors undertake they will not publish or disclose any particulars of the Invention and the Patent Applications to any person without the prior written consent of the Assignee.
- 3. At the request and cost of the Assignee, the Assignors shall execute all such documents and do all such acts as may be necessary to enable the Assignee or its successors, assigns, or other legal representatives to enjoy the full benefit of the rights confirmed and assigned by this Assignment including applying for and obtaining a patent or patents or other similar forms of protection in respect of the Invention in the Territory, vesting their right in the same in the Assignee when obtained, and testifying as to facts relating to the application and patents granted thereon in any litigation when requested to do so without further compensation, but at the expense of Assignee, its successors or other legal representatives.
- 4. This Assignment may be entered into in any number of counterparts, all of which taken together shall constitute one and the same instrument. Any party hereto may enter into this Assignment by signing any such counterpart.

IN WITNESS whereof the Assignors and Assignee have hereunto executed this Assignment the date and year first above written.

Assignors

Barbaros ÖZYILMAZ

Guang Xin NI

Yi ZHENG

Witness Name and signature

1107

Witness Name and signature

Mitages Name and signature

<u>Assignee</u>

Signed for and on behalf of

NATIONAL UNIVERSITY OF SINGAPORE

DR LILY CHAN

CED , NUS ENTERPRISE

in the presence of

Witness Name and signature

PATENT

REEL: 034379 FRAME: 0750

RECORDED: 12/04/2014