

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4746394

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the TYPOGRAPHICAL ERROR IN THE 2ND ASSIGNEE'S NAME previously recorded on Reel 044278 Frame 0286. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENTS FOR DETAILS).
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YU ZHU	11/20/2017
MING ZHANG	11/20/2017
ANLIN CHEN	11/20/2017
RONG CHENG	11/20/2017
KAIMING YANG	11/20/2017
FENG LIU	11/20/2017
YUJING SONG	11/20/2017
FAN ZHI	11/20/2017
JINCHUN HU	11/20/2017
DENGFENG XU	11/20/2017
HAIHUA MU	11/20/2017
CHUXIONG HU	11/20/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TSINGHUA UNIVERSITY
<b>Street Address:</b>	POST BOX 100084 BRANCH 82
<b>Internal Address:</b>	TSINGHUA UNIVERSITY, PATENT OFFICE
<b>City:</b>	HAIDIAN DISTRICT, BEIJING
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100084
<b>Name:</b>	BEIJING U-PRECISION TECH CO., LTD.
<b>Street Address:</b>	ROOM B1009
<b>Internal Address:</b>	XUEYAN PLAZA, TUSPARK
<b>City:</b>	HAIDIAN DISTRICT, BEIJING
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100084
<b>PROPERTY NUMBERS Total: 1</b>	

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15568118

  

**CORRESPONDENCE DATA**

**Fax Number:** (248)645-1568

*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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<b>ATTORNEY DOCKET NUMBER:</b>	113580.00002
<b>NAME OF SUBMITTER:</b>	DANIEL H. BLISS
<b>SIGNATURE:</b>	/DANIEL H. BLISS/
<b>DATE SIGNED:</b>	12/21/2017

**Total Attachments: 7**

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<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YU ZHU	11/20/2017
MING ZHANG	11/20/2017
ANLIN CHEN	11/20/2017
RONG CHENG	11/20/2017
KAIMING YANG	11/20/2017
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FAN ZHI	11/20/2017
JINCHUN HU	11/20/2017
DENGFENG XU	11/20/2017
HAIHUA MU	11/20/2017
CHUXIONG HU	11/20/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TSINGHUA UNIVERSITY
<b>Street Address:</b>	POST BOX 100084 BRANCH 82
<b>Internal Address:</b>	TSINGHUA UNIVERSITY, PATENT OFFICE
<b>City:</b>	HAIDIAN DISTRICT, BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100084
<b>Name:</b>	BEIJING U-PRECISION TECH CO., LTD.
<b>Street Address:</b>	ROOM B1009
<b>Internal Address:</b>	XUEYAN PLAZA, TUSPARK
<b>City:</b>	HAIDIAN DISTRICT, BEIJING
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	100084
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>

<b>Application Number:</b>	15568118
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(248)645-1568
<b>Phone:</b>	248-645-1483
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<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>Correspondent Name:</b>	HOWARD & HOWARD ATTORNEYS PLLC
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<b>ATTORNEY DOCKET NUMBER:</b>	113580.00002
<b>NAME OF SUBMITTER:</b>	DANIEL H. BLISS
<b>Signature:</b>	/Daniel H. Bliss/
<b>Date:</b>	12/01/2017
<b>Total Attachments: 3</b> source=GranderIP2Assignment#page1.tif source=GranderIP2Assignment#page2.tif source=GranderIP2Assignment#page3.tif	
<b>RECEIPT INFORMATION</b>	
<b>EPAS ID:</b>	PAT4714683
<b>Receipt Date:</b>	12/01/2017

**ASSIGNMENT**  
**(Patent Application - Joint Inventors)**

WHEREAS we, YU ZHU, MING ZHANG, ANLIN CHEN, RONG CHENG, KAIMING YANG, FENG LIU, YUJING SONG, FAN ZHI, JINCHUN HU, DENG FENG XU, HAIHUA MU, and CHUXIONG HU, residing respectively at POST BOX 100084 BRANCH 82, TSINGHUA UNIVERSITY, PATENT OFFICE, HAIDIAN DISTRICT, BEIJING 100084, CHINA, have invented a new and useful invention entitled

**SIX-DEGREE-OF-FREEDOM DISPLACEMENT MEASUREMENT METHOD FOR  
EXPOSURE REGION ON SILICON WAFER STAGE**

which is set forth in a patent application in the United States as Serial No. 15/568,118, filed on October 20, 2017, Attorney Docket No. 113580.00002; and

WHEREAS, TSINGHUA UNIVERSITY and BEIJING U-PRECISION TECH CO., LTD., having its principal place of business at POST BOX 100084 BRANCH 82, TSINGHUA UNIVERSITY, PATENT OFFICE, HAIDIAN DISTRICT, BEIJING 100084, CHINA, and ROOM B1009, XUEYAN PLAZA, TUSPARK, HAIDIAN DISTRICT, BEIJING 100084, CHINA, hereinafter referred to as ASSIGNEE, is desirous of acquiring said invention and said patent application and any domestic and foreign patent or patents that may be obtained therefore or thereupon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of the sum of One United States Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, we do hereby sell, assign, transfer and set over unto said ASSIGNEE, its successors, assigns, or other legal representatives, the full and entire right, title and interest in and to said invention and said patent application, including the right of said ASSIGNEE, its successors, assigns, or other legal representatives to file any and all divisional, continuation, and continuation-in-part applications claiming priority to said patent application, or the right to seek reissues or extensions of any patent that may be issued for said invention, with the same to be held and enjoyed by said ASSIGNEE as fully and entirely as the same would have been held by us had this Assignment and sale not been made; and

HEREBY AGREE that we, our heirs, successors, assigns or other legal representatives will at any time upon the request and at the expense of said ASSIGNEE, its successors, assigns, or other legal representatives, without undue delay, execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention, said applications, and any patent or patents that may be obtained therefore; and

HEREBY FURTHER ASSIGN unto said ASSIGNEE, its successors, assigns, or other legal representatives, the whole right, title and interest in and to said invention throughout all countries foreign to the United States, including the right to file any foreign patent applications claiming priority to said patent application and otherwise seek any patent in any foreign country, and including the right to file any divisional, continuation, and continuation-in-part applications claiming priority to said foreign patent application where such procedure is proper, or the right to seek reissues or extensions of any patent in any foreign country, and we do hereby ratify any acts of said ASSIGNEE in applying for a patent in said ASSIGNEE's own name in any foreign country where such procedure is proper and do hereby agree to execute said foreign patent applications in the several countries where it is necessary that the same be executed by the inventors, and to execute

assignments of said foreign patent applications and any patents to be obtained therefore to said ASSIGNEE; and

HEREBY AUTHORIZE and request the Commissioner of Patents and Trademarks of the United States and any official of any country foreign to the United States whose duty it is to issue patents, to issue any patent and any reissues and extensions thereof to said ASSIGNEE in accordance with this Assignment; and

HEREBY AUTHORIZE the attorney, as designated in any Power of Attorney we have executed with respect to this invention, to insert the filing date(s) and serial number(s) of the above identified patent application(s) when they become known in the space above, if not already provided; and

HEREBY REPRESENT and warrant that we have the full right to convey the entire interest of said invention and said applications herein assigned and have not granted any rights inconsistent with the rights granted herein.

2017.11.20  
Date

Yu Zhu  
Yu Zhu

2017.11.20  
Date

Ming Zhang  
Ming Zhang

2017.11.20  
Date

Anlin Chen  
Anlin Chen

2017.11.20  
Date

Rong Cheng  
Rong Cheng

2017.11.20  
Date

Kaiming Yang  
Kaiming Yang

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Date

Feng Liu  
Feng Liu

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Date

Yujing Song  
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2017.11.20  
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Fan Zhi  
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2017.11.20

Date

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Date

Jinchun Hu

Jinchun Hu

Dengfeng Xu

Dengfeng Xu

Haihua Mu

Haihua Mu

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Please address all correspondence and telephone calls and, upon recordation, please return this document to:

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