

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3009656

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	BAOSUO ZHOU	06/30/2006
	MIRZAFER K. ABATCHEV	06/30/2006
	ARDAVAN NIROOMAND	07/06/2006
	PAUL A. MORGAN	07/07/2006
	SHUANG MENG	06/30/2006
	JOSEPH N. GREELEY	07/07/2006
	BRIAN J. COPPA	07/07/2006
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	MICRON TECHNOLOGY, INC.	
<b>Street Address:</b>	8000 S. FEDERAL WAY	
<b>City:</b>	BOISE	
<b>State/Country:</b>	IDAHO	
<b>Postal Code:</b>	83706	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	11484271
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>	(509)838-3424	
<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>	5096244276	
<b>Email:</b>	docketing@wellsstjohn.com	
<b>Correspondent Name:</b>	ROBERT HYTA	
<b>Address Line 1:</b>	601 W. 1ST AVENUE	
<b>Address Line 2:</b>	SUITE 1300	
<b>Address Line 4:</b>	SPOKANE, WASHINGTON 99201	
<b>ATTORNEY DOCKET NUMBER:</b>	MI22-4079	
<b>NAME OF SUBMITTER:</b>	SUSAN M. CHAMPAGNE	
<b>SIGNATURE:</b>	/SUSAN M. CHAMPAGNE/	
<b>DATE SIGNED:</b>	09/04/2014	

PATENT

**Total Attachments: 5**

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Baosuo Zhou

Ardavan Niroomand

Ardavan Niroomand

Shuang Meng

Shuang Meng

**Brian J. Copp**

**Brian J. Copp**

**Filed: (Concurrently Herewith)**

**For: PITCH REDUCTION TECHNOLOGY USING  
ALTERNATING SPACER DEPOSITIONS DURING  
THE FORMATION OF A SEMICONDUCTOR  
DEVICE AND SYSTEMS INCLUDING SAME**

## ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

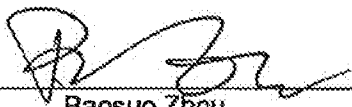
SELL, ASSIGN AND TRANSFER to MICRON TECHNOLOGY, INC., (the "Assignee"), a corporation of Delaware having a place of business at 8000 S. Federal Way, Boise, ID 83706, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled: such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

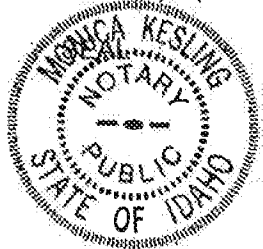
COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature)  Date: 6/30/2006  
Baosuo Zhou

STATE OF IDAHO )  
 ) ss.  
County of Ada )

BEFORE ME, this 30<sup>th</sup> day of June, 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



  
Notary or Consular Officer  
My Commission Expires: 9-8-11

(Signature) Mirzafer K. Abatchev Date: 06/30/2006

Mirzafer K. Abatchev

STATE OF IDAHO )

) ss.

County of Ada )

BEFORE ME, this 30<sup>th</sup> day of June 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



Monica Kesling  
Notary or Consular Officer

My Commission Expires: 9-8-11

(Signature) Ardavan Niroomand

Ardavan Niroomand

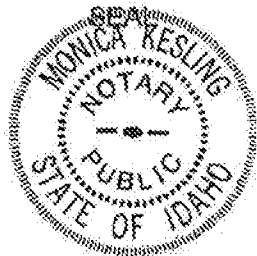
Date: 7/6/2006

STATE OF IDAHO )

) ss.

County of Ada )

BEFORE ME, this 16<sup>th</sup> day of July 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



Monica Kesling  
Notary or Consular Officer

My Commission Expires: 9-8-11

(Signature) Paul A. Morgan Date: 7/7/6

STATE OF IDAHO )

) ss.

County of Ada )

BEFORE ME, this 7<sup>th</sup> day of July 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



Arthur Tycka  
Notary or Consular Officer

My Commission Expires: 3/15/12

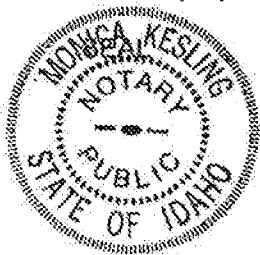
(Signature) Shuang Meng Date: 6/30/06

STATE OF IDAHO )

) ss.

County of Ada )

BEFORE ME, this 30<sup>th</sup> day of June 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



Monica Kesling  
Notary or Consular Officer

My Commission Expires: 9-8-11

(Signature) Joseph N. Greeley Date: 7/7/2006  
Joseph N. Greeley

STATE OF IDAHO )  
) ss.  
County of Ada )

BEFORE ME, this 7<sup>th</sup> day of July 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.



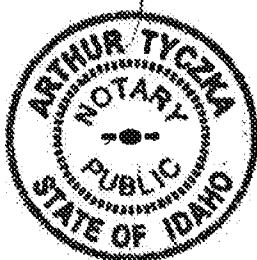
Arthur Tyckza  
Notary or Consular Officer  
My Commission Expires: 3/15/12

(Signature) Brian J. Coppa Date: 7-7-06  
Brian J. Coppa

STATE OF IDAHO )  
) ss.  
County of Ada )

BEFORE ME, this 7<sup>th</sup> day of July 2006, personally appeared the above-named individual(s), to me known to be the person(s) who is (are) described in and who executed the foregoing assignment instrument and acknowledged to me that he/she (they) executed the same of his/her (their) own free will for the purpose therein expressed.

SEAL



Arthur Tyckza  
Notary or Consular Officer  
My Commission Expires: 3/15/12