s or the new address(es) below.
receiving party(ies)
receiving party(ies)
<u>. </u>
ederal Way
Zip: 83716
ss(es) attached? 🗌 Yes 🗹 N
ications and patents
1(h) & 3.41) \$ <u>40</u>
arged by credit card
arged by credit card arged to deposit account
arged by credit card arged to deposit account rnment interest not affecting title
arged by credit card arged to deposit account rnment interest not affecting title
arged by credit card arged to deposit account rnment interest not affecting title
arged by credit card arged to deposit account rnment interest not affecting title Numbers ation Date
arged by credit card arged to deposit account rnment interest not affecting title Numbers ation Date umber <u>13-3092</u>
arged by credit card arged to deposit account rnment interest not affecting title Numbers ation Date
arged by credit card arged to deposit account rnment interest not affecting title Numbers ation Date umber _13-3092 ame <u>Kevin D. Martin</u>
arged by credit card arged to deposit account rnment interest not affecting title Numbers ation Date umber <u>13-3092</u>

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Baosuo Zhou Mirzafer K. Abatchev Ardavan Niroomand Paul A. Morgan Shuang Meng Joseph N. Greeley Brian J. Coppa

Serial No.: Not Assigned

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;

Micron Technology, Inc.

1

Examiner: Not Assigned

Atty. Docket: 2005-0866.00/US

2005-0866.00/US

PATENT REEL: 018282 FRAME: 0156



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)Baosuo Zhou Date: Date:
STATE OF IDAHO)
) ss. County of Ada)
BEFORE ME, this <u>30</u> day of <u>2006</u> , 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.



Micron Technology, Inc.

annannannannan ann

PATENT REEL: 018282 FRAME: 0157

2005-0866.00/US

2

(Signature)	Hwaret	_Date:	06/30/2986
Mirzafer K. Aba	tchev		
STATE OF IDAHO)) ss.			
County of Ada	_		
BEFORE ME, this appeared the above-named individ (are) described in and who execu acknowledged to me that he/she (free will for the purpose therein exp	uted the forego (they) executed	own to be ing assign	nment instrument and
	otary or Consula y Commission E	xpires: <u></u>	2-18-11
(Signature)Ardavan Niroon	nand	_ Date:	7/6/2006
STATE OF IDAHO)) ss.	1		
County of Ada			
BEFORE ME, this appeared the above-named individ (are) described in and who execu acknowledged to me that he/she (free will for the purpose therein exp	lual(s), to me kn uted the forego (they) executed	ing assigi	nment instrument and



ע ל

Notary or Consular Officer My Commission Expires: <u>9-8-11</u>

Micron Technology, Inc.

2005-0866.00/US

PATENT REEL: 018282 FRAME: 0158

(Signature) Date:D
STATE OF IDAHO)
) ss. County of Ada)
BEFORE ME, this 7^{12} day of 3^{12} day of 3^{12} 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: 3/15/12
(Signature) Date: Date: 6/30/06
STATE OF IDAHO)) ss.
County of Ada)
BEFORE ME, this day of 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: _

Micron Technology, Inc.

2005-0866.00/US

PATENT REEL: 018282 FRAME: 0159

- 	• • • •
(Signature)Joseph N. G	hip M Date: 7/7/2006
STATE OF IDAHO)	
) ss. County of Ada)	
(are) described in and who ex	ividual(s), to me known to be the person(s) who is ecuted the foregoing assignment instrument and le (they) executed the same of his/her (their) own
SEATINUR TAG	Notary or Consular Officer My Commission Expires: 3/15/12
(Signature)Brian J. Cop	Date: <u>7-7-06</u>
STATE OF IDAHO)	
) ss. County of Ada	7
BEFORE ME, this $\frac{7'}{1}$	_ day of 2006, personally
(are) described in and who ex	ecuted the foregoing assignment instrument and e (they) executed the same of his/her (their) own
SEAL	Ant Type -
	Notary or Consular Officer
JUR TH	My Commission Expires:
STOTAP 12	
OF IDAN	

Micron Technology, Inc.

2005-0866.00/US

PATENT REEL: 018282 FRAME: 0160

RECORDED: 07/10/2006