

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Debra M. Bell</td> <td>08/21/2013</td> </tr> <tr> <td>Jeff A. McClain</td> <td>08/21/2013</td> </tr> <tr> <td>Brian P. Callaway</td> <td>08/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Debra M. Bell	08/21/2013	Jeff A. McClain	08/21/2013	Brian P. Callaway	08/21/2013		
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Jeff A. McClain	08/21/2013										
Brian P. Callaway	08/21/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Micron Technology, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>8000 South Federal Way</td> </tr> <tr> <td>City:</td> <td>Boise</td> </tr> <tr> <td>State/Country:</td> <td>IDAHO</td> </tr> <tr> <td>Postal Code:</td> <td>83716-9632</td> </tr> </table>		Name:	Micron Technology, Inc.	Street Address:	8000 South Federal Way	City:	Boise	State/Country:	IDAHO	Postal Code:	83716-9632
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14010120</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14010120						
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CORRESPONDENCE DATA											
Fax Number:	2062999288										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	206-903-8757										
Email:	ip.docket.se@dorsey.com										
Correspondent Name:	Dorsey & Whitney LLP-IP Dept.-MTI										
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Address Line 4:	Seattle, WASHINGTON 98104-7043										
ATTORNEY DOCKET NUMBER:	P238205.US.01										
NAME OF SUBMITTER:	Michael A. Swett										
Signature:	/Michael A. Swett/										

Date:

08/26/2013

Total Attachments: 3

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Debra M. Bell, Jeff A. McClain, and
Brian P. Callaway

Filed : Concurrently herewith

For : APPARATUSES AND METHODS
FOR SELECTIVE ROW REFRESHES

Docket No. P238205.US.01

Disclosure No. 2012-0784

ASSIGNMENT :

Enclosed for recording

Previously recorded

Date: _____

Reel: _____

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


SELL, ASSIGN AND TRANSFER to **Micron Technology, Inc.** (the "Assignee"), a corporation of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83716-9632, 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 "**APPARATUSES AND METHODS FOR SELECTIVE ROW REFRESHES**"; 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 of America;

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.

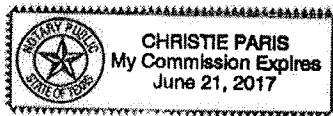

Debra M. Bell


Date: 8-21-13

STATE OF TEXAS)
County of Collin) ss.

BEFORE ME, this 21st day of August, 2013, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that she executed the same of her own free will for the purpose therein expressed.

SEAL



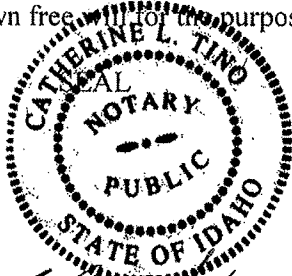

Notary or Consular Officer
My Commission Expires June 21, 2017

Jeff A. McClain
Jeff A. McClain

Date: 8/21/13

STATE OF IDAHO)
County of Ada) ss.

BEFORE ME, this 21 day of August, 2013, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



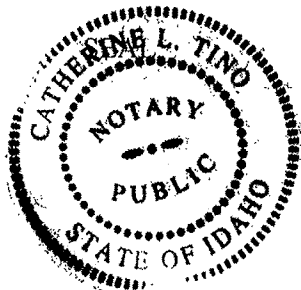
Catherine L. Tino
Notary or Consular Officer
My Commission Expires 12/20/18

Brian P. Callaway
Brian P. Callaway

Date: 8/21/2013

STATE OF IDAHO)
County of Ada) ss.

BEFORE ME, this 21 day of August, 2013, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.



Catherine L. Tino
Notary or Consular Officer
My Commission Expires 12/20/18