

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Timothy B. Cowles</td> <td>09/09/2013</td> </tr> <tr> <td>Steven M. Bodily</td> <td>09/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	Timothy B. Cowles	09/09/2013	Steven M. Bodily	09/09/2013				
Name	Execution Date										
Timothy B. Cowles	09/09/2013										
Steven M. Bodily	09/09/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Micron Technology, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>8000 S 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 S Federal Way	City:	Boise	State/Country:	IDAHO	Postal Code:	83716-9632
Name:	Micron Technology, Inc.										
Street Address:	8000 S Federal Way										
City:	Boise										
State/Country:	IDAHO										
Postal Code:	83716-9632										
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>14031432</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14031432						
Property Type	Number										
Application Number:	14031432										
CORRESPONDENCE DATA											
Fax Number: 6126599344 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 612-659-9340 Email: reinhard@bipl.net Correspondent Name: BROOKS, CAMERON & HUEBSCH , PLLC Address Line 1: 1221 NICOLLET AVENUE, SUITE 500 Address Line 4: MINNEAPOLIS, MINNESOTA 55403											
ATTORNEY DOCKET NUMBER:	1002.1500001[13-028700US]										
NAME OF SUBMITTER:	Jacob T. Kern										
Signature:	/Jacob T. Kern/										
Date:	09/19/2013										
Total Attachments: 3 source=00264699#page1.tif source=00264699#page2.tif source=00264699#page3.tif											

OP \$40.00 14031432

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Docket No. 1002.1500001

Timothy B. Cowles, et al.

Disclosure No. 2013-0287.00/US

Filed: Concurrently Herewith

For : DATA SHIFTING

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 "DATA SHIFTING"; 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;

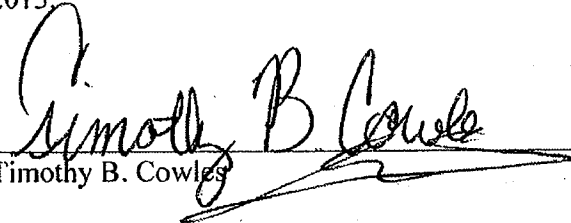
AUTHORIZE AND REQUEST the issuing authority to issue and an all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant mortgage, license, or other agreement affecting the right and property herein conveyed has been or will be made to others by the undersigned, and that 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 improvement 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.

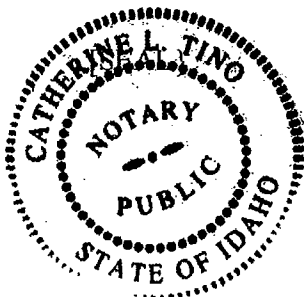
IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_ day of \_\_\_\_\_, 2013.

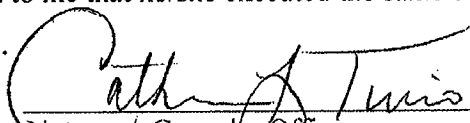
  
Timothy B. Cowles

Date: 9/9/13

STATE OF IDAHO )  
COUNTY OF ADA ) ss.

BEFORE ME, this 9<sup>th</sup> day of September, 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/she executed the same of his/her own free will for the purpose therein expressed.



  
Notary or Consular Officer  
My Commission Expires 12/20/18

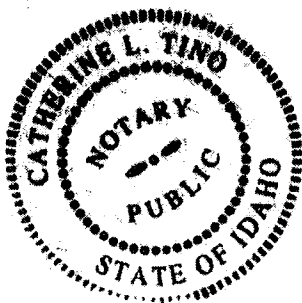
Steven M. Bodily  
Steven M. Bodily

Date: 9/9/2013

STATE OF IDAHO )  
COUNTY OF ADA ) ss.

BEFORE ME, this 9<sup>th</sup> day of September, 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/she executed the same of his/her own free will for the purpose therein expressed.

[SEAL]



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