

**PATENT ASSIGNMENT**

Electronic Version v1.1  
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Shyam Surthi	01/17/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Micron Technology, Inc.
<b>Street Address:</b>	8000 South Federal Way
<b>Internal Address:</b>	Mailstop 525
<b>City:</b>	Boise
<b>State/Country:</b>	IDAHO
<b>Postal Code:</b>	83707-0006
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13354982
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(801)531-9168
<b>Phone:</b>	8015321922
<b>Email:</b>	djpfeil@traskbritt.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Correspondent Name:</b>	TraskBritt
<b>Address Line 1:</b>	P.O. Box 2550
<b>Address Line 4:</b>	Salt Lake City, UTAH 84110
<b>ATTORNEY DOCKET NUMBER:</b>	10690US (11-0308.00)
<b>NAME OF SUBMITTER:</b>	Stephen E. Pulley
<b>Total Attachments: 2</b> source=Jan-20-2012-Assignment-10690US#page1.tif source=Jan-20-2012-Assignment-10690US#page2.tif	

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**ASSIGNMENT**

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

**SELL, ASSIGN AND TRANSFER** to Micron Technology, Inc. ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at 8000 South Federal Way, Mailstop 525, Boise, ID 83707-0006, 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 each undersigned ASSIGNOR concurrently herewith entitled **VERTICAL MEMORY DEVICES, APPARATUSES INCLUDING VERTICAL MEMORY DEVICES, AND METHODS FOR FORMING SUCH VERTICAL MEMORY DEVICES AND APPARATUSES**, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined 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 made in the United States;

**AUTHORIZE** the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

**AUTHORIZE AND REQUEST** the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

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

**COVENANT**, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

AGREE AND ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNOR:

Shyam Surthi  
Residing at: 4179 South Danridge Court, Boise, ID 83716

Date 1/17/2012

COUNTY OF Ada )  
: ss.  
STATE OF Idaho )

On this 17<sup>th</sup> day of January, 2012, before me personally appeared Shyam Surthi to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same.

Arthur Tyczka  
Notary Public in and for said County and State

My Commission Expires:

3-15-12

