

## PATENT ASSIGNMENT COVER SHEET

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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>                  |
| ANDREA FILIPPINI  | 08/02/2011                             |
| LUCA FERRARIO   | 08/02/2011                             |
| MARCELLO MARIANI  | 08/02/2011                             |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | MICRON TECHNOLOGY, INC.                |
| <b>Street Address:</b>  | 8000 SOUTH FEDERAL WAY                 |
| <b>City:</b>  | BOISE                                  |
| <b>State/Country:</b>   | IDAHO                                  |
| <b>Postal Code:</b>   | 83716-9632                             |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                          |
| Application Number:   | 14748527                               |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (612)659-9344                          |
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| <b>Email:</b>   | stevens@bipl.net                       |
| <b>Correspondent Name:</b>  | BROOKS, CAMERON & HUEBSCH , PLLC       |
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| <b>Address Line 4:</b>  | MINNEAPOLIS, MINNESOTA 55403           |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 1001.0500003[11-023002US]              |
| <b>NAME OF SUBMITTER:</b>   | ROBERT J. HAGEN                        |
| <b>SIGNATURE:</b>   | /Robert J. Hagen/                      |
| <b>DATE SIGNED:</b>   | 06/24/2015                             |
| <b>Total Attachments: 3</b>   |  |
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| source=00378780#page3.tif   |  |

## ASSIGNMENT

WHEREAS, WE, Filippini, Andrea, residing at Via Via Cadorna 109, Turate, CO 22078, ITALY, Ferrario, Luca, residing at Via Vis Friuli 6, Ferno, VA 21010, ITALY and Mariani, Marcello, residing at Via Via Sangallo 13, Milano, MI 20133, ITALY made certain new and useful inventions and improvements for which an application for Letters Patent of the United States on even date herewith, which is entitled VERTICAL DEVICES AND METHODS OF FORMING.

AND WHEREAS, Micron Technology, Inc., a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 8000 South Federal Way, Boise, ID 83716-9632, (hereinafter "Assignee") is desirous of acquiring the entire right, title, and interest in and to said inventions, improvements, and application and in and to any Letters Patent to be obtained therefore;

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto said Assignee, which accepts its successors or assigns, the right, title, and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patent and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title, and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute, and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to more effectually secure and vest in said Assignee, its successors or assigns the entire right, title, and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned, and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2<sup>nd</sup> day of AUGUST 2011.

Andrea Filippini  
Andrea Filippini

WITNESS:

BENEDETTA GARDINO  
Printed Name

Benedetta Gardino  
Signature

8/08/2011  
(Date)

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2<sup>nd</sup> day of AUGUST 2011.

Luca Ferrario  
Luca Ferrario

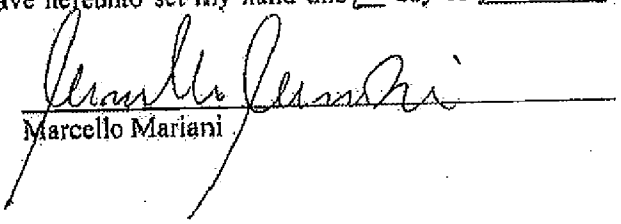
WITNESS:

BENEDETTA GARDINO  
Printed Name

Benedetta Gardino  
Signature

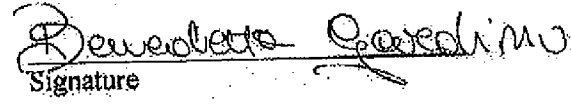
8/08/2011  
(Date)

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2<sup>nd</sup> day of AUGUST,  
2011.

  
\_\_\_\_\_  
Marcello Mariani

WITNESS:

BENEDETTA GARDINO  
\_\_\_\_\_  
Printed Name

  
\_\_\_\_\_  
Signature

2/08/2011  
\_\_\_\_\_  
(Date)