

## 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>     |
| NANAE YOKOYAMA  | 12/05/2017                |
| RYOTA SUZUKI  | 12/06/2017                |
| MAKOTO SATO   | 12/07/2017                |
| <b>RECEIVING PARTY DATA</b>   |                           |
| <b>Name:</b>  | MICRON TECHNOLOGY, INC.   |
| <b>Street Address:</b>  | 8000 SOUTH FEDERAL WAY    |
| <b>Internal Address:</b>  | MS 1-525                  |
| <b>City:</b>  | BOISE                     |
| <b>State/Country:</b>   | IDAHO                     |
| <b>Postal Code:</b>   | 83716                     |
| <b>PROPERTY NUMBERS Total: 1</b>  |                           |
| <b>Property Type</b>  | <b>Number</b>             |
| Application Number:   | 15835210                  |
| <b>CORRESPONDENCE DATA</b>  |                           |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | MI22-6403                 |
| <b>NAME OF SUBMITTER:</b>   | CHERYL A. THOMPSON        |
| <b>SIGNATURE:</b>   | /Cheryl A. Thompson/      |
| <b>DATE SIGNED:</b>   | 12/07/2017                |
| <b>Total Attachments: 6</b>   |                           |
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## ASSIGNMENT

### PARTIES TO THE ASSIGNMENT:

#### INVENTORS:

Nanae Yokoyama  
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2-1, Yaesu 2-chome  
Chuo-ku, Tokyo 104-0228  
Japan

Ryota Suzuki  
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Chuo-ku, Tokyo 104-0228  
Japan

#### ASSIGNEE:

Micron Technology, Inc.  
MS 1-525  
8000 South Federal Way  
Boise, ID 83716  
United States

### BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed  
in a United States patent application titled Apparatuses Having an

Interconnect Extending from an Upper Conductive Structure, Through a Hole in Another Conductive Structure, and to an Underlying Structure.

Micron Technology, Inc. (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

**THE PARTIES AGREE AS FOLLOWS:**

In consideration of good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, INVENTORS have sold, assigned and transferred, and by these present do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, renewal or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries and under those conventions where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent. INVENTORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of ASSIGNEE to apply for patent and other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.


To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Dated: 2017/12/05

Signature:   
Nanae Yokoyama

On this day before me personally appeared Nanae Yokoyama, known or identified to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed within the Assignment, and acknowledged to me that he/she executed the Assignment in his/her authorized capacity, and that by his/her signature on the Assignment, the person executed the Assignment.

Witness Name (printed): Masayoshi Yamazaki

Witness Signature: 

Date: 12/05/2017

Witness Name (printed): Shoko Tomita

Witness Signature: 

Date: 12-05-2017

Dated: 12/06/2017

Signature: Ryota Suzuki  
Ryota Suzuki

On this day before me personally appeared Ryota Suzuki, known or identified to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed within the Assignment, and acknowledged to me that he/she executed the Assignment in his/her authorized capacity, and that by his/her signature on the Assignment, the person executed the Assignment.

Witness Name (printed): Masayoshi Yamazaki

Witness Signature: Masayoshi Yamazaki

Date: 12/6/2017

Witness Name (printed): Shoko Tomita

Witness Signature: Shoko Tomita

Date: 12-26-2017

Dated: 12/07/2017

Signature: Makoto Sato  
Makoto Sato

On this day before me personally appeared Makoto Sato, known or identified to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed within the Assignment, and acknowledged to me that he/she executed the Assignment in his/her authorized capacity, and that by his/her signature on the Assignment, the person executed the Assignment.

Witness Name (printed): Masayoshi Yamazaki

Witness Signature: Masayoshi Yamazaki

Date: 12/7/2017

Witness Name (printed): Shoko Tomita

Witness Signature: Shoko Tomita

Date: 12-07-2017