PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| BRANDON P. WIRZ | 11/14/2013 |
| JASPREET S. GANDHI | 11/13/2013 |
| CHRISTOPHER J. GAMBEE | 11/14/2013 |
| SATISH YELDANDI | 11/13/2013 |

RECEIVING PARTY DATA

| Name: | MICRON TECHNOLOGY, INC. |
|-------------------|-------------------------|
| Street Address: | 8000 S. FEDERAL WAY |
| Internal Address: | P.O. BOX 6 |
| City: | BOISE |
| State/Country: | IDAHO |
| Postal Code: | 83707 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15624493 |

CORRESPONDENCE DATA

Fax Number: (206)359-7198

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: PERKINS COIE LLP Address Line 1: P.O. BOX 1247

Address Line 2: PATENT PROCUREMENT

Address Line 4: SEATTLE, WASHINGTON 98111-1247

| ATTORNEY DOCKET NUMBER: | 010829-9097.US01 |
|-------------------------|------------------|
| NAME OF SUBMITTER: | JANA BRATTON |
| SIGNATURE: | /Jana Bratton/ |
| DATE SIGNED: | 06/15/2017 |
| | <u> </u> |

Total Attachments: 6

ASSIGNMENT BY INVENTORS

This Assignment is by the following individuals (the "Assignors"):

- Brandon P. Wirz, having a mailing address of 12187 W. Pitts Lane, Kuna, Idaho 83634;
- Jaspreet S. Gandhi, having a mailing address of 1145 E. Rubicon Drive, Boise,
 Idaho 83716
- Christopher J. Gambee, having a mailing address of 3810 Chardes Avenue,
 Caldwell, Idaho 83605; and
- Satish Yeldandi, having a mailing address of 6039 S. Wallflower Place, Boise, Idaho 83716.

| The Assignors invented one | e or more certain inventions (th | e "Invention(s)") described in |
|--------------------------------------|-----------------------------------|--------------------------------|
| an application for Letters Patent of | the United States titled UNDE | R-BUMP METAL |
| STRUCTURES FOR INTERCONN | NECTING SEMICONDUCTOR | DIES OR PACKAGES AND |
| ASSOCIATED SYSTEMS AND MI | ETHODS, naming the Assignor | rs as inventors, and filed on |
| | as U.S. Application No. | (the |
| "Application"). The Assignors auth | norize the Assignee, identified b | pelow, or its representatives |
| to insert the application number ar | nd filing date of the Application | when known. |

Micron Technology, Inc., a corporation of Delaware having its principal place of business at 8000 S. Federal Way, P.O. Box 6, Boise, Idaho 83707-0006 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications

10829-9097.US00/LEGAL27495278.1

directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

10829-9097.US00/LEGAL27495278.1

| Date: 11/14/13 | Banke Wa |
|---|--|
| *** | Brandon P. Wirz |
| United States of America) | |
| State of <u>Idaho</u>) ss.: | |
| County of <u>Qda</u> | |
| On this day of Duem personally came Brandon P. Wirz, to me know executed the foregoing instrument, and acknow | wn to be the individual described in and who |
| Strong Asia | Drave V. Rangel Notary Public |

| Date: 11-13-2013 | Jaspreet S. Gandhi |
|--------------------------------------|--|
| | Jaspieet S. Galidiii |
| United States of America |) |
| State of <u>Idaho</u> | _) ss.: |
| County of <u>ada</u> | _) |
| On this day of | November , 2013, before me |
| | <u>ii,</u> to me known to be the individual described in and who |
| executed the foregoing instrument, a | and acknowledged execution of the same. |
| | Diane V. Rangel |
| V. RAV | Notary Public |

| Date: 11/14/13 | M | 1/2 |
|---|---------------------------|------------------------------------|
| | Ct Ct | nristopher J. Gambee |
| | | |
| United States of America |) | |
| State of <u>Taaho</u> |) ss.: | |
| County of <u>Qda</u> |) | |
| On this 4 The day of _ | November | , <u>20/3</u> , before me |
| | | be the individual described in and |
| who executed the foregoing ins | trument, and acknowledged | d execution of the same. |
| Managarina da | man Diare | V. Rangel |

Notary Public

| Date: 11 (13) 2013 | Saruh.y |
|--|---|
| | Satish Yeldandi |
| United States of America) | |
| State of <u>Idaho</u>) ss.: | |
| County of <u>ada</u>) | |
| On this 13th day of Novem | |
| personally came <u>Satish Yeldandi</u> , to me executed the foregoing instrument, and ac | known to be the individual described in and who knowledged execution of the same. |
| | Diane V. Rangel |
| V R | Notary Public |

10829-9097.US00/LEGAL27495278.1

RECORDED: 06/15/2017