

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Dale W. Collins | 08/18/2010 |
| Joe Lindgren | 08/20/2010 |
| RECEIVING PARTY DATA | |
| Name: | Micron Technology, Inc. |
| Street Address: | 8000 South Federal Way |
| Internal Address: | MS 1-525 |
| City: | Boise |
| State/Country: | IDAHO |
| Postal Code: | 83716 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12860745 |
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| ATTORNEY DOCKET NUMBER: | MI22-4513 |
| NAME OF SUBMITTER: | David G. Latwesen, Ph.D. |
| Total Attachments: 4 source=AS 1#page 1.tif source=AS 1#page 2.tif | |

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**PATENT
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ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

Dale W. Collins
1982 Roanoke
Boise, ID 83712
United States

Joe Lindgren
4470 Shamrock Ave.
Boise, ID 83713
United States

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 Semiconductor Constructions; And Methods For Providing Electrically Conductive Material Within Openings.

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.

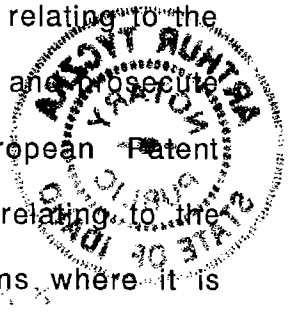
THE PARTIES AGREE AS FOLLOWS:

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.

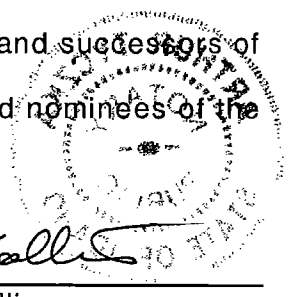
INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, 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: 8/18/2010

Signature: Dale W. Collins
Dale W. Collins

State of Idaho)

County of Ada)

) ss.

On this 18th day of August, 2010, before me, Art Tylica (name and title of Notary Official), personally appeared Dale W. Collins, 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.



Arthur Tyczka
My Commission Expires: 3-15-12

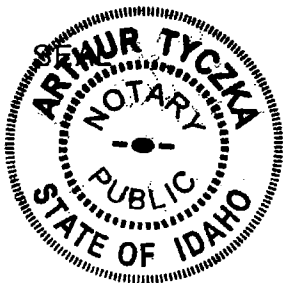
Dated: 8/20/2010

Signature: Joe Lindgren
Joe Lindgren

State of Idaho)

County of Ada) ss.

On this 20th day of August, 2010, before me, Art Tyczka - Notary Public (name and title of Notary Official), personally appeared Joe Lindgren, 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.



Arthur Tyczka
My Commission Expires: 3-15-12