

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>D.V. Nirmal Ramaswamy</td> <td>10/05/2012</td> </tr> <tr> <td>Murali Balakrishnan</td> <td>10/02/2012</td> </tr> <tr> <td>Alessandro Torsi</td> <td>10/02/2012</td> </tr> <tr> <td>Noel Rocklein</td> <td>10/09/2012</td> </tr> </tbody> </table>		Name	Execution Date	D.V. Nirmal Ramaswamy	10/05/2012	Murali Balakrishnan	10/02/2012	Alessandro Torsi	10/02/2012	Noel Rocklein	10/09/2012		
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Micron Technology, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>8000 South Federal Way</td> </tr> <tr> <td>Internal Address:</td> <td>MS 1-525</td> </tr> <tr> <td>City:</td> <td>Boise</td> </tr> <tr> <td>State/Country:</td> <td>IDAHO</td> </tr> <tr> <td>Postal Code:</td> <td>83716</td> </tr> </table>		Name:	Micron Technology, Inc.	Street Address:	8000 South Federal Way	Internal Address:	MS 1-525	City:	Boise	State/Country:	IDAHO	Postal Code:	83716
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CORRESPONDENCE DATA													
<p>Fax Number: 5098383424 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 509-624-4276 Email: docketing@wellsstjohn.com Correspondent Name: Wells St. John P.S. Address Line 1: 601 W. 1st Avenue #1300 Address Line 2: Suite 1300 Address Line 4: Spokane, WASHINGTON 99201</p>													
ATTORNEY DOCKET NUMBER:	MI22-5170												
NAME OF SUBMITTER:	David G Latwesen												

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Total Attachments: 6

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PATENT

REEL: 029134 FRAME: 0237

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

D. V. Nirmal Ramaswamy
2243 Serene Drive
Boise, ID 83706
United States

Murali Balakrishnan
3991 S. Bard Avenue
Boise, ID 83716
United States

Alessandro Torsi
3875 Bard Ave
Boise, ID 83716
United States

Noel Rocklein
5543 E. Bay Trail Ct.
Boise, ID 83716
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 Memory Cells and Methods of Forming Memory Cells.

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: 5th Oct 2012

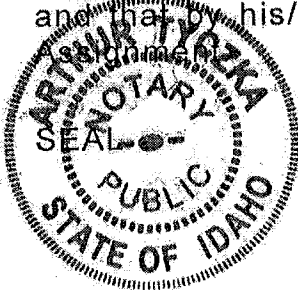
Signature: [Signature]
D. V. Nirmal Ramaswamy

State of Fla

County of Ada

)
) ss.
)

On this 5th day of October, 2012, before me, Art Tyoczka - Patent Asst (name and title of Notary Official), personally appeared D. V. Nirmal Ramaswamy, 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



[Signature]
My Commission Expires March 15, 2018

Dated: 10/2/2012

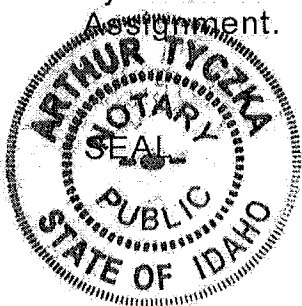
Signature: [Signature]
Murali Balakrishnan

State of Idaho

County of Ada

)
) ss.
)

On this 2nd day of October, 2012, before me, Art Tyoczka - Patent Asst (name and title of Notary Official), personally appeared Murali Balakrishnan, 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.



[Signature]
My Commission Expires: March 15, 2018

Dated: 10/02/2012

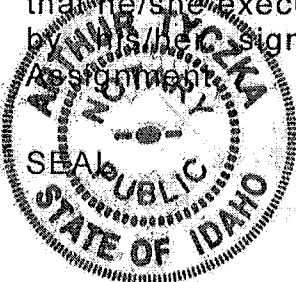
Signature: Alessandro Torsi
Alessandro Torsi

State of Idaho

County of Ada

)
) ss.
)

On this 2nd day of October, 20 12, before me, Art Tydzica - Patent Asst (name and title of Notary Official), personally appeared Alessandro Torsi, 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.



Art Tydzica
My Commission Expires: March 15, 2018

Dated: 10-09-2012

Signature: Noel Rocklein
Noel Rocklein

State of Idaho

County of Ada

)
) ss.
)

On this 9th day of October, 20 12, before me, Art Tydzica - Patent Asst (name and title of Notary Official), personally appeared Noel Rocklein, 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.



Art Tydzica
My Commission Expires: March 15, 2018