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OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE  
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7-21-05



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PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Huy Vo  
Charles Ingalls

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)

Name: Micron Technology, Inc.  
Internal Address: \_\_\_\_\_

Street Address: 8000 S. Federal Way

City: Boise

State: Idaho

Country: U.S.A. Zip: 83707-0006

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) July 18, 2005

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

4. Application or patent number(s):

A. Patent Application No.(s)

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Edward L. Pencoske

Internal Address: \_\_\_\_\_

Street Address: Thorp Reed & Armstrong, LLP

One Oxford Centre, 14th Floor, 301 Grant Street

City: Pittsburgh

State: PA Zip: 15219

Phone Number: 412-394-7789

Fax Number: 412-394-2555

Email Address: epencoske@thorpreed.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 20-0888

Authorized User Name Edward L. Pencoske

9. Signature:

Signature

21 July 2005  
Date

Edward L. Pencoske  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

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PATENT  
REEL: 016801 FRAME: 0868

Attorney's Docket No. DB001168-000

For:  U.S. and/or  Foreign Rights  
For:  U.S. Application or  
 U.S. Provisional Application  
For:  U.S. Patent  
For:  PCT Application  
By:  Inventor(s) or  Present Owner

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

Inventor(s) or person(s) or entity(ies) who own the invention

Huy Vo  
*(type or print name(s) of ASSIGNOR(S))*

6221 S. Snapdragon Place  
Boise, ID 83716  
Address

US  
Citizenship

Charles Ingalls  
*(type or print name(s) of ASSIGNOR(S))*

982 West Pennwood  
Meridian, ID 83642  
Address

US  
Citizenship

*(if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)*

Recorded on \_\_\_\_\_

Reel \_\_\_\_\_  
Frame \_\_\_\_\_

hereby sells, assigns and transfers to

**ASSIGNEE:**

Micron Technology, Inc.  
(type or print name(s) of ASSIGNEE(S))

8000 S. Federal Way  
Address

Boise, ID 83707-0006

\_\_\_\_\_  
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- the entire right, title and interest  
 an undivided \_\_\_\_\_ percent ( \_\_\_\_\_ %) interest for the  
United States and its territorial possession

(check the following box, if foreign rights are also to be assigned)

and in all foreign countries, including all rights to claim priority, in and to  
any and all improvements which are disclosed in the invention entitled:

HIGH SPEED ARRAY PIPELINE ARCHITECTURE

Name of inventor(s) Huy Vo and Charles Ingalls

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a)  U.S. patent application executed on even date herewith  
(b)  U.S. patent application executed on \_\_\_\_\_  
(c)  U.S. provisional application naming the above inventor(s) for the above  
entitled invention.  
 Express mail label no. \_\_\_\_\_  
Mailed: \_\_\_\_\_  
 To comply with 37 CFR 3.21 for recordal of this assignment, I, and  
ASSIGNOR signing below, hereby authorize and request my attorney to  
insert below the filing date and application number when they become  
known.  
(d)  U.S. application no. \_\_\_\_\_  
filed on \_\_\_\_\_  
(e)  International application no. PCT/\_\_\_\_\_/\_\_\_\_\_  
(f)  U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_

- A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g)  and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letter Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, IWe have hereunto set hand and seal this 18<sup>th</sup> day of July 2005.  
Date of Signing

**WARNING:** The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 7/18/05

Henry Chang  
Signature of ASSIGNOR(S)

Date: 7-18-05

Charles L. Payne

Date: \_\_\_\_\_

Date: \_\_\_\_\_

(if ASSIGNOR is a legal entity, complete the following information)

\_\_\_\_\_  
(type or print the name of the above person authorized to sign on behalf of ASSIGNOR)

\_\_\_\_\_  
Title

Note: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

- Notarization or Legalization Page Added.

**NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT**

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution, 35 USC 261.

Details of Country United States of America

And place of signing of assignment 3000 S. Federal Way  
Boise, Id 83716

Before me this 13<sup>th</sup> day of July 2005, personally appeared the above named individuals(s), to me known to be the person(s) who  is  are described in, and who executed the foregoing assignment instrument and acknowledged to me that

- |  |                      |   |
|--|----------------------|---|
| <input type="checkbox"/> he              |                      | <input type="checkbox"/> his              |
| <input type="checkbox"/> she             | executed the same of | <input type="checkbox"/> her              |
| <input checked="" type="checkbox"/> they |                      | <input checked="" type="checkbox"/> their |

own free will for the purpose therein expressed.

Liz Thomas  
Notary Public or Consular Officer of the  
United States of America

