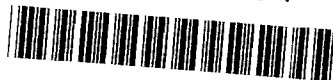


12-29-2004



102912001

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

U.S. PTO  
117012688



Tab settings ⇌⇌⇌

To the honorable Commissioner of Patents and Trademarks: Please attach original documents or copy thereof.

1. Name of conveying party(ies):

Michael K. Dwyer  
Hong Jiang  
Thomas A. Piazza

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: See Attached

2. Name and address of receiving party(ies)

Name: Intel Corporation

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

Street Address: 2200 Mission College Blvd.

City: Santa Clara State: CA Zip: 95052

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: See Attached

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patrick J. Buckley

Internal Address: Buckley, Maschoff & Talwalkar LLC

Street Address: Five Elm Street

City: New Canaan State: CT Zip: 06840

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41). . . . . \$ 40.00

- ☒ Enclosed – Credit Card Authorization Form  
☐ Authorized to be charged to deposit account

8. Deposit account number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Patrick J. Buckley

Name of Person Signing

*Patrick Buckley*

Signature

December 15, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:  
MS Assignment Recordation Services, Director of the US Patent and Trademark Office  
PO Box 1450, Alexandria, VA 22313-1450

12/20/2004 MBELETE1 00000025 11012688

01 FC:8021

40.00 DP

PATENT  
REEL: 016099 FRAME: 0875

**ASSIGNMENT RECORDATION COVER SHEET  
ATTACHMENT FOR ADDITIONAL INFORMATION**

1.	<u>Name of Conveying Parties</u>	<u>Assignment Execution Date</u>
	Michael K. Dwyer	December 7, 2004
	Hong Jiang	December 10, 2004
	Thomas A. Piazza	December 7, 2004

4. If this document is being filed together with a new application, the execution date of the application is:

<u>Inventor</u>	<u>Application Execution Date</u>
Michael K. Dwyer	December 7, 2004
Hong Jiang	December 10, 2004
Thomas A. Piazza	December 7, 2004

## ASSIGNMENT OF RIGHTS, TITLE AND INTEREST IN INVENTION

This is an Assignment of the following rights, title and interest: *(check all that apply)*

- ☒ United States of America rights, title and interest in the invention
- ☒ Foreign rights, title and interest in the invention
- ☒ United States Patent Application Serial No.:

Date of Execution:                      Date of Filing: herewith

- ☐ United States Provisional Patent Application No.:

TITLE OF THE INVENTION:

**HARDWARE STACK HAVING ENTRIES WITH A DATA PORTION AND  
ASSOCIATED COUNTER**

### Inventors (*assignors*)

Name	Address
<b>Michael K. Dwyer</b>	3242 Kensington Drive, El Dorado Hills, CA 95762
<b>Hong Jiang</b>	422 Camille Circle, #12, San Jose, CA 95134
<b>Thomas A. Piazza</b>	9005 Oak Leaf Way, Granite Bay, CA 95746

### Assignee

Name	Address
<b>Intel Corporation</b>	2200 Mission College Blvd., Santa Clara, CA 95052 US

Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");

And, whereas we desire to assign our above-identified rights, title and interest in the Invention to **Intel Corporation**, 2200 Mission College Blvd., Santa Clara, CA 95052 US;

INTEL Docket No.: P19310  
(BMT Ref. No.: 106.280)

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures

12-7-04

Date

Michael K. Dwyer  
Michael K. Dwyer

                      
Date

                      
Hong Jiang

12-02-04

Date

Thomas A. Piazza  
Thomas A. Piazza

INTEL Docket No.: P19310  
(BMT Ref. No.: 106.280)

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;

We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;

And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.

Inventors' Signatures

\_\_\_\_\_  
Date

\_\_\_\_\_  
Michael K. Dwyer

12-10-2004  
Date

  
Hong Jiang

\_\_\_\_\_  
Date

\_\_\_\_\_  
Thomas A. Piazza