

08-26-2004

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1. Name of conveying party(ies)/Execution Date(s):

Michael E. Ryan

8-23-04

Execution Date(s) 8/10/04

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

2. Name and address of receiving party(ies)

Name: Intel Corporation

Internal Address:

Street Address: 2200 Mission College Blvd.

City: Santa Clara

State: CA

Country: US

Zip: 95052

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

4. Application or patent number(s):

☐ This document is being filed together with a new application.  
A. Patent Application No.(s)  
B. Patent No.(s)

10/864,958

Additional numbers attached? ☐ Yes ☒ No

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

Name: Schwabe, Williamson & Wyatt, P.C.

Internal Address:

Street Address: Pacwest Center

Stes. 1600-1900, 1211 SW Fifth Avenue

City: Portland

State: OR Zip: 97204

Phone Number: 503.222.9981

Fax Number: 503.796.2900

Email Address:

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  
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☒ Enclosed  
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9. Signature:

Signature

August 10, 2004

Date

Aloysius AuYeung

Name of Person Signing

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

3

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: 015710 FRAME: 0750

**ASSIGNMENT**

**PATENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Kok-Siang Ng, King Keong Wong, and Michael E. Ryan, hereby sell, assign, and transfer to Intel Corporation a corporation of Delaware, having a principal place of business at 2200 Mission College Blvd., Santa Clara, California 95052, ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled REFERENCE LAYER OPENINGS, and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

**Each Inventor: Please Sign and Date Below:**

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_  
Name: Kok-Siang Ng

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_  
Name: King Keong Wong

8/10, 2004  
Date

Michael E. Ryan  
Name: Michael E. Ryan

**Each Inventor: Please  
also list the date that  
you signed the  
accompanying  
DECLARATION AND  
POWER OF  
ATTORNEY:**

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_, 20\_\_\_\_  
Date

8/10, 2004  
Date