

FORM PTO-1584  
01-10-96:CMG



RE

04-12-1999

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Atty Ref/Docket No. 884.025US1



To the Honorable Commissioner of Patents and Trademarks:

101008233

thereof.

1. Name of conveying party(ies):

2. Name and address of receiving party(ies):

John Wai Cheong Fu, Dean A. Mulla and Gregory S. Mathews

Name: Intel Corporation

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

Street Address: 2625 Walsh Avenue

3. Nature of conveyance:

[X] Assignment

[ ] Merger

[ ] Security Agreement

[ ] Change of Name

[ ] Other

City: Santa Clara State: CA ZIP: 95051

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

Execution Date: February 2, 10, and March 23, 1999

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: \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 09/224,420, filed December 31, 1998

Additional numbers attached? [ ] Yes [X] No

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

6. Total number of applications and patents involved: 1

Name: Edward J. Brooks, III

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

Address: Schwegman, Lundberg, Woessner & Kluth, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402

[X] Enclosed

[ ] Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our  
Deposit account number: 19-0743

04/07/1999 MINNESOTA 00000013 09224420

01 FC:581

40.00 DP

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9. Statement and signature.

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

Edward J. Brooks, III/Reg. No. 40,925

Name of Person Signing

Signature

Date

Total number of pages including cover sheet: 7

OMB No. 0651-0011 (exp. 4/94)

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Commissioner of Patents and Trademarks  
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PATENT  
REEL: 9865 FRAME: 0793

## ASSIGNMENT

WHEREAS, WE, John Wai Cheong Fu, residing at 19186 De Havilland Drive, Saratoga, CA 95070, and Dean A. Mulla, residing at 1129 W. Oak Street, Ft. Collins, CO 80521, and Gregory S. Mathews, residing at 3655 Pruneridge Avenue #97, Santa Clara, CA 95051, made certain new and useful inventions and improvements for which We filed an application for Letters Patent of the United States on December 31, 1998, which application was assigned U.S. patent application serial number 09/224,420, and is entitled A HIGH PERFORMANCE FULLY DUAL-PORTED, PIPELINED CACHE DESIGN.

AND WHEREAS, Intel Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 2625 Walsh Avenue, Santa Clara, CA 95051, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 2 day of 2, 1999.

  
\_\_\_\_\_  
John Wai Cheong Fu

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
Dean A. Mulla

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
Gregory S. Mathews

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WHEREAS, WE, John Wai Cheong Fu, residing at 19186 De Havilland Drive, Saratoga, CA 95070, and Dean A. Mulla, residing at 1129 W. Oak Street, Ft. Collins, CO 80521, and Gregory S. Mathews, residing at 3655 Pruneridge Avenue #97, Santa Clara, CA 95051, made certain new and useful inventions and improvements for which We filed an application for Letters Patent of the United States on December 31, 1998, which application was assigned U.S. patent application serial number 09/224,420, and is entitled A HIGH PERFORMANCE FULLY DUAL-PORTED, PIPELINED CACHE DESIGN.

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

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\_\_\_\_\_  
John Wai Cheong Fu

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
Dean A. Mulla

IN TESTIMONY WHEREOF, I have hereunto set my hand this 10<sup>th</sup> day of February, 1999.

Gregory S. Mathews  
\_\_\_\_\_  
Gregory S. Mathews

## ASSIGNMENT

WHEREAS, WE, John Wai Cheong Fu, residing at 19186 De Havilland Drive, Saratoga,  
CA 95070, and Dean A. Mulla, residing at 985 Hibiscus Lane, San Jose, CA 95117 *DM*  
~~1129 W. Oak Street, Ft. Collins, CO 80521~~, and  
Gregory S. Mathews, residing at 3655 Pruneridge Avenue #97, Santa Clara, CA 95051, made  
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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable  
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and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors  
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improvements disclosed in the aforesaid application, and in and to the said application, all divisions,  
continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all  
reissues or extensions of such patents, and in and to any and all applications which have been or shall  
be filed in any foreign countries for Letters Patent on the said inventions and improvements,  
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entire right, title and interest in and to the same, for the use of the said Assignee, its successors and  
assigns.

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IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
John Wai Cheong Fu

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23<sup>rd</sup> day of March, 1999.

Dean A. Mulla  
\_\_\_\_\_  
Dean A. Mulla

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 1999.

\_\_\_\_\_  
Gregory S. Mathews