

TO THE ASSISTANT COMMISSIONER

SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENT(S) OF WHICH THEREOF.

102328938

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Hemant G. ROTITHOR signed December 18, 2002

3. Donald W. McCauley signed December 18, 2002

5.

7.

2. Randy B. OSBORNE signed December 16, 2002

4.

6.

8.

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Intel Corporation

ADDRESS: 2200 Mission College Boulevard, Santa Clara, California 95054

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)☒ ASSIGNMENT OF☒ WHOLE☐ PART INTEREST☐ ORIGINAL☒ FACSIMILE/PHOTOCOPY☐ CHANGE OF NAME☐ VERIFIED TRANSLATION☐ SECURITY ☐ MERGER☐ OTHER:EXEC. DATE: December 16, 2002 and  
December 18, 2002EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND  
ASSIGNMENT DIFFER SEE ATTY!) December 16, 2002 and December 18, 20024.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NOA. PAT. APP. NO.(S)  
series code/serial no

M#

1<sup>st</sup> INVENTOR  
if not in item 1

B. PATENT NO(S)

M#

1<sup>st</sup> INVENTOR  
if not in item 1

Not Assigned

0275057

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP

Intellectual Property Group

725 South Figueroa Street, Suite 2800 Los Angeles, CA 90017-  
5406

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE DUE: (Code 581)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 0275057

P14893

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT  
NUMBER: 16-1805

UNDER ORDER NO

081674

0275057

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. 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.10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

5

Signature

Attorney: Roger R. Wise

Reg. No. 31204

Date: December 19, 2002

Atty/Sec: RRW/JES

TEL: (213) 488-7584

FAX: (213) 629-1033

FILE WITH PTO RETURN RECEIPT (PAT-103A)

01/03/2003 LNUJELLER 00000327 10325795

01 FC:8021

40.00 DP

Please return signed/recorded to:  
 Pillsbury Winthrop LLP  
 Intellectual Property Group  
 725 South Figueroa Avenue, Suite 2800  
 Los Angeles, CA 90017-5406

Atty. Dkt. No.	PW 275057	P14893
	Attorney Ref.	Client Ref.

**ASSIGNMENT**  
**OF U.S. ORIGIN PATENT APPLICATION**  
**(to Corporation)**  
**(or Limited Partnership)**

WHEREAS, the undersigned, to wit:

Hernant G. ROTITHOR, Randy B. OSBORNE and Donald W. McCAULEY

(hereinafter ASSIGNOR), have made an invention known as Dkt. PW 275057

and entitled: High Performance Memory Device-State Aware Chipset Prefetcher

for which an application for Letters Patent of the United States

☒ was executed even date herewith and is about to be filed in the United States Patent and Trademark Office;  
☐ was filed on \_\_\_\_\_, Appln. No. \_\_\_\_\_;

AND WHEREAS **Intel Corporation** (hereinafter ASSIGNEE), a corporation duly organized and existing under the laws of the State of **Delaware** and having its principal office and place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, desires to acquire an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, 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 **High Performance Memory Device-State Aware Chipset Prefetcher** 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.

**NOTE:** The undersigned hereby authorizes PILLSBURY WINTHROP LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

Executed on the date(s) below indicated.

Each Inventor: Please Sign and Date Below:

12-18 - 2002  
Date

Hemant G. Rottthor  
Name: Hemant G. ROTTTHOR

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

12-18 - 2002  
Date

Each Inventor: Please Sign and Date Below:

December 16, 2002  
Date

Randy B. Osborne  
Name: Randy B. OSBORNE

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

December 16, 2002  
Date

Each Inventor: Please Sign and Date Below:

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

\_\_\_\_\_  
Name: Donald W. McCauley

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

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

Please return signed/recorded to:

Pillsbury Winthrop LLP  
Intellectual Property Group  
725 South Figueroa Avenue, Suite 2800  
Los Angeles, CA 90017-5406

Atty. Dkt. No.	PW 275057	P14893
	Attorney Ref.	Client Ref.

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**(to Corporation)**  
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WHEREAS, the undersigned, to wit:

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PW 275057

and entitled: High Performance Memory Device-State Aware Chipset Prefetcher

for which an application for Letters Patent of the United States

☒ was executed even date herewith and is about to be filed in the United States Patent and Trademark Office;

☐ was filed on \_\_\_\_\_, Appln. No. \_\_\_\_\_ / \_\_\_\_\_;

AND WHEREAS Intel Corporation (hereinafter ASSIGNEE), a corporation duly organized and existing under the laws of the State of Delaware and having its principal office and place of business at 2200 Mission College Boulevard, Santa Clara, CA 95054, desires to acquire an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, 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 **High Performance Memory Device-State Aware Chipset Prefetcher** 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.

**NOTE:** The undersigned hereby authorizes **PILLSBURY WINTHROP LLP** of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

Executed on the date(s) below indicated.

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

\_\_\_\_\_, 20\_\_\_\_  
Date Name: Hemant G. ROTTHOR

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

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

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

\_\_\_\_\_, 20\_\_\_\_  
Date Name: Randy B. OSBORNE

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

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

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

Dec 18, 2002 Donald W. McCauley  
Date Name: Donald W. McCAULEY

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

DEC 18, 2002  
Date