



101115185

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
DENNIS M. O'CONNOR **JOHN J. KIRBY**
MARK P. CHUANG
THOMAS S. MARTIS
MARK L. GORDON

Additional names(s) of conveying party(ies) Yes No

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

Name: INTEL CORPORATION

Address: 2200 MISSION COLLEGE BLVD.

City: SANTA CLARA State/Prov.: CA

Country: U.S.A. ZIP: 95052

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

3. Nature of conveyance: 5-7-99

Assignment Merger

Security Agreement Change of Name

Other

Execution Date: December 17, 29 and 30, 1998

4. Application number(s) or registration numbers(s):

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

Patent Application No.	Filing date	B. Patent No.(s)
<u>09/223,516</u>	<u>12/30/98</u>	

Additional numbers Yes No

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

Name: Timothy N. Trop

Registration No. 28,994

Address: Trop, Pruner, Hu & Miles, P.C.

8554 Katy Freeway, Suite 100

City: Houston State/Prov.: TX

Country: U.S.A. ZIP: 77024

6. Total number of applications and patents involved: 1

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

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number: 20-1504 40E


NO SPEC

Fee

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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.

Timothy N. Trop  5/13/99

Name of Person Signing Signature Date

4

Total number of pages including cover sheet, attachments, and

01-19-1999

Docket No.: INTL-0134-US (P6499)

FORM PTO-1595 (Modified)
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
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P08A/REV02



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Dennis M. O'Connor **John J. Kirby**
Mark P. Chuang
Thomas S. Martis
Mark L. Gordon

Additional names(s) of conveying party(ies) Yes No

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

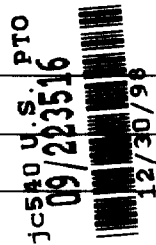
Name: Intel Corporation

Address: 2200 Mission College Blvd.

City: Houston State/Prov.: TX

Country: United States ZIP: 95052

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



3. Nature of conveyance: MRU 12-30-98

Assignment Merger

Security Agreement Change of Name

Other _____

Execution Date: December 17, 29, and 30, 1998

4. Application number(s) or registration numbers(s):

If this document is being filed together with a new application, the execution date of the application is: December 30, 1998

Patent Application No.	Filing date	B. Patent No.(s)

Additional numbers Yes No

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

Name: Timothy N. Trop

Registration No. 28,994

Address: Trop, Pruner, Hu & Miles, P.C.
8554 Katy Freeway, Suite 100
01/15/1999 DNGUYEN 00000255 09223516
01 FC:581 40.00 OP

City: Houston State/Prov.: TX

Country: United States ZIP: 77024

6. Total number of applications and patents involved: 1

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

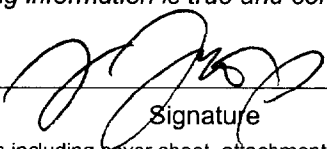
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8. Deposit account number:
20-1504 (INTL-0134) (P6499)

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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.

Timothy N. Trop  12/30/98

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and 4

PATENT

Attorney Docket No.: INTL 0134-US
(P6499)

ASSIGNMENT

WHEREAS, We, **DENNIS M. O'CONNOR, MARK P. CHUANG, THOMAS S. MARTIS, MARK L. GORDON and JOHN J. KIRBY**, are joint inventors of "**TIME SHIFTING BY SIMULTANEOUSLY RECORDING AND PLAYING A DATA STREAM**," application for United States Letters Patent which is executed of even date herewith; and

WHEREAS, INTEL CORPORATION, a corporation created and existing under and by virtue of the laws of the State of Delaware, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to INTEL CORPORATION, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by INTEL CORPORATION for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to INTEL CORPORATION, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to INTEL CORPORATION, its successors, assigns, or other legal representatives and that if INTEL CORPORATION, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

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DEC-29-98 TUE 11:09 AM TROP, PRUNER, HU & MILES FAX NO. 7134688883

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And we do further covenant and agree that we will, at any time upon request, communicate to INTEL CORPORATION, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

EXECUTED THIS 27th day of December, 19 98.


Name: DENNIS M. O'CONNOR

EXECUTED THIS 27th day of December, 19 98.


Name: MARK P. CHUANG

EXECUTED THIS 17th day of December, 19 98.


Name: THOMAS S. MARTIS

EXECUTED THIS 17th day of Dec, 1998



Name: MARK L. GORDON

EXECUTED THIS 30th day of December, 1998



Name: JOHN J. KIRBY

- 3 -

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TOTAL P. 08