

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp.5/31/2002)
P08A/REV03

02-10-2003



SHEET

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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):

ASHOKE RAVI,
KRISHNAMURTHY SOUMYANATH, and
GAURAB BANERJEE

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

Name: INTEL CORPORATION

Address: 2200 MISSION COLLEGE BLVD.

Additional names(s) of conveying party(ies)

Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

City: SANTA CLARA State/Prov.: CA

Country: U.S.A. ZIP: 95054-1549

Execution Date: 01-22-2003, 01-22-2003, 01-22-2003

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

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

If this document is being filed together with a new application, the execution date of the application is: December 19, 2002

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: 8554 KATY FREEWAY, SUITE 100

02/10/2003 ECDOPER 00000062 10324686

01 FC:8021 40.00 DP

City: HOUSTON State/Prov.: TX

Country: U.S.A. ZIP: 77024-1841

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

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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.

Sanjeev K. Singh under 37 CFR§10.9(b)

January 28, 2003

Name of Person Signing

Signature

4

Date

Total number of pages including cover sheet, attachments, and

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 013726 FRAME: 0607

ASSIGNMENT

WHEREAS, We, ASHOKE RAVI, KRISHNAMURTHY SOUMYANATH, and GAURAB BANERJEE are joint inventors of ADAPTIVELY EXTENDING TUNABLE RANGE OF FREQUENCY IN A CLOSED LOOP, application for United States Letters Patent Serial No. 10/324,686, filed December 19, 2002; 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.

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 22nd day of JANUARY, 2003.



Name: Ashoke Ravi

EXECUTED THIS 22nd day of January, 2003.



Name: Krishnamurthy Soumyanath

EXECUTED THIS 22nd day of January, 2003.



Name: Gaurab Banerjee

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	ASHOKE RAVI, KRISHNAMURTHY SOUMYANATH AND GAURAB BANERJEE	§ § § § § § § § § § §	Group Art Unit:
Serial No.:	10/324,686		Examiner:
Filed:	December 19, 2002		
For:	ADAPTIVELY EXTENDING TUNABLE RANGE OF FREQUENCY IN A CLOSED LOOP		Atty. Dkt. No.: ITL.0837US (P13194)

Commissioner for Patents
Washington, D.C. 20231

**ASSENT OF ASSIGNEE TO ADDITION OF INVENTOR
AND STATEMENT UNDER 37 CFR §3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The Assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

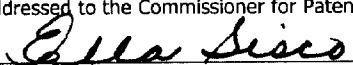
IDENTIFICATION OF ASSIGNEE

2. INTEL CORPORATION, a Delaware corporation
(Name of Assignee)
- 2200 Mission College Blvd., Santa Clara, CA 95052
(Address)

PERSON AUTHORIZED TO SIGN

3. David Simon
(Name of Person Authorized to Sign on Behalf of Assignee)
- Director of Patents
(Title of Person Authorized to Sign)

I, the person signing below, state that I am empowered to sign this statement on behalf of Assignee.

Date of Deposit:	<u>JANUARY 28, 2003</u>
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as First Class Mail with sufficient postage on the date indicated above and is addressed to the Commissioner for Patents, Washington, D.C. 20231.	
	
Ella Sisco	

BASIS OF ASSIGNEE'S INTEREST

Ownership by the Assignee is established as follows:

Assignment: Filed on December 19, 2002

COPIES OF DOCUMENTS IN CHAIN OF TITLE

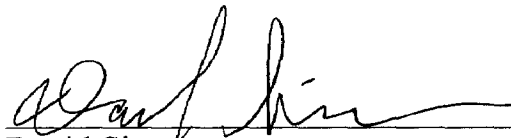
A copy of the Assignment is attached.

ASSENT OF ASSIGNEE TO ADDITION OF INVENTORS

Assignee hereby assents to the correction of inventorship filed herewith.

INTEL CORPORATION

Date: Jan 27, 2003



David Simon
Director of Patents

Intel Corporation
2200 Mission College Blvd.
P.O. Box 58119
Santa Clara, CA 95052-8119
(408) 765-8080
www.intel.com



January 6, 2003

Re: Delegation of Signature Authority-Powers of Attorney

To Whom It May Concern:

I, F. Thomas Dunlap, Jr., Senior Vice President General Counsel and Secretary of Intel Corporation, hereby delegate to sign Powers of Attorney and other patent-related documents to David Simon. Mr. Simon is the Director of Patents for Intel Corporation.

Sincerely,

A handwritten signature in black ink that reads "F. Thomas Dunlap, Jr." The signature is written in a cursive style with a large, stylized "D" at the end.

F. Thomas Dunlap, Jr.
Intel Corporation

RECORDATION FORM COVER SHEET

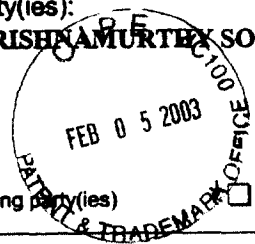
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Address: 2200 MISSION COLLEGE BLVD.

City: SANTA CLARA State/Prov.: CA

Country: U.S.A. ZIP: 95054-1549

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 12-16-2002, 12-16-2002, respectively

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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: 8554 KATY FREEWAY, SUITE 100

City: HOUSTON State/Prov.: TX

Country: U.S.A. ZIP: 77024-1841

6. Total number of applications and patents involved: **1**

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

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Authorized to be charged to deposit account

8. Deposit account number:

20-1504

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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.

Sanjeev K. Singh under 37 CFR§10.9(b)

Name of Person Signing

Signature

December 19, 2002

Date

4

Total number of pages including cover sheet, attachments, and

ASSIGNMENT

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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.

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 16 day of December, 2002.



Name: Ashoke Ravi

EXECUTED THIS 16 day of December, 2002.



Name: Krishnamurthy Soumyanath

ITL0837US (P13194)

TROP, PRUNER & HU, P.C.

14238

4008 Commissioner of Patents
12/19/02 Assignment Recordation Filing
Fee (ITL.0837US)

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TROP, PRUNER & HU, P.C.
8554 KATY FREEWAY, SUITE 100
HOUSTON, TX 77024
(713) 468-8880

SOUTHWEST BANK
P.O. BOX 27459
HOUSTON, TX 77227-7459
35-1125/1130

14238

12/19/02

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Washington DC 20231



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FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp 5/31/2002)
P08A/REV03

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City: **SANTA CLARA** State/Prov.: **CA**
Country: **U.S.A.** ZIP: **95054-1549**

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Additional numbers Yes No

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Registration No. **28,994**
Address: **8554 KATY FREEWAY, SUITE 100**

City: **HOUSTON** State/Prov.: **TX**
Country: **U.S.A.** ZIP: **77024-1841**

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Sanjeev K. Singh under 37 CFR§10.9(b) **January 28, 2003**

Name of Person Signing Signature Date

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

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