

Form PTO-1595 (Rev. 06/04)
 OMB No. 0651-0027 (exp. 6/30/2005)

U.S. DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):
 Sumeet Sandhu - October 15, 2003

Execution Date(s) October 15, 2003

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

2. Name and address of receiving party(ies)
 Name: INTEL CORPORATION
 Internal Address: _____

 Street Address: 2200 Mission College Blvd.

 City: Santa Clara
 State: California
 Country: USA Zip: 95052
 Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

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

4. Application or patent number(s): This document is being filed together with a new application.

A. Patent Application No.(s)
 10/689,151

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:
 Name: INTEL CORPORATION
 Internal Address: M/S SC4-202

 Street Address: PO Box 5326

 City: Santa Clara
 State: California Zip: 95056-5326
 Phone Number: _____
 Fax Number: _____
 Email Address: _____

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

Authorized to be charged by credit card
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
 Expiration Date _____

b. Deposit Account Number 50-0221 - INTEL CORP
 Authorized User Name Lanny L. Parker

9. Signature: Lanny L. Parker May 10, 2005

 Signature Date

LANNY L. PARKER, Reg. No. 44,281 Total number of pages including cover sheet, attachments, and documents: 3
 Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (703) 306-6996, or mailed to:
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 500221 10689151

Filed: 10/20/2003
10/689,151

Attorney Docket #: P17470

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned inventor(s):

Sumeet Sandhu

hereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Boulevard, Santa Clara, California, 95052 USA ("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 inventions and improvements that are disclosed in the application for the United States patent entitled:

ADAPTIVE SIGNALING IN MULTIPLE ANTENNA SYSTEMS

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below.

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority resulting from the filing of said United States applications:

agree that said Assignee may apply for and receive a patent or patents for said inventions and 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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and 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 to each inventor:
On the line below, please
enter the date on which you
signed the accompanying
"Declaration and Power of
Attorney":

| | | |
|--|-----------------------------------|--|
| <u><i>Sumeet Sandhu</i></u> Sumeet Sandhu | <u>10/15/03</u> (Today's Date) | <u>10/15/03</u> (Date of Declaration) |
| _____ | _____ (Today's Date) | _____ (Date of Declaration) |
| _____ | _____ (Today's Date) | _____ (Date of Declaration) |
| _____ | _____ (Today's Date) | _____ (Date of Declaration) |