U.S. Department of Commerce Patent and Trademark Office **PATENT** 

## **DRDATION FORM COVER SHEET** PATENTS ONLY

101687945

Attorney Docket No.: 010067

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).	
Submission Type	Conveyance Type
⊠New	
Resubmission (Non-Recordation)	Change of Name
Document ID No.	☐License ⊃
Correction of PTO Error	_Merger
Reel No. Frame No.	Security Agreement
Corrective Document	Other:
Reel No. Frame No.	
Conveying Party(ies) Mark	f additional names are attached
NAME	EXECUTION DATE
	Month, Day, Year (MMDDYYYY)
1. Nagabhushana T. Sindhushayana	04/06/2001
2. Jack K. Wolf	04/06/2001
3.	09835903
4.	27023 123
Receiving Party Mark	if additional names are attached
Name: QUALCOMM Incorporated	
A Delaware Corporation	
Address (Street number and name): 5775 Morehouse Drive	
Address (City, State, Zip Code): San Diego, California, 92	2121-1714
Correspondent Name and Address	
Name: QUALCOMM Incorporated	<b>Telephone Number:</b> (858) 651-1179
Attn: Sarah Kirkpatrick, Manager, Intellectual Property	Administration Facsimile: (858) 658-2502
Address: 5775 Morehouse Drive	
Address: San Diego, California 92121-1714	
Pages (Enter the total number of pages of the attached conveyance document including any attachments)	
Total number of pages: 3	
Application Number(s	or Patent Number(s)
If this document is being filed together with a new application	
Patent Application Number(s):	
	Patent Number(s):
1.	1.
1. 2.	1. 2.
1. 2. 3.	1. 2. 3.
1. 2. 3. 4.	1. 2.
1. 2. 3. 4. Patent Cooperation Treaty (PCT)	1. 2. 3.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned)	1. 2. 3. 4.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/	1. 2. 3. 4. 3. PCT/
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/	1. 2. 3. 4.  3. PCT/ 4. PCT/
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involved)	1. 2. 3. 4.  3. PCT/ 4. PCT/
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1	1. 2. 3. 4.  3. PCT/ 4. PCT/ blved)
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount  Fee Amount for Properties I	1. 2. 3. 4.  3. PCT/ 4. PCT/ blved)  isted (37 CFR 3.41): \$40.00
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount  Fee Amount for Properties I	1. 2. 3. 4.  3. PCT/ 4. PCT/ blved)  isted (37 CFR 3.41): \$40.00
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted in the properties of Properties:  Total number of properties:  Fee Amount  Method of Payment: □ Enclosed □ Deposit Account (Enter for payment by deposit account or if additional fees car	1. 2. 3. 4.  3. PCT/ 4. PCT/ blved)
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties inverted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees care for processing)	1. 2. 3. PCT/ 4. PCT/ olved)  iisted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  iisted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account or charge acc	1. 2. 3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees:  Yes  No
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account and Signature	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  \Bo No
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account and Signature	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted in the properties of Properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account or	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account of the best of my knowledge and belief, the foregoing inforce to the original document. Charges to deposit account a	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted in the properties of Properties:  Total number of properties:  Fee Amount Fee Amount for Properties I  Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account or the best of my knowledge and belief, the foregoing inforce opy of the original document. Charges to deposit account account account account account account of the properties in the propert	1. 2. 3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account of the best of my knowledge and belief, the foregoing inforce to the original document. Charges to deposit account a Date: 04/16/2001  Name: Pavel Kalousek, Reg. No. 44,178	1. 2. 3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/ Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account or the best of my knowledge and belief, the foregoing inforce opy of the original document. Charges to deposit account	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  \Bo No
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/  Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account of the best of my knowledge and belief, the foregoing inforcopy of the original document. Charges to deposit account account account Pavel Kalousek, Reg. No. 44,178 (858) 658-3072	1. 2. 3. 4.  3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes No  rmation is true and correct and any attached copy is a true re authorized, as indicated herein.  Signature:
1. 2. 3. 4.  Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/  Number of Properties (Enter the total number of properties involuted number of properties: 1  Fee Amount Fee Amount for Properties I Method of Payment: □ Enclosed ☑ Deposit Account (Enter for payment by deposit account or if additional fees car for fee processing)  Deposit Account Number: Authorization to charge account of the best of my knowledge and belief, the foregoing inforcopy of the original document. Charges to deposit account account account Pavel Kalousek, Reg. No. 44,178 (858) 658-3072	1. 2. 3. PCT/ 4. PCT/ olved)  isted (37 CFR 3.41): \$40.00  be charged to the account. A duplicate of this sheet is enclosed  17-0026 ditional fees: Yes  No  rmation is true and correct and any attached copy is a true anythorized, as indicated herein.

04/26/2001 AAHMED1 00000117 170026 09835903 40.00 CH

01 FC:581

(TRANSASSIGN.VER1.6-1/17/2001)

**REEL: 011708 FRAME: 0254** 

## **ASSIGNMENT**

## TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand receipt of which is hereby acknowledged, be it known that we paid. NAGABHUSHANA T. SINDHUSHAYANA, a citizen of India having a place of residence at 7794 Roan Road, San Diego, California 92129; and JACK K. WOLF, a citizen of the United States of America having a place of residence at 8529 Prestwick Drive, La Jolla, California 92037, have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to a METHOD AND AN APPARATUS FOR USE OF CODES IN MULTICAST TRANSMISSION by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on even date herewith, and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

1

[pa010067 assign]

Done at San Diego, California this 6 day of APRIL, 2001.
J.S. NagaBhushana
NAGABHUSHANA/T. SINDHUSHAYANA
Done at San Diego, California thisday of <u>ハpぇ (</u> , 2001.
Soch Kirl Wolf
JACK K. WOLF

2

**RECORDED: 04/16/2001** 

[pa010067 assign]

PATENT REEL: 011708 FRAME: 0256