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Customer No.: 23696
Attorney Docket No.: 030168U2

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

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Conveying Party(ies) NAME 1. NAGA BHUSHAN 2. JUN MA 3. MINGXI FAN 4.	<input type="checkbox"/> Mark if additional names are attached EXECUTION DATE Month, Day, Year (MMDDYYYY) 11/24/2003 11/24/2003 11/24/2003
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Receiving Party Name: QUALCOMM Incorporated A Delaware Corporation Address (Street number and name): 5775 Morehouse Drive Address (City, State, Zip Code): San Diego, California, 92121-1714	<input type="checkbox"/> Mark if additional names are attached
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Correspondent Name and Address Name: QUALCOMM Incorporated Attn: Patent Department Address: 5775 Morehouse Drive Address: San Diego, California 92121-1714	Telephone Number: (858) 651-4404 Facsimile: (858) 658-2502
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Pages (Enter the total number of pages including the Recordation Sheet)
 Total number of pages: 4

Application Number(s) or Patent Number(s)
 If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application Number(s): 1. 10/620,023 filed 07/14/2003 2. _____ 3. 4.	Patent Number(s): 1. 2. 3. 4.
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Patent Cooperation Treaty (PCT) (Enter <u>only</u> if a U.S. Application Number has not been assigned) 1. PCT/ 2. PCT/	3. PCT/ 4. PCT/
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Number of Properties (Enter the total number of properties involved)
 Total number of properties: 1

Fee Amount Method of Payment: <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account. A duplicate of this sheet is enclosed for fee processing) Deposit Account Number: 17-0026 Authorization to charge additional fees: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Fee Amount for Properties Listed (37 CFR 3.41): \$40.00
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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. Charges to deposit account are authorized, as indicated herein.

Date: November 25, 2003
 Name: Sandra L. Godsey, Reg. No. 42,589
 Signature: Kent Baker

12/01/2003 BBYRNE 00000101 170026 10620023 01 FC:8021 40.00 DA	FOR OFFICE USE ONLY
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OPR/FINANCE

ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that we, **NAGA BHUSHAN**, a citizen of the United States of America having a place of residence at **7794 ROAN ROAD, SAN DIEGO, CALIFORNIA 92129**; **JUN MA**, a citizen of China having a place of residence at **10980 IVY HILL DRIVE, UNIT 6, SAN DIEGO, CALIFORNIA 92131**; and **MINGXI FAN**, a citizen of the United States of America having a place of residence at **4635 TORREY CIRCLE, Apt. N205 , SAN DIEGO, CALIFORNIA 92130**; 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 **REVERSE RATE INDICATOR DETECTION** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **07/14/2003**, and assigned Application Serial No. **10/620,023**, including, without limitation, all provisional patent applications, including Provisional Application Nos. **60/319,888**, filed **01/21/2003**; **60/319,889**, filed **01/21/2003**; and **10/140,087**, filed **05/06/2002**; 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.

Done at San Diego, California this 24TH day of Nov, 2003.

L. S. Naga Bhushana
NAGA BHUSHAN

Done at San Diego, California this 24th day of Nov., 2003.

JUN MA
JUN MA

Done at San Diego, California this 29th day of November, 2003.

MINGXI FAN
MINGXI FAN