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Customer No.: 23696
Attorney Docket No.: 040082

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- ☒ Assignment
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9-16-04

22390 U.S. PTO

10/944155



091604

Conveying Party(ies)

NAME

☐ Mark if additional names are attached

1. GREGORY G. ROSE
2. MICHAEL PADDON
3. PHILIP M. HAWKES
4. JAMES F. SEMPLE

EXECUTION DATE

Month, Day, Year (MMDDYYYY)

9/6/2004
9/6/2004
9/6/2004
9/9/2004

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, 92121-1714

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

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: 9/16/2004

Patent Application Number(s):

- 1.
- 2.
- 3.
- 4.

Patent Number(s):

- 1.
- 2.
- 3.
- 4.

Patent Cooperation Treaty (PCT)(Enter only if a U.S. Application Number has not been assigned)

1. PCT/
2. PCT/

3. PCT/
4. PCT/

Number of Properties (Enter the total number of properties involved)

Total number of properties: 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$40.00

Method of Payment: ☐ Enclosed ☒ Deposit Account

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Deposit Account Number: 17-0026

Authorization to charge additional fees: ☒ Yes ☐ No**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: 9/16/2004

Name: Sandra L. Godsey, Reg. No. 42,589
(858) 651-4517

Signature:

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Page 1 of 1

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

PATENT
REEL: 015821 FRAME: 0277

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 **Gregory G. Rose**, a citizen of Australia having a place of residence at 40 Archer Street, Concord, NSW 2137, Australia; **Michael Paddon**, a citizen of Australia having a place of residence at 31 Armine Way, Kellyville, NSW 2155, Australia; **Philip M. Hawkes**, a citizen of Australia having a place of residence at Unit 2,6-8 Belmore St., Burwood, NSW 2134, Australia; and **James F. Semple**, a citizen of Canada having a place of residence at 7 Queensgate Place, Flat 4, London, SW7 5NU, UK; 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:

METHOD AND APPARATUS FOR AUTHENTICATION IN WIRELESS COMMUNICATIONS

by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office herewith, including, without limitation, all provisional patent applications, Provisional Application No. 60/518,041 entitled "Authentication and Key Separation for Securing GSM Systems" filed November 7, 2003, 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 Concord, Australia this 6th day of September, 2004.



Gregory G. Rose

Done at Kellyville, Australia this 6th day of Sept, 2004.



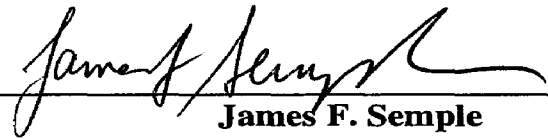
Michael Paddon

Done at Burwood, Australia this 6th day of September, 2004.



Philip M. Hawkes

Done at London, UK this 9 day of Sept, 2004.


James F. Semple