

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 I,

1. **Arthur J. Neufeld**, a citizen of Canada, having a place of residence at 12161 Middlebrook Square, San Diego, Ca 92128;
2. **Ehren J.D. Van Melle**, a citizen of Canada, having a place of residence at 9413 Compass Point Drive South, San Diego, Ca 92126; and
3. **Eric Handojo**, a citizen of USA, having a place of residence at 5128 Frost Ave., Carlsbad, CA 92008;

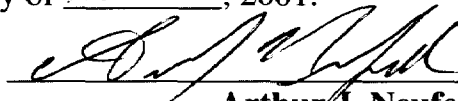
have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto **QUALCOMM Incorporated**, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to a **METHOD AND APPARATUS FOR GENERATING PN SEQUENCES AT ARBITRARY PHASES** by me co-devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **July 31, 2001**, and assigned Serial No. **09/919,685**, 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 I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me 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

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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.

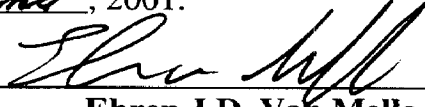
Done at San Diego, California this 12th day of November, 2001.



Arthur J. Neufeld

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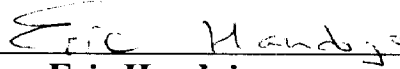
Done at San Diego, California this 5th day of November, 2001.



Ehren J.D. Van Melle

ASSIGNMENT

Done at San Diego, California this 29 day of November, 2001.



Eric Handojo