FORM PTO-1619A/B	00 00 0003	3	U.S. Department of Commerce Patent and Trademark Office
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	NAME		EXECUTION DATE
			Month, Day, Year (MMDDYYYY)
June Namgoong			08/13/2003
Jun Ma			08/13/2003
Mingxi Fan			08/13/2003
Naga Bhushan			08/13/2003
Peter Black			08/14/2003
Receiving Party(ies) Mark if add	itional names are attached		0871472003 0PR/FINANC
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A Delaware Corpor			F 2
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Address: San Diego, Californ			<u> </u>
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(TRANSASSIGN.VER1.6-2/14/2001)

PATENT

REEL: 014426 FRAME: 0232

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,

- June Namgoong, a citizen of South Korea, having a place of residence at 10153 Camino Ruiz, #19, San Diego, CA 92126;
- 2. **Jun Ma**, a citizen of The People's Republic of China, having a place of residence at 10980 Ivy Hill Drive, #6, San Diego, CA 92131;
- 3. **Mingxi Fan**, a citizen of The United States of America, having a place of residence at 4635 Torrey Circle, Apt. N205, San Diego, CA 92130;
- 4. Naga Bhushan, a citizen of The United States of America, having a place of residence at 7794 Roan Road, San Diego, CA 92129; and
- 5. **Peter Black,** a citizen of The United States of America, having a place of residence at, 2961 First Avenue, San Diego, CA 92103;

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 NEAR-OPTIMAL SCALING OF LIKELIHOOD RATIO (LLR) COMPUTATION IN TURBO DECODING FOR HYBRID AUTOMATIC REPEAT REQUEST (ARQ) by me co-devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on June 06, 2003, and was assigned Serial Number 10/456,148, 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

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ASSIGNMENT

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 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 13th day of Auc., 2003.

June Namgoong

Done at San Diego, California this 13th day of ______, 2003

Jun Ma

Done at San Diego, California this 11th day of

ay of August, 2003

Mingxi Fan

PATENT REEL: 014426 FRAME: 0234

ASSIGNMENT

Done at San Diego, California this 13 Th day of AUG, 2003.

Naga Bhushan

Done at San Diego, California this 19 Hday of 1, 2003.

RECORDED: 08/20/2003

Peter Black

PATENT REEL: 014426 FRAME: 0235