

FORM PTO-1619A/B

U.S. Department of Commerce  
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Attorney Docket No.: 050055

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

<b>Submission Type</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation) Document ID No. <input type="checkbox"/> Correction of PTO Error Reel No.                      Frame No. <input type="checkbox"/> Corrective Document Reel No.                      Frame No.	<b>Conveyance Type</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> License <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other: _____
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<b>Conveying Party(ies)</b> NAME  1. James A. Hutchison 2. Ling Hang 3. Robbin D. Hughes 4.	<input type="checkbox"/> Mark if additional names are attached  <b>EXECUTION DATE</b> Month, Day, Year (MMDDYYYY) 05/11/2006 05/08/2006 05/08/2006
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<b>Receiving Party</b> 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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<b>Correspondent Name and Address</b> Name: QUALCOMM Incorporated Attn: Patent Department Address: 5775 Morehouse Drive Address: San Diego, California 92121-1714	<b>Telephone Number:</b> (858) 658-5787 <b>Facsimile:</b> (858) 658-2502
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Pages (Enter the total number of pages of the attached conveyance document including any attachments)  
 Total number of pages: 2

<b>Application Number(s) or Patent Number(s)</b> If this document is being filed together with a new application, the execution date of the application is: _____	
<b>Patent Application Number(s):</b> 1. 11/327,826 2. 3. 4.	<b>Patent Number(s):</b> 1. 2. 3. 4.

<b>Patent Cooperation Treaty (PCT)</b> (Enter <u>only</u> 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

<b>Fee Amount</b> 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)	<b>Fee Amount for Properties Listed (37 CFR 3.41): \$40</b>  Deposit Account Number: 17-0026 Authorization to charge additional fees: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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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: 05/25/2006  
 Name: Howard H. Seo, Reg. No. 43,106  
 (858) 845-5235

Signature: 

FOR OFFICE USE ONLY

## 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, **James A. Hutchison**, a citizen of the United States of America having a place of residence at 12722 Sandy Crest Court San Diego, CA 92130, **Ling Hang**, a citizen of the United States of America having a place of residence at 6970 Westleigh Pl., San Diego, CA 92126, and **Robbin D. Hughes**, a citizen of the United States of America having a place of residence at 7133 Blakstad Court San Diego, CA 92126; 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:

**CDMA Frequency Acquisition Using a Simplified Crystal Oscillator That Is Not  
Temperature Compensated**

by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **01/05/2006**, and assigned Serial No. **1/327,826**, including, without limitation, all provisional patent applications, including Serial No. **60/665,617**, filed **03/24/2005**, 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.

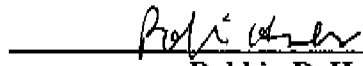
Done at San Diego, California this 11 day of May, 2006.

  
James A. Hutchison

Done at San Diego, California this 8 day of May, 2006.

  
Ling Hang

Done at San Diego, California this 8 day of may, 2006.

  
Robbin D. Hughes