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Attorney Docket No.: 030459

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Submission Type <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.	Conveyance Type <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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Conveying Party(ies) NAME 1. Gilbert Christopher Sih 2. Charles E. Sakamaki 3. De D. Hsu 4. Jian Wei 5. Richard Higgins	<input type="checkbox"/> Mark if additional names are attached EXECUTION DATE Month, Day, Year (MMDDYYYY) 07/13/2004 07/20/2004 07/14/2004 07/28/04 07/29/04
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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) 658-5787 Facsimile: (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: 7

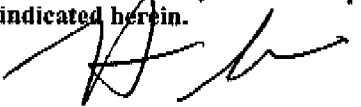
Application Number(s) or Patent Number(s)
If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application Number(s): 1. 10/807,648 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/

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)	Fee Amount for Properties Listed (37 CFR 3.41): \$ 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: August 4, 2004 Name: Howard H. Seo, Reg. 43,106 Phone No.858-845-5235	Signature: 

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PATENT

CH \$40.00 170026 10807648

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. **Gilbert Christopher Sih**, a citizen of the United States, having a place of residence at 7804 Pipit Place, San Diego, CA 92129;
2. **Charles E. Sakamaki**, a citizen of the United States, having a place of residence at 492 Maono Loop, Honolulu, HI 96821;
3. **De D. Hsu**, a citizen of the United States, having a place of residence at 9416 Laurentian Dr, San Diego, CA 92129;
4. **Jian Wei**, a citizen of China, having a place of residence at 9675 Genness Ave, G1, San Diego, CA 92121;
5. **Richard Higgins**, a citizen of the United States, having a place of residence at 3810 Crown Point Drive, San Diego, CA 92109;

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 **CACHED MEMORY SYSTEM AND CACHE CONTROLLER FOR EMBEDDED DIGITAL SIGNAL PROCESSOR** by me co-devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office **herewith**, 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

ASSIGNMENT

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 JULY, 2004.

Gilbert Christopher Sih
Gilbert Christopher Sih

Done at Honolulu, Hawaii this _____ day of _____, 2004.

Charles E. Sakamaki
Charles E. Sakamaki

Done at San Diego, California this _____ day of _____, 2004.

De D. Hsu
De D. Hsu

Done at San Diego, California this _____ day of _____, 2004.

Jian Wei
Jian Wei

Done at San Diego, California this _____ day of _____, 2004.

Richard Higgins
Richard Higgins

ASSIGNMENT

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 ____ day of ____, 2004.

Gilbert Christopher Sih

Done at Honolulu, Hawaii this 20 day of July, 2004.

Charles E. Sakamaki

Charles E. Sakamaki

Done at San Diego, California this ____ day of ____, 2004.

De D. Hsu

Done at San Diego, California this ____ day of ____, 2004.

Jian Wei

Done at San Diego, California this ____ day of ____, 2004.

Richard Higgins

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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 ____ day of ____, 2004.

Gilbert Christopher Sih

Done at Honolulu, Hawaii this ____ day of ____, 2004.

Charles E. Sakamaki

Done at San Diego, California this 14 day of July, 2004.

De D. Hsu

Done at San Diego, California this ____ day of ____, 2004.

Jian Wei

Done at San Diego, California this ____ day of ____, 2004.

Richard Higgins

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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 _____ day of _____, 2004.

Gilbert Christopher Sih

Done at Honolulu, Hawaii this _____ day of _____, 2004.

Charles E. Sakamaki

Done at San Diego, California this _____ day of _____, 2004.

De D. Hsu

Done at San Diego, California this 28 day of July, 2004.



Jian Wei

Done at San Diego, California this _____ day of _____, 2004.

Richard Higgins

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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 _____ day of _____, 2004.

Gilbert Christopher Sih

Done at Honolulu, Hawaii this _____ day of _____, 2004.

Charles E. Sakamaki

Done at San Diego, California this _____ day of _____, 2004.

De D. Hsu

Done at San Diego, California this _____ day of _____, 2004.

Jian Wei

Done at San Diego, California this 29th day of July, 2004.



Richard Higgins