# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the citizenship of the fifth inventor, Hanfang Pan. previously recorded on Reel 024554 Frame 0888. Assignor(s) hereby confirms the Assignment of Application No. 12/755,998 from Hanfang Pan to QUALCOMM Incorporated.

# CONVEYING PARTY DATA

Name	Execution Date
Peter Gaal	04/29/2010
Robert J. Fuchs	04/29/2010
Yongbin Wei	04/29/2010
Ke Liu	04/23/2010
Hanfang Pan	04/29/2010
Durga Prasad Malladi	04/29/2010
Daniel T. Macek	04/29/2010

# **RECEIVING PARTY DATA**

Name:	QUALCOMM Incorporated	
Street Address:	5775 Morehouse Drive	
City:	San Diego	
State/Country:	CALIFORNIA	
Postal Code:	92121	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12755998

### CORRESPONDENCE DATA

Fax Number:	(858)658-2502
Email:	us-docketing@qualcomm.com
Correspondence will be se via US Mail.	ent to the e-mail address first; if that is unsuccessful, it will be sent
Correspondent Name:	QUALCOMM Incorporated
Address Line 1:	5775 Morehouse Drive
Address Line 4:	San Diego, CALIFORNIA 92121

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ATTORNEY DOCKET NUMBER:	072449
NAME OF SUBMITTER:	Gayle Gestick
Total Attachments: 8 source=072449_NoticeofRecordationofAssi source=072449_NoticeofRecordationofAssi source=072449_NoticeofRecordationofAssi source=072449_NoticeofRecordationofAssi source=072449_NoticeofRecordationofAssi source=072449_Initialed_Corrective_ASSTa source=072449_Initialed_Corrective_ASSTa	gnment#page2.tif gnment#page3.tif gnment#page4.tif gnment#page5.tif #page1.tif #page2.tif

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COMPANY: 5775 MOREHOUSE DRIVE

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#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



\*501208329A\*

JUNE 18, 2010

PTAS

QUALCOMM INCORPORATED 5775 MOREHOUSE DRIVE SAN DIEGO, CA 92121

> UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

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#### RECORDATION DATE: 06/17/2010

REEL/FRAME: 024554/0888 NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 072449

ASSIGNOR: GAAL, PETER	DOC DATE:	04/29/2010
ASSIGNOR: FUCHS, ROBERT J.	DOC DATE:	04/29/2010
ASSIGNOR: WEI, YONGBIN	DOC DATE:	04/29/2010
ASSIGNOR: LIU, KE	DOC DATE:	04/23/2010
ASSIGNOR: PAN, HANFANG	DOC DATE:	04/29/2010
ASSIGNOR: MALLADI, DURGA PRASAD	DOC DATE:	04/29/2010

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COMPANY: 5775 MOREHOUSE DRIVE

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**D:QUALCOMM INCORPORATED** 

#### 024554/0888 PAGE 2

ASSIGNOR: MACEK, DANIEL T.

DOC DATE: 04/29/2010

ASSIGNEE:

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QUALCOMM INCORPORATED 5775 MOREHOUSE DRIVE SAN DIEGO, CALIFORNIA 92121

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SERIAL NUMBER: 12755998 PATENT NUMBER: I2755998 FILING DATE: 04/07/2010 ISSUE DATE: TITLE: EFFICIENT ZADOFF-CHU SEQUENCE GENERATION

ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

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**D:QUALCOMM INCORPORATED COMPANY:5775 MOREHOUSE DRIVE** 

# PATENT ASSIGNMENT

Electronic	Version	v1.1
Stylesheet	Version	v1.1

06/17/2010 501208329

SUBMISSION TYPE:			NEW ASSIGNMENT		
NATURE OF CONVEN	ANCE:		ASSIGNMENT		
CONVEYING PARTY	DATA				
Name		Name	Execution Date	<b>)</b> .	
Peter Gaal				04/29/2010	
Robert J. Fuchs				04/29/2010	
Yongbin Wei				04/29/2010	
Ke Liu				04/23/2010	
Hanfang Pan				04/29/2010	
Durga Prasad Malladi				04/29/2010	
Daniel T. Macek				04/29/2010	
Name:		QUALCOMM Incorporated			1
Name:	QUALCOMM	QUAL COMM Incorporated			}
Street Address:	5775 Morehouse Drive				
City:	San Diego				
State/Country:	CALIFORNIA				
Postal Code:	92121				
PROPERTY NUMBER	S Total: 1				<u></u>
Property Ty	ре		Number		
Application Number:		12755	5998		
CORRESPONDENCE	DATA				
Fax Number: Correspondence will b Email: Correspondent Name: Address Line 1: Address Line 4:	us-dock QUALC 5775 Me	<i>Mail</i> w eting@ OMM I prehou	2 When the fax attempt is unsuccessful. Moualcomm.com Incorporated Ise Drive ALIFORNIA 92121		
ATTORNEY DOCKET NUMBER: 072449		072449		······································	
NAME OF SUBMITTE	R:		Gayle Gestick		•

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**D:QUALCOMM INCORPORATED COMPANY: 5775 MOREHOUSE DRIVE** 

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# 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,

Peter Gaal, a citizen of the United States of America, having a mailing address of 5775 1. Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,

2, Robert J. Fuchs, a citizen of Canada, having a mailing address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diego, CA,

Yongbin Wei, a citizen of China, having a mailing address of 5775 Morehouse Drive, 3. San Diego, California, USA 92121; and a resident of San Diego, CA,

Ke Liu, a citizen of China, having a mailing address of 5775 Morehouse Drive, San 4. Diego, California, USA 92121; and a resident of San Diego, CA,

California, USA 72121, ..... United States of America Hanfang Pan, a citizen of <del>China;</del> having a mailing address of 5775 Morehouse Drive, San Hanfang Pan, a citizen of <del>China;</del> having a mailing address of 5775 Morehouse Drive, San Hanfang Pan, a citizen of <del>China;</del> having a mailing address of 5775 Morehouse Drive, San Hanfang Pan, a citizen of <del>China;</del> having a mailing address of 5775 Morehouse Drive, San Hanfang Pan, a citizen of <del>China;</del> having a mailing address of 5775 Morehouse Drive, San 5. Diego, California, USA 92121; and a resident of San Diego, CA,

Durga Prasad Malladi, a citizen of the United States of America, having a mailing 6. address of 5775 Morehouse Drive, San Diego, California, USA 92121; and a resident of San Diege, CA,

PATENT Docket No. 072449 Page 2 of 3

## ASSIGNMENT

Daniel T. Macek, a citizen of the United States of America, having a mailing address of
5775 Morehouse Drive, San Diego, California, USA 92121, and a resident of San Diego, CA,

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 EFFICIENT ZADOFF-CHU SEQUENCE GENERATION by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on 04/07/2010, and assigned Serial No. 12/755,998, including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and continuations-in-part 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  $\frac{29^{4}}{1000}$  day of  $\frac{April}{1000}$ , 2010. Peter Gaal

PATENT Docket No. 072449 Page 3 of 3

# ASSIGNMENT

Done at San Diego, California this 27 <sup>11/</sup> day of <u>April</u> , 2010. Robert J. Fuchs
Done at San Diego, California this 294 day of 1700 & 2010.
Done at San Diego, California this 23 day of April, 2010.
Done at San Diego, California this $27$ day of $Ap^{1}$ , 2010. (4-45) Can
Hanfang Pan Done at San Diego, California this <u>29</u> day of <u>April</u> 2010. <u>Monuted</u>
Done at San Diego, California this <u>29</u> <sup>th</sup> day of <u>API</u> , <u>3010</u> . Daniel T. Macek

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RECORDED: 03/09/2012