

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3011703

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ZHOUYUE PI	09/10/2008
JIANZHONG ZHANG	09/08/2008
FAROOQ KHAN	09/15/2008
JIANNAN TSAI	09/10/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14199952
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(310)201-5219
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	310.277.7200
<b>Email:</b>	Qualcomm-USPTO@seyfarth.com
<b>Correspondent Name:</b>	SEYFARTH SHAW LLP
<b>Address Line 1:</b>	2029 CENTURY PARK EAST, SUITE 3500
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90067
<b>ATTORNEY DOCKET NUMBER:</b>	100583D1
<b>NAME OF SUBMITTER:</b>	JOSEPH LUTZ
<b>SIGNATURE:</b>	/Joseph Lutz/
<b>DATE SIGNED:</b>	09/05/2014
<b>Total Attachments: 2</b>	
source=100583D1_Assignment_Inventors-Samsung_as_filed_05September2014#page1.tif	
source=100583D1_Assignment_Inventors-Samsung_as_filed_05September2014#page2.tif	

**ASSIGNMENT** (Page One of Two)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:  
IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

**ASSIGNEE:** **SAMSUNG ELECTRONICS CO., LTD.,**  
*a corporation chartered in and existing under the laws of the Republic of Korea,*

**ADDRESS:** 416 Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, 442-370, Republic of Korea

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

**TITLE: METHODS AND APPARATUS FOR CHANNEL QUALITY INDICATION FEEDBACK IN A COMMUNICATION SYSTEM**

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

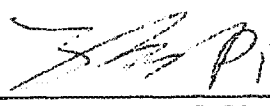
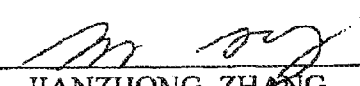
- ☐ executed on even date herewith, or  
☒ Serial No. 12/232,376 filed in the U.S. Patent & Trademark Office on 09/16/2008, or  
☐ executed on \_\_\_\_\_

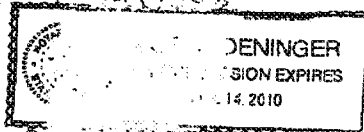
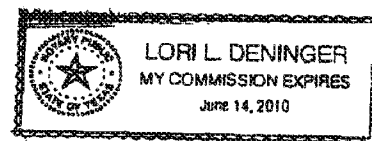
and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG ELECTRONICS CO., LTD., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres;

AND I do hereby authorize and request the Commissioner of Patent & Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request R. E. Bushnell, Reg. No. 27,774, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

	<u>INVENTOR(s)</u>	<u>Date Signed</u>
1)	<u></u> (Seal) ZHOUYUE PI	<u>9/10/2008</u>
2)	<u></u> (Seal) JIANZHONG ZHANG	<u>9/8/08</u>



☐ Additional inventors are being named on separately numbered sheets attached hereto.

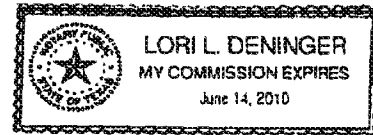
**ASSIGNMENT** (Page Two of Two)

3)  (Seal)  
FAROOQ KHAN

9/15/08

4)  (Seal)  
JIANNAN TSAI

9/19/08



*Lori L. Deninger*  
9-15-08



*Lori L. Deninger*  
9/19/08