

**PATENT ASSIGNMENT**

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
Xiaoxin Zhang	09/16/2011
<b>RECEIVING PARTY DATA</b>	
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<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
Application Number:	13236232
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Total Attachments: 3 source=ATH_0853_AssignmentToFile#page1.tif source=ATH_0853_AssignmentToFile#page2.tif source=ATH_0853_AssignmentToFile#page3.tif	

OP \$40.00 13236232

**PATENT**

**501664981**

**REEL: 026939 FRAME: 0897**

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **HYBRID TIME OF ARRIVAL BASED POSITIONING SYSTEM**

and further identified by the Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application Serial Number: 13/236,232 (insert series code and serial number here if/when available)

Whereas, Qualcomm Atheros, Inc., an organization of Delaware having a place of business at San Jose, CA (herein referred to as "Qualcomm Atheros"), desires to acquire, and each undersigned Inventor desires to grant to Qualcomm Atheros, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to Qualcomm Atheros (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to Qualcomm Atheros, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by Qualcomm Atheros, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in Qualcomm Atheros, its successors, legal representatives, and assigns, whenever requested by Qualcomm Atheros, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to Qualcomm Atheros and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants Qualcomm Atheros, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment.

[Inventor Signature Pages Follow]

Executed by Inventor 1 of 2

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Signature   
Xiaoxin Zhang

Date 09/16/2011

Executed by Inventor 2 of 2

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Signature   
Ning Zhang

Date 9/16/11