

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hosseini Dehghan</td> <td>05/24/2012</td> </tr> <tr> <td>Sam Heidari</td> <td>05/24/2012</td> </tr> <tr> <td>Muhammad Abdelghaffar</td> <td>05/15/2012</td> </tr> </tbody> </table>		Name	Execution Date	Hosseini Dehghan	05/24/2012	Sam Heidari	05/24/2012	Muhammad Abdelghaffar	05/15/2012		
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Muhammad Abdelghaffar	05/15/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Quantenna Communications Inc.</td> </tr> <tr> <td>Street Address:</td> <td>3450 West Warren Ave</td> </tr> <tr> <td>City:</td> <td>Fremont</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94538</td> </tr> </table>		Name:	Quantenna Communications Inc.	Street Address:	3450 West Warren Ave	City:	Fremont	State/Country:	CALIFORNIA	Postal Code:	94538
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PROPERTY NUMBERS Total: 1											
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Application Number:	13506457										
CORRESPONDENCE DATA											
<p>Fax Number: (408)850-9585 Phone: 408-850-9585 Email: CCCARY@IPCREATORS.COM</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: IP CREATORS Address Line 1: P. O. BOX 2789 Address Line 4: CUPERTINO, CALIFORNIA 95015</p>											
ATTORNEY DOCKET NUMBER:	QTNAP161405US										
NAME OF SUBMITTER:	Charles C Cary										
<p>Total Attachments: 3 source=QtnaP161405us_Assignment_Executed#page1.tif source=QtnaP161405us_Assignment_Executed#page2.tif source=QtnaP161405us_Assignment_Executed#page3.tif</p>											

OP \$40.00 13506457

ASSIGNMENT OF PATENT APPLICATION

Whereas I/we the undersigned inventor(s) have invented certain new and useful improvements as set forth in the patent application entitled:

MIXED-MODE MIMO DETECTOR IN A LOCAL AREA NETWORK

(Atty. Docket No.: **QtnaP161405us**) for which I (we) have executed an application for a United States Letters Patent filed **April 19, 2012** and allocated USSN **13/506,457**

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We the undersigned inventor(s) hereby:

- 1) Sell(s), assign(s) and transfer(s) to **QUANTENNA COMMUNICATIONS, INC., a Delaware corporation having a place of business at 3450 West Warren Avenue, Fremont, CA 94538 United States**, (hereinafter referred to as "ASSIGNEE"), the entire right title and interest in any and all improvements and inventions disclosed in, application(s) based upon, and Patent(s) (including foreign patents) granted upon the information which is disclosed in the above referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division(s), continuation(s), substitutes(s) or reissue(s) thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative and applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the Assignee, its successors, assigns and other legal representative, and shall be binding upon the inventor(s), as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I/we have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Assignors hereby grant assignee or assignee's designee the right to insert the U.S. Patent Application number and filing date where space is provided above at any time subsequent to the date of the assignor's signature below.

Signed on the date(s) indicated beside my (our) signature(s).

1. Inventor Signature: _____

Hossein DEHGHAN

Date: 5/24/2012

State of California

County of ALAMEDA

NOTARY

On 5-24-12 before me, K.P. Ariathurai, Public, personally appeared **Hossein DEHGHAN**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature _____

K.P. Ariathurai

(SEAL)



2. Inventor Signature: _____

Sam HEIDARI

Date: 5-24-12

State of California

County of ALAMEDA

NOTARY

On 5-24-12 before me, K.P. Ariathurai, Public, personally appeared **Sam HEIDARI**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Notary Signature _____

K.P. Ariathurai

(SEAL)



3. Inventor Signature: Muhammad Abdelghaffar Date: 05/15/2012
Muhammad ABDELGHAFAR

State of California
County of Orange

On 05/15/2012 before me, Jin Li Notary Public, personally appeared **Muhammad ABDELGHAFAR**, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

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