

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
OMAR BAKR	12/19/2019
STEPHEN P. BRUZZONE	12/19/2019
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<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17402394
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<b>SIGNATURE:</b>	/Ashley Palbicki/
<b>DATE SIGNED:</b>	08/13/2021
<b>Total Attachments: 3</b>	
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source=20210813_Assignment-signed_P282447US02#page3.tif	

**PATENT ASSIGNMENT**

WHEREAS, WE, Omar Bakr and Stephen P. Bruzzone ("Assignors"), having a post office address of c/o Tarana Wireless, Inc. 2953 Bunker Hill Lane, Suite 100, Santa Clara, California 95054, respectively, are the named inventors on a U.S. Application entitled "SYSTEMS AND METHODS FOR CALCULATING FREQUENCY-LOCALIZED ADAPTIVE BEAMFORMER WEIGHTS USING SLIDING WINDOWS ACROSS SUBCARRIERS," identified by Attorney Docket No. P282447.US.01 ("the Application"), filed on October 11, 2019 and assigned U.S. Application No.16/600,143 ; and

WHEREAS, Tarana Wireless, Inc. ("Assignee"), a corporation in the state of California having a place of business at 2953 Bunker Hill Lane, Suite 100, Santa Clara, California 95054, is desirous of acquiring the entire right, title and interest in and to the Application and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Assignor has sold, conveyed, assigned and transferred, and do hereby sell, convey, assign, transfer and set over unto Assignee, the entire right, title and interest in and to: (i) the Application and all the inventions claimed or disclosed in such Application; (ii) all pending applications and all provisional applications, divisional applications, continuation applications, continuation-in-part applications, continued prosecution applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions, or applications claiming priority to or relying on the disclosure of the Application, or to which the Application directly or indirectly claims priority; (iii) all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions and/or patent applications; and (iv) all rights of priority resulting from the filing of said patents and/or patent applications ((i) – (iv) collectively, the "Patents").

Said sale, conveyance, assignment and transfer includes, without limitation, all rights to enforce, assert and sue for past, present and future infringement of the Patents, all rights to collect royalties on account of the Patents, and all rights to recover and collect for past, present and future damages related to the Patents, including injunctive relief or any other remedies of any kind.

Assignor hereby authorizes and requests the competent authorities to grant and to issue any and all such Patents in the United States and throughout the world to the Assignee and the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by the Assignor had this assignment not been made.

Assignor further agrees to cooperate with Assignee at all times, and to execute and to deliver upon request of the Assignee such additional documents, if any, as are necessary or desirable, in the prosecution of the Patents, and to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do such acts as are necessary to give full effect to and to perfect the rights of the Assignee under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable. In the event that an Assignor is unable or unwilling to do so, the Assignor hereby authorizes the Assignee, or the Assignee's attorney or agent, to execute on Assignor's behalf substitute statements or other documents required for obtaining, perfecting, sustaining, and/or enforcing the Patents. If not already present and if so required, the Assignor hereby authorizes the Assignee, or Assignee's attorney or agent, to insert the filing date and application number of the Patents when known.

**ASSIGNOR:**

Signature: \_\_\_\_\_

Date: 2019-12-19  
(YYYY-MM-DD)

Assignor Name: Omar Bakr

Witness:

Signature: \_\_\_\_\_

Date: 2019-12-19  
(YYYY-MM-DD)Witness Name: DALE BRANLUND

Signature: \_\_\_\_\_

Date: 2019-12-19  
(YYYY-MM-DD)

Assignor Name: Stephen P. Bruzzone

Witness:

Signature: \_\_\_\_\_

Date: 2019-12-19  
(YYYY-MM-DD)Witness Name: DALE BRANLUND

**ASSIGNEE:**

ASSIGNEE hereby acknowledges receipt of the entire right, title and interest in and to the Patents.

**Tarana Wireless, Inc.**

The undersigned (whose title is supplied below) is authorized to act on behalf of the Assignee.

Signature: 

Date: 2018-10-16  
(YYYY-MM-DD)

Print Name: DALE BRANLUND

Title: CTO