

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4891159

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AIRSPAN NETWORKS INC.	03/28/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PACIFIC WESTERN BANK
<b>Street Address:</b>	406 BLACKWELL STREET
<b>Internal Address:</b>	SUITE 240
<b>City:</b>	DURHAM
<b>State/Country:</b>	NORTH CAROLINA
<b>Postal Code:</b>	27701
<b>PROPERTY NUMBERS Total: 12</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15187616
Application Number:	15187602
Application Number:	15187570
Application Number:	15187574
Application Number:	15182209
Application Number:	15187515
Application Number:	15187680
Application Number:	15186134
Application Number:	15187188
Application Number:	15186955
Application Number:	15187159
Application Number:	15186900
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)354-1278
<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>	919-314-3086
<b>Email:</b>	diligencereview@square1bank.com
<b>Correspondent Name:</b>	PACIFIC WESTERN BANK
<b>Address Line 1:</b>	406 BLACKWELL STREET

PATENT

<b>Address Line 2:</b>	SUITE 240
<b>Address Line 4:</b>	DURHAM, NORTH CAROLINA 27701

<b>NAME OF SUBMITTER:</b>	NICHOLAS NANCE
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<b>SIGNATURE:</b>	/NICHOLASNANCE-CCD/
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<b>DATE SIGNED:</b>	03/29/2018
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**Total Attachments: 5**

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**SUPPLEMENT  
TO  
INTELLECTUAL PROPERTY SECURITY AGREEMENT**

This Supplement to Intellectual Property Security Agreement is entered into as of March 28, 2018 by and between **PACIFIC WESTERN BANK** ("**Bank**") and **AIRSPAN NETWORKS INC.**, a Delaware corporation and **AIRSPAN NETWORKS (SG) INC.**, a Delaware corporation (jointly and severally, "**Grantor**").

**RECITALS**

A. Bank (as successor in interest by merger to Square 1 Bank), and Grantor previously entered into an Intellectual Property Security Agreement (the "**IP Security Agreement**"), dated as of August 15, 2011 (the "**Effective Date**"). Capitalized terms that are used but not defined herein shall have the meanings provided for in the IP Security Agreement.

B. Bank and Grantor now desire to amend and supplement the IP Security Agreement as set forth herein.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, the parties hereby represent, warrant, covenant and agree as follows:

**AGREEMENT**

The IP Security Agreement is hereby amended and supplemented by adding the Intellectual Property listed on Exhibit A hereto to Exhibit A of the IP Security Agreement, the Intellectual Property listed on Exhibit B hereto to Exhibit B of the IP Security Agreement, and the Intellectual Property listed on Exhibit C hereto to Exhibit C of the IP Security Agreement. References to Exhibits contained in the IP Security Agreement shall be deemed to refer to such Exhibits as supplemented by the Exhibits attached hereto. Without limitation on the generality of the foregoing, (1) Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under the intellectual property described on the Exhibits hereto, including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions, continuations, renewals, extensions and continuations-in-part thereof, and (2) Grantor represents and warrants to Bank that, other than as set forth on the Exhibits to the IP Security Agreement (as amended and supplemented by the Exhibits hereto), it has no trademarks or patents registered with the United States Patent and Trademark Office, or copyrights registered with the United States Copyright Office, or any pending applications therefor.

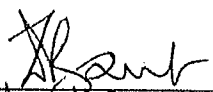
This Agreement is part of the IP Security Agreement and the provisions thereof are incorporated herein. The parties are authorized to attach to the IP Security Agreement a copy of the Exhibits hereto. This Agreement may be executed in any number of, and by different parties

hereto on, separate counterparts, all of which, when so executed, shall be deemed an original, for all such counterparts shall constitute one and the same agreement.

IN WITNESS WHEREOF, the parties have caused this Supplement to Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.


GRANTOR:

AIRSPAN NETWORKS INC.

By:   
Name: DAVID BRANT  
Title: CEO

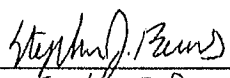
GRANTOR:

AIRSPAN NETWORKS (SG) INC.

By:   
Name: DAVID BRANT  
Title: CEO

BANK:

PACIFIC WESTERN BANK

By:   
Name: Stephen J. Benes  
Title: SVP

**EXHIBIT A**

**COPYRIGHTS**

<b>DESCRIPTION</b>	<b>REGISTRATION/ APPLICATION NUMBER</b>	<b>REGISTRATION/ APPLICATION DATE</b>
None.		

**EXHIBIT B****PATENTS\***

<b>DESCRIPTION</b>	<b>REGISTRATION/ APPLICATION NUMBER</b>	<b>REGISTRATION/ APPLICATION DATE</b>
Wireless Network Configuration Using Path Loss Determination Between Nodes	20160381591 15/187,616	12/29/16 06/20/16
Managing External Interference in a Wireless Network	20160381590 15/187,602	12/29/16 06/20/16
Quality of Service in Wireless Backhauls	20160381585 15/187,570	12/29/16 06/20/16
Node Role Assignment in Networks	20160381574 15/187,574	12/29/16 06/20/16
Antenna Apparatus and Method of Configuring a Transmission Beam for the Antenna Apparatus	20160381570 15/182,209	12/29/16 06/14/16
Sub-Sampling Antenna Elements	20160380363 15/187,515	12/29/16 06/20/16
Configurable Antenna and Method of Operating Such a Configurable Antenna	20160380355 15/187,680	12/29/16 06/20/16
Antenna Apparatus and Method of Performing Spatial Nulling Within the Antenna Apparatus	9,706,419 15/186,134	07/11/17 06/17/16
Configurable Antenna and Method of Operating Such A Configurable Antenna	20160380353 15/187,188	12/29/16 06/20/16
Rotatable Antenna Apparatus	20160380350 15/186,955	12/29/16 06/20/16
Rotatable Antenna Apparatus	20160380349 15/187,159	12/29/16 06/20/16
Bearing Calculation	20160377695 15/186,900	12/29/16 06/20/16

\*Airspan Networks Inc. is the identified owner of each of the above listed patents.

## EXHIBIT C

### TRADEMARKS\*

DESCRIPTION	REGISTRATION/ SERIAL NUMBER	REGISTRATION/ APPLICATION DATE
AIRHARMONY	87801408	02/16/18
AIRSTRAND	87801400	02/16/18
AIRPOLE	87801397	02/16/18
AIR5G	79218392	08/08/17

\*Airspan Networks Inc. is the identified owner of each of the above listed trademarks.