

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3582493

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
AIRVANA LP		10/01/2015
RECEIVING PARTY DATA		
Name:	COMMSCOPE TECHNOLOGIES LLC	
Street Address:	1100 COMMSCOPE PLACE, SE	
City:	HICKORY	
State/Country:	NORTH CAROLINA	
Postal Code:	28602	
PROPERTY NUMBERS Total: 63		
Property Type	Number	
Patent Number:	8160629	
Patent Number:	8688809	
Patent Number:	8078165	
Patent Number:	8457084	
Patent Number:	8229498	
Patent Number:	8731574	
Patent Number:	8176327	
Patent Number:	7926098	
Patent Number:	8400989	
Patent Number:	8781483	
Patent Number:	8345694	
Patent Number:	8543139	
Patent Number:	8554231	
Patent Number:	8750271	
Patent Number:	8452299	
Patent Number:	8594663	
Patent Number:	7933619	
Patent Number:	8520659	
Patent Number:	8355727	
Patent Number:	8060058	

PATENT

Property Type	Number
Patent Number:	8615593
Patent Number:	8259671
Application Number:	11968088
Patent Number:	8909278
Patent Number:	7835698
Patent Number:	8165528
Patent Number:	7983672
Patent Number:	8402143
Patent Number:	8229397
Patent Number:	8295256
Patent Number:	8503342
Patent Number:	8311570
Patent Number:	8886249
Patent Number:	8290527
Application Number:	11572979
Patent Number:	8942136
Patent Number:	8379625
Patent Number:	8953566
Patent Number:	9078284
Patent Number:	8774134
Patent Number:	8280376
Patent Number:	8170598
Patent Number:	8326342
Patent Number:	7995493
Application Number:	12347201
Patent Number:	8693987
Patent Number:	8160631
Patent Number:	8542707
Patent Number:	8805371
Patent Number:	8385291
Patent Number:	8873512
Patent Number:	7907571
Patent Number:	8718697
Patent Number:	8340636
Application Number:	13907508
Application Number:	13762283
Application Number:	13762284
Application Number:	13762292

Property Type	Number
Application Number:	14734311
PCT Number:	US2015034829
Application Number:	62009653
Application Number:	62051212
PCT Number:	US2014015137

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: COMMScope 0947088

NAME OF SUBMITTER: AMBER C JOHNSON

SIGNATURE: /Amber C Johnson/

DATE SIGNED: 10/22/2015

Total Attachments: 10

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PATENT ASSIGNMENT AGREEMENT

This Patent Assignment Agreement (this “**Agreement**”), effective as of the execution date written below, is made by Airvana LP (“**Assignor**”), a Delaware limited partnership, in favor of CommScope Technologies LLC (“**Assignee**”), a Delaware limited liability company.

W I T N E S S E T H:

WHEREAS, pursuant to Section 1.1 of that certain Asset Purchase Agreement, dated as of September 4, 2015, by and among Assignor, Airvana Networks India Private Limited, and Assignee (the “**Asset Purchase Agreement**”), Assignor desires to transfer to Assignee the Patents (as hereinafter defined);

NOW, THEREFORE, in consideration of the mutual covenants contained herein, and of other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby agrees as follows:

1. Assignment of the Patents. Assignor does hereby assign, grant, transfer, contribute and deliver to Assignee the full, exclusive and entire right, title, and interest in and to the patents and patent applications listed on Schedule A attached hereto, in and to any divisions, continuations, continuations-in-part, renewals and reissues thereof, and in and to all inventions disclosed and described therein, as well as any corresponding (in whole or in part) future United States or foreign patents and patent applications, and in and to the right to claim any applicable priority rights arising from the schedule patents and patent applications or otherwise required for said corresponding future United States or foreign patents and applications under the terms of any applicable conventions, treaties, statutes, or regulations (collectively, the “**Patents**”). Assignor hereby requests the Commissioner for Patents to issue any and all Patents to Assignee, as the assignee, for its interest and for the sole use and benefit of Assignee and its assigns and legal representatives. All rights to the Patents, including, without limitation, the right to sue for any damages and other remedies in respect of any infringement of the Patents which may have occurred prior to the date of this Agreement shall be the sole property of Assignee and inure to the benefit of Assignee.

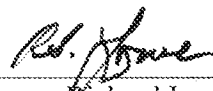
2. Further Assurances. Assignor agrees to sign all documents, including assignments, transfers and related powers of attorney, and take all further actions as reasonably requested by Assignee to effect, record, perfect or enforce the transfers set forth in this Agreement and ensure that all of Assignor’s right, title and interest in and to the Patents and all registrations and recordings thereof, are properly assigned to Assignee, its successors and assigns in accordance with this Agreement.

3. Successors and Assigns. The terms and provisions of this Agreement and the respective rights and obligations of Assignor and Assignee hereunder shall be binding upon, and inure to the benefit of, their respective successors and assigns.

4. Recordings. An executed copy of this Agreement may be filed with the United States Patent and Trademark Office or in the patent office of any other country or region, as applicable, by Assignee or Assignor at any time.

IN WITNESS WHEREOF, Assignor has caused this Agreement to be executed and delivered as of the execution date written below.

AIRVANA LP

By: 
Name: Richard Lowe
Title: President

Execution Date: October 1, 2015

* * * *

[Signature page to Patent Assignment Agreement]

Schedule A

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	12/15/2006	11/640,415	CONTROLLING REVERSE LINK INTERFERENCE IN PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	4/17/2012	8,160,629
UNITED STATES	12/15/2006	11/640,501	PROVISIONING PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	4/1/2014	8,688,809
UNITED KINGDOM	9/6/2007	0905844.7	PROVISIONING PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	3/9/2011	2456090
UNITED STATES	12/15/2006	11/640,503	CONFIGURING PREFERRED USER ZONE LISTS FOR PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	12/13/2011	8,078,165
UNITED STATES	12/20/2006	11/642,245	COMMUNICATION GROUP CONFIGURATION IN A NETWORK	6/4/2013	8,457,084
CHINA	12/18/2007	200780051497.8	COMMUNICATION GROUP CONFIGURATION IN A NETWORK		
UNITED KINGDOM	12/18/2007	0910839.0	COMMUNICATION GROUP CONFIGURATION IN A NETWORK	5/11/2011	2457413
JAPAN	12/18/2007	2009-543127	COMMUNICATION GROUP CONFIGURATION IN A NETWORK	7/12/2013	5313918

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	12/28/2006	11/617,298	ASSIGNING CODE SPACE TO PORTABLE BASE STATIONS	7/24/2012	8,229,498
UNITED STATES	7/23/2012	13/555,830	ASSIGNING CODE SPACE TO PORTABLE BASE STATIONS	5/20/2014	8,731,574
UNITED STATES	12/27/2006	11/645,986	AUTHENTICATION PROTOCOL	5/8/2012	8,176,327
UNITED STATES	12/29/2006	11/618,106	HANDOFF OF A SECURE CONNECTION AMONG GATEWAYS	4/12/2011	7,926,098
UNITED STATES	4/13/2007	11/735,107	ACTIVATING PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	3/19/2013	8,400,989
UNITED STATES	4/13/2007	11/735,073	CONTROLLING ACCESS TO PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	7/15/2014	8,781,483
UNITED KINGDOM	4/11/2008	0918096.9	CONTROLLING ACCESS TO PRIVATE ACCESS POINTS FOR WIRELESS NETWORKING	11/30/2011	2461444
UNITED STATES	12/31/2007	11/967,370	NETWORK ADDRESS TRANSLATION FOR TUNNEL MOBILITY	1/1/2013	8,345,694
UNITED STATES	8/3/2007	11/833,740	DISTRIBUTED NETWORK	9/24/2013	8,543,139
UNITED STATES	12/31/2007	11/968,090	ADAPTATION OF PORTABLE BASE STATIONS INTO CELLULAR NETWORKS	10/8/2013	8,554,231

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	3/28/2011	13/073,512	ADAPTATION OF PORTABLE BASE STATIONS INTO CELLULAR NETWORKS	6/10/2014	8,750,271
UNITED KINGDOM	12/19/2008	1011043.5	ADAPTION OF PORTABLE BASE STATIONS INTO CELLULAR NETWORKS (as amended)	8/1/2012	1011043.5
INDIA	12/19/2008	2406/KOLNP/2010	AGGREGATING PORTABLE BASE STATIONS OF FEMTOCELLS		
UNITED STATES	12/21/2007	11/962,983	ALLOCATING CODE SPACE TO BASE STATIONS	5/28/2013	8,452,299
UNITED STATES	9/24/2007	11/903,742	SELECTING EMBEDDED CELLS IN WIRELESS NETWORKS	11/26/2013	8,594,663
UNITED STATES	10/2/2007	11/866,238	WIRELESS CONTROL OF ACCESS POINTS	4/26/2011	7,933,619
UNITED KINGDOM	10/2/2008	1005735.4	WIRELESS CONTROL OF ACCESS POINTS	9/19/2012	2466155
UNITED STATES	12/18/2007	11/958,975	ABSOLUTE TIME RECOVERY	8/27/2013	8,520,659
UNITED STATES	12/19/2007	11/960,026	PROXIMITY DETECTION IN A NETWORK	1/15/2013	8,355,727
UNITED STATES	12/28/2007	11/966,195	SECURE MOBILE BASE STATION CONNECTIONS	11/15/2011	8,060,058
UNITED STATES	12/21/2007	11/962,734	PROVIDING ZONE INDICATIONS FOR WIRELESS NETWORKING	12/24/2013	8,615,593
UNITED STATES	12/18/2007	11/958,934	ATTRACTING ACCESS TERMINALS	9/4/2012	8,259,671

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	12/31/2007	11/968,088	IMS SECURITY FOR FEMTOCELLS		
UNITED STATES	12/21/2007	11/963,574	ADJUSTING WIRELESS SIGNAL TRANSMISSION POWER	12/9/2014	8,909,278
UNITED KINGDOM	12/18/2008	1010586.4	ADJUSTING WIRELESS SIGNAL TRANSMISSION POWER	9/12/2012	2468451
UNITED STATES	12/31/2007	11/967,925	INTERFERENCE MITIGATION IN WIRELESS NETWORKS	11/16/2010	7,835,698
UNITED STATES	12/27/2007	11/965,070	INTERFERENCE MITIGATION IN WIRELESS NETWORKS	4/24/2012	8,165,528
UNITED STATES	12/19/2007	11/960,100	MANAGING COMMUNICATIONS WITH PRIVATE ACCESS POINTS IN WIRELESS NETWORKS	7/19/2011	7,983,672
UNITED STATES	12/28/2007	11/966,535	SECURE PROXIES FOR FLAT NETWORKS	3/19/2013	8,402,143
UNITED KINGDOM	12/18/2008	1011041.9	SECURE PROXIES FOR FLAT NETWORKS	9/19/2012	2468259
UNITED STATES	9/23/2008	12/236,420	ACCESS TERMINAL AUTHORIZATION AT PRIVATE ACCESS POINTS IN WIRELESS NETWORKS	7/24/2012	8,229,397
UNITED STATES	8/29/2008	12/201,380	PRIVATE ACCESS POINT BEACON SIGNALS IN WIRELESS NETWORKS	10/23/2012	8,295,256
EUROPEAN PATENT CONVENTION	8/1/2005	05767588.6	SIGNAL TRANSMISSION METHOD FROM A	4/25/2012	1779543

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
- UK			LOCAL NETWORK NODE		
UNITED KINGDOM	8/1/2005	05767588.6	SIGNAL TRANSMISSION METHOD FROM A LOCAL NETWORK NODE	4/25/2012	1779543
UNITED STATES	1/30/2007	11/572,973	SIGNAL TRANSMISSION METHOD FROM A LOCAL NETWORK NODE	8/6/2013	8,503,342
UNITED STATES	3/29/2011	13/074,813	METHOD AND SYSTEM OF SETTING TRANSMITTER POWER LEVELS	11/13/2012	8,311,570
UNITED STATES	11/9/2012	13/673,648	METHOD AND SYSTEM OF SETTING TRANSMITTER POWER LEVELS	11/11/2014	8,886,249
EUROPEAN PATENT CONVENTION	8/1/2005	05767920.1	POWER CONTROL IN A LOCAL NETWORK NODE (LNN)		
UNITED STATES	1/30/2007	11/572,977	POWER CONTROL IN A LOCAL NETWORK NODE (LNN)	10/16/2012	8,290,527
EUROPEAN PATENT CONVENTION	8/1/2005	05767600.9	A LOCAL NETWORK NODE		
UNITED STATES	1/30/2007	11/572,979	A LOCAL NETWORK NODE		
UNITED KINGDOM	10/7/2006	0619892.3	IN-C DEVICE TO CORE NETWORK INTERFACE SPECIFICATION	8/10/2011	2452688
UNITED STATES	10/7/2008	12/246,861	ALLOCATING COMMUNICATION FREQUENCIES TO CLUSTERS OF	1/27/2015	8,942,136

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
			ACCESS POINTS		
UNITED STATES	12/24/2008	12/343,850	OBTAINING TIME INFORMATION IN A CELLULAR NETWORK	2/19/2013	8,379,625
UNITED STATES	12/29/2008	12/345,472	PROVIDING A CELLULAR NETWORK WITH CONNECTIVITY TO A DIFFERENT NETWORK	2/10/2015	8,953,566
UNITED STATES	12/31/2008	12/347,574	PERSONAL ACCESS POINT MEDIA SERVER	7/7/2015	9,078,284
UNITED STATES	12/23/2008	12/343,438	ACCESS TERMINAL HAND-OFF METHODS IN WIRELESS NETWORKS	7/8/2014	8,774,134
UNITED STATES	12/31/2008	12/347,511	GEOGRAPHY AWARE PEER-TO-PEER OVERLAY CREATION	10/2/2012	8,280,376 B2
UNITED STATES	12/30/2008	12/346,464	INFORMATION SHARING IN A PRIVATE ACCESS POINT NETWORK	5/1/2012	8,170,598
UNITED STATES	11/18/2011	13/300,242	INFORMATION SHARING IN A PRIVATE ACCESS POINT NETWORK	12/4/2012	8,326,342
UNITED STATES	12/23/2008	12/343,445	ESTIMATING BANDWIDTH IN COMMUNICATION NETWORKS	8/9/2011	7,995,493
UNITED STATES	12/31/2008	12/347,201	FEMTO PERSONAL PROXY APPLICATION CLIENT		
UNITED STATES	12/31/2008	12/347,234	FEMTO PERSONAL POLICY SERVER	4/8/2014	8,693,987
UNITED STATES	1/7/2009	12/350,156	POWER CONTROL FOR REVERSE LINK	4/17/2012	8,160,631

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	5/18/2009	12/467,913	MULTI-CARRIER SYSTEM SELECTION	9/24/2013	8,542,707
JAPAN	5/17/2010	2012-511941	MULTI-CARRIER SYSTEM SELECTION	11/29/2013	5420069
SOUTH KOREA	5/17/2010	10-2011-7030037	MULTI-CARRIER SYSTEM SELECTION	2/14/2014	10-1365583
UNITED STATES	3/17/2009	12/405,641	IDENTIFYING HAND-OVER TARGETS	8/12/2014	8,805,371
UNITED STATES	6/9/2010	12/797,138	MOBILITY IN A WIRELESS ENTERPRISE NETWORK	2/26/2013	8,385,291
UNITED STATES	2/25/2013	13/776,427	MOBILITY IN A WIRELESS ENTERPRISE NETWORK	10/28/2014	8,873,512
UNITED STATES	6/30/2009	12/495,125	MOBILE AWARE BEACON	3/15/2011	7,907,571
UNITED STATES	10/7/2009	12/575,113	MITIGATING INTERFERENCE USING COOPERATIVE SCHEDULING	5/6/2014	8,718,697
UNITED STATES	11/30/2009	12/627,285	DETERMINING IF AN ACCESS TERMINAL IS AUTHORIZED TO USE AN ACCESS POINT	12/25/2012	8,340,636
UNITED STATES	5/31/2013	13/907,508	PROVIDING CIRCUIT SWITCHED SERVICE		
UNITED STATES	2/7/2013	13/762,283	RADIO ACCESS NETWORKS		
WIPO	2/6/2014	PCT/US2014/015137	RADIO ACCESS NETWORKS		
UNITED STATES	2/7/2013	13/762,284	RADIO ACCESS NETWORKS		

Country Name	Filed Date	Serial #	Title	Issue Date	Patent #
UNITED STATES	2/7/2013	13/762,292	RADIO ACCESS NETWORKS		
UNITED STATES	6/9/2015	14/734,311	RADIO ACCESS NETWORKS		
WIPO	6/9/2014	PCT/US2015/034829	RADIO ACCESS NETWORKS		
UNITED STATES	6/9/2014	62/009,653	RADIO ACCESS NETWORKS		
UNITED STATES	9/16/2014	62/051,212	RADIO ACCESS NETWORKS		