

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6447957

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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>        |
| AIRVANA LP                                                                                                                                                                                      | 10/01/2015                   |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                              |
| <b>Name:</b>                                                                                                                                                                                    | COMMSCOPE TECHNOLOGIES LLC   |
| <b>Street Address:</b>                                                                                                                                                                          | 1100 COMMSCOPE PLACE SE      |
| <b>City:</b>                                                                                                                                                                                    | HICKORY                      |
| <b>State/Country:</b>                                                                                                                                                                           | NORTH CAROLINA               |
| <b>Postal Code:</b>                                                                                                                                                                             | 28602                        |
| <b>PROPERTY NUMBERS Total: 2</b>                                                                                                                                                                |                              |
| <b>Property Type</b>                                                                                                                                                                            | <b>Number</b>                |
| <b>Application Number:</b>                                                                                                                                                                      | 17119889                     |
| <b>Application Number:</b>                                                                                                                                                                      | 17119870                     |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                              |
| <b>Fax Number:</b>                                                                                                                                                                              | (952)465-0771                |
| <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>Email:</b>                                                                                                                                                                                   | docketing@fogglaw.com        |
| <b>Correspondent Name:</b>                                                                                                                                                                      | FOGG & POWERS LLC            |
| <b>Address Line 1:</b>                                                                                                                                                                          | 4600 W 77TH STREET           |
| <b>Address Line 2:</b>                                                                                                                                                                          | SUITE 305                    |
| <b>Address Line 4:</b>                                                                                                                                                                          | MINNEAPOLIS, MINNESOTA 55435 |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | 100.1651US05 & US06          |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | EMILY J. RELLER              |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Emily J. Reller/            |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 12/14/2020                   |
| <b>Total Attachments: 10</b>                                                                                                                                                                    |                              |
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| source=Assignment Airvana LP to CommScope Technologies LLC (00945826xA42DA)#page3.tif                                                                                                           |                              |
| source=Assignment Airvana LP to CommScope Technologies LLC (00945826xA42DA)#page4.tif                                                                                                           |                              |
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source=Assignment Airvana LP to CommScope Technologies LLC (00945826xA42DA)#page10.tif

## 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.

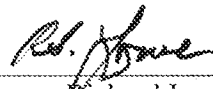
2. Further Assurances. Assignor agrees to sign all documents, including assignments, transfers and related powers of attorney, and take all further actions as reasonably requested by Assignee to effect, record, perfect or enforce the transfers set forth in this Agreement and ensure that all of Assignor’s right, title and interest in and to the Patents and all registrations and recordations 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**

| <b>Country Name</b> | <b>Filed Date</b> | <b>Serial #</b> | <b>Title</b>                                                                            | <b>Issue Date</b> | <b>Patent #</b> |
|---------------------|-------------------|-----------------|-----------------------------------------------------------------------------------------|-------------------|-----------------|
| 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 |            |          |