# 504173376 01/11/2017

# PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

### **CONVEYING PARTY DATA**

| Name           | Execution Date |
|----------------|----------------|
| PETER HOU      | 12/27/2016     |
| HAMAD ALSAWAHA | 12/29/2016     |
| THOMAS JACKSON | 12/27/2016     |
| BINGQIAN LU    | 12/22/2016     |
| YILIN MAO      | 12/27/2016     |

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| State/Country:     | rate/Country: MARYLAND                |  |
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## **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |
|---------------------|----------|--|
| Application Number: | 15395395 |  |

### **CORRESPONDENCE DATA**

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| DATE SIGNED:            | 01/11/2017     |

**Total Attachments: 1** 

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PATENT REEL: 040945 FRAME: 0829

504173376

| PATENT ASSIGNMENT   |  |  |  |  |  |
|---|--|--|--|--|--|
| Assignor(s):  | Peter HOU; Hamad AL  | L SAWAHA<br>SWAHA; Thomas JACKSON  | N; Bingqian LU; Yilin MAO  |  |  |
| Assignee:   | Hughes Network Systems, LLC<br>11717 Exploration Lane, Germantown, MD 20876  |  |  |  |  |
| Patent Appli  | cation(s):   |  |  |  |  |
| Title:  | LOW-COST RADIO FRI   | EQUENCY WAVEGUIDE DE   | VICES  |  |  |
| $\boxtimes$   | executed by the unde   | rsigned concurrently here  | with   |  |  |
|   | Application No(s):   | Fi   | ling Date:   |  |  |
|   | onsideration of good and<br>ove-named Assignors, he  |  | he receipt of which is hereby acknowledged,  |  |  |
| (1) the above are disclosed patent applic countries, but (3) all original and all foreignights of pricountries; are agrefor said important and all division priority to t | e-identified patent application(s); and cations, which have been ased on or claiming prioral and reissued patents to go countries from the Appority arising from the filled that the Assignee may rovements in its own national, continuing, substitute Application(s), or based | cation(s) ("the Application of (2) all divisional, continued or are subsequently filed rity to the Application(s), hat have been or are subsequention(s) or based on a fing of the Application(s) apply for and receive a pare; and that, to carry out, but at the expense of the sed on any and all of sais | ted States and all foreign countries) in and to: (s)"), including any and all improvements that uing, substitute, renewal, reissue and all other d in the United States and any and all foreign or based on any of said improvements; and sequently issued in the United States and any any of said improvements; and (4) any and all in the United States and any and all foreign patent or patents from the Application(s) and t in good faith the intent and purpose of this e Assignee) shall: execute the Application(s), other patent applications based on or claiming d improvements, and execute all associated |  |  |
| representati<br>and general<br>maintaining<br>and to the<br>Assignee (an<br>cove<br>assignment,   | ves) all known facts relatly assist the Assignee (a proper patent protection Application(s), and all application assigns a transmit with the Assigne grant, mortgage, license  | ating to the Application(s) and its successors, assign for the Application(s) are pplications for patents are and legal representatives), see (and its successors, or other agreement affers).   | since (and its successors, assigns and legal said improvements and the history thereof; is and legal representatives) in securing and and said improvements, and for vesting title in and all patents on said improvements, in the sand assigns and legal representatives) that no cting the rights and property herein conveyed at to convey the same as herein expressed is  |  |  |
| possessed by the Assignor(s).   |  |  |  |  |  |
| Date: _   | 2/27/2016  | Peter HOU:   | Att 6-   |  |  |
| Date:   | 2/29/2016  | ALSAWA <i>HA</i><br>Hamad <del>ALSWAH</del> A:   | Hamad Alsawaha   |  |  |
| Date:   | 12/27/16   | Thomas JACKSON:  |  |  |  |
| Date:   | 2/22/2016  | Bingqian LU:   | Binggian Lu  |  |  |
| Date:   | 12/27/2016   | Yilin MAO:   | Yelin Mao  |  |  |

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**PATENT REEL: 040945 FRAME: 0830**