

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4759986

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DORIN GHEORGHE VIOREL	08/18/2017
JENNIFER ANDREOLI-FANG	08/21/2017
NEEHARIKA ALLANKI	12/29/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CABLE TELEVISION LABORATORIES, INC
<b>Street Address:</b>	858 COAL CREEK CIRCLE
<b>City:</b>	LOUISVILLE
<b>State/Country:</b>	COLORADO
<b>Postal Code:</b>	80027
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15470272
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(314)621-2307
<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>	314-621-5070
<b>Email:</b>	uspatents@armstrongteasdale.com
<b>Correspondent Name:</b>	ARMSTRONG TEASDALE LLP
<b>Address Line 1:</b>	7700 FORSYTH BLVD.
<b>Address Line 2:</b>	SUITE 1800
<b>Address Line 4:</b>	ST. LOUIS, MISSOURI 63105
<b>ATTORNEY DOCKET NUMBER:</b>	60957
<b>NAME OF SUBMITTER:</b>	JOSH C. SNIDER
<b>SIGNATURE:</b>	/Josh C. Snider/
<b>DATE SIGNED:</b>	01/04/2018
<b>Total Attachments: 5</b>	
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WORLDWIDE ASSIGNMENT

WHEREAS, I,

**Dorin Gheorghe Viorel**, a citizen of the **UNITED STATES**, having a residence in **Erie, CO**

**Jennifer Andreoli-Fang**, a citizen of the **UNITED STATES**, having a residence in **Boulder, CO**

**Neeharika Allanki**, a citizen of the **UNITED STATES**, having a residence in **Boulder, CO**

(hereinafter "**ASSIGNORS**"), have made an invention entitled "**SYSTEMS AND METHODS FOR LTE ALLOCATION IN A SHARED UNLICENSED SPECTRUM**" as set forth and described in U.S. Application No. 15/470,272, filed March 27, 2017; International Application No. \_\_\_\_\_, filed \_\_\_\_\_; United States Provisional Application No. 62/313,412, filed March 25, 2016; and

WHEREAS, **CABLE TELEVISION LABORATORIES, INC.** (hereinafter "**ASSIGNEE**"), having its principal place of business at **858 COAL CREEK CIRCLE, LOUISVILLE, CO 80027**, is desirous of acquiring the whole right, title and interest in and to said application for Letters Patent, and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that I, the said **ASSIGNORS**, for and in consideration of valuable considerations unto us moving from said **ASSIGNEE**, at or before the ensealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to the said invention entitled "**SYSTEMS AND METHODS FOR LTE ALLOCATION IN A SHARED UNLICENSED SPECTRUM**" and any and all improvements thereto, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, and in and to any other applications based in whole or in part on any of the foregoing, **TO HAVE AND TO HOLD THE SAME** to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND I, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND I, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that I have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that I, my executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said **ASSIGNEE**, its successors and assigns, may be required or necessary more effectively to secure to and vest in said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that I will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

AND I, the said **ASSIGNORS**, hereby authorize and request the attorneys of **ARMSTRONG TEASDALE LLP** to insert in the spaces provided above, the title of the invention, filing date, application number, and attorney's docket number of said application when known.

IN WITNESS WHEREOF, I, the said ASSIGNOR, have executed this Assignment this  
18<sup>th</sup> day of August, 2017.

*D.V.*  
**Dorin Gheorghe Viorel**

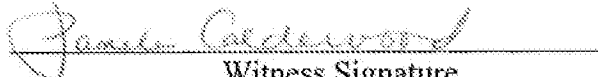
*Janet Calderwood*  
Witness Signature

Janet Calderwood  
Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR, have executed this Assignment this

21 day of August, 2017.

  
\_\_\_\_\_  
**Jennifer Andreoli-Fang**

  
\_\_\_\_\_  
Witness Signature

Pamela Calderwood  
\_\_\_\_\_  
Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR, have executed this Assignment this  
day of December 29, 2017 at 10:46 AM MST

DocuSigned by:

*Melanka Allanki*

Melanka Allanki

\_\_\_\_\_  
Witness Signature

\_\_\_\_\_  
Witness Name