

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5354481

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	PETER PAUL SMYTH	11/13/2018
	LIN CHENG	11/13/2018
	JIM O'CONNOR	11/13/2018
	ERIC WINKELMAN	11/13/2018
	THOMAS H. WILLIAMS	11/13/2018
	BELAL HAMZEH	11/13/2018
	STEVE ARENDT	11/13/2018
RECEIVING PARTY DATA		
Name:	CABLE TELEVISION LABORATORIES, INC	
Street Address:	858 COAL CREEK CIRCLE	
City:	LOUISVILLE	
State/Country:	COLORADO	
Postal Code:	80027	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16264345	
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Phone:	314-621-5070	
Email:	uspatents@armstrongteasdale.com	
Correspondent Name:	ARMSTRONG TEASDALE LLP (CABLE TELEVISION	
Address Line 1:	7700 FORSYTH BLVD.	
Address Line 2:	SUITE 1800	
Address Line 4:	ST. LOUIS, MISSOURI 63105	
ATTORNEY DOCKET NUMBER:	61025CIP1CON1	
NAME OF SUBMITTER:	JOSH C. SNIDER	
SIGNATURE:	/Josh C. Snider/	
DATE SIGNED:	01/31/2019	

PATENT

Total Attachments: 4

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WORLDWIDE ASSIGNMENT

WHEREAS, WE,

Peter Paul Smyth, a citizen of the **UNITED KINGDOM**, having a residence in **Newbourne, UK**

Lin Cheng, a citizen of **CHINA**, having a residence in **Superior, CO**

Jim O'Connor, a citizen of the **UNITED STATES**, having a residence in **Idaho Springs, CO**

Eric Winkelman, a citizen of the **UNITED STATES**, having a residence in **Boulder, CO**

Thomas H. Williams, a citizen of the **UNITED STATES**, having a residence in **Longmont, CO**

Belal Hamzeh, a citizen of the **UNITED STATES**, having a residence in **Boulder, CO**

Steve Arendt, a citizen of the **UNITED STATES**, having a residence in **Longmont, CO**

(hereinafter "**ASSIGNORS**"), have made a contribution to an invention entitled "**SYSTEMS AND METHODS FOR INCREASED BEACON DETECTION RANGE**" as set forth and described in U.S. Application No. 16/142,933, filed September 26, 2018; This application is a continuation in part of U.S. Application Ser. No. 15/809,658, filed November 10, 2017, which second prior application claims the benefit of and priority to U.S. Provisional Patent Application Ser. No. 62/420,124, filed November 10, 2016. This application further claims the benefit of and priority to U.S. Provisional Patent Application Ser. No. 62/563,185, filed September 26, 2017, U.S. Provisional Patent Application Ser. No. 62/564,115, filed September 27, 2017, U.S. Provisional Patent Application Ser. No. 62/609,071, filed December 21, 2017, U.S. Provisional Patent Application Ser. No. 62/617,882, filed January 16, 2018, U.S. Provisional Patent Application Ser. No. 62/621,354, filed January 24, 2018, U.S. Provisional Patent Application Ser. No. 62/621,673, filed January 25, 2018, U.S. Provisional Patent Application Ser. No. 62/623,923, filed January 30, 2018, and U.S. Provisional Patent Application Ser. No. 62/682,306, filed June 8, 2018.

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;

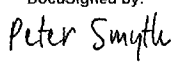
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that we, the said **ASSIGNORS**, for and in consideration of valuable considerations unto us moving from said **ASSIGNEE**, at or before the ensealing and delivery of these presents, the receipt and sufficiency of which is hereby acknowledged, 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 INCREASED BEACON DETECTION RANGE**” 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 we, 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 we, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we 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 we, our 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 we 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 we, 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.

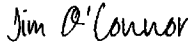
IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 10:35 AM MST

DocuSigned by:

829F51E7025147C...
Peter Paul Smyth

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 9:56 AM MST

DocuSigned by:

E9EEC02CA4364D4...
Lin Cheng

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 6:32 PM MST


DocuSigned by:

1A272F6A533847C...
Jim O'Connor

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 9:50 AM MST

DocuSigned by:

A3F712B81C3E46D...
Eric Winkelman

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 9:48 AM MST

DocuSigned by:

71E74AD9300C409...
Thomas H. Williams

61025CIP1

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 9:33 AM PST

DocuSigned by:

Belal Hamzeh

9D274457E0A840D...

Belal Hamzeh

IN WITNESS WHEREOF, I, the said **ASSIGNOR**, have executed this Assignment on
November 13, 2018 | 9:44 AM MST

DocuSigned by:

Steve Arendt

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Steve Arendt