

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6315441

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DORIN GHEORGHE VIOREL	11/14/2017
JENNIFER ANDREOLI-FANG	11/20/2017
BELAL HAMZEH	11/14/2017
JOSH REDMORE	11/17/2017
CAREY SONSINO	11/17/2017
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:	16876176
CORRESPONDENCE DATA	
Fax Number:	(303)661-9199
<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:	3036619100
Email:	p.calderwood@cablelabs.com
Correspondent Name:	CABLE TELEVISION LABORATORIES, INC.
Address Line 1:	858 COAL CREEK CIRCLE
Address Line 4:	LOUISVILLE, COLORADO 80027
ATTORNEY DOCKET NUMBER:	60947CON1DIV1
NAME OF SUBMITTER:	PAMELA CALDERWOOD
SIGNATURE:	/Pamela Calderwood/
DATE SIGNED:	09/24/2020
Total Attachments: 8	
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WORLDWIDE ASSIGNMENT

WHEREAS, I,

DORIN GHEORGHE VIOREL, a citizen of **Canada**, having a residence in **Erie, Colorado**

JENNIFER ANDREOLI-FANG, a citizen of the **United States**, having a residence in **Boulder, Colorado**

BELAL HAMZEH, a citizen of the **United States**, having a residence in **Westminster, Colorado**

JOSH REDMORE, a citizen of the **United States**, having a residence in **Longmont, Colorado**

CAREY SONSINO, a citizen of the **United States**, having a residence in **Golden, Colorado**

(hereinafter "ASSIGNORS"), have made an invention entitled "**SYSTEMS AND METHODS FOR LTE-U DETECTION USING PHY LAYER PROCESSING**" as set forth and described in U.S. Application No. 15/439,814, filed February 22, 2017; International Application No. _____, filed _____; United States Provisional Application No. 62/298,037, filed February 22, 2016 and United States Provisional Application No. 62/307,199, filed March 11, 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 enrolling 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-U DETECTION USING PHY LAYER PROCESSING**" 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
14 day of November, 2017.

DV
DORIN GHEORGHE VIOLREL

Pamela Calderwood
Witness Signature
Pamela Calderwood
Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
20 day of November, 2017.



JENNIFER ANDREOLI-FANG

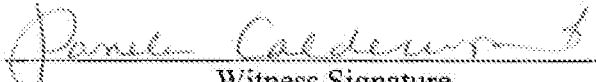
Jane Calderwood
Witness Signature

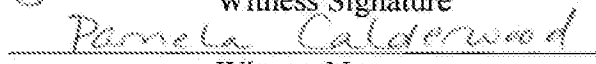
Pamela Calderwood
Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
14th day of November, 2017.



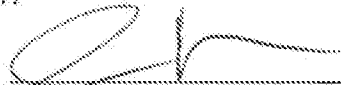
BELAL HAMZEH



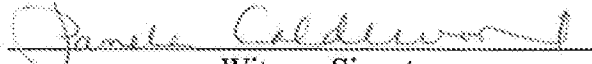
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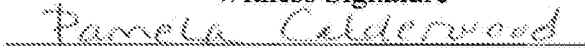
IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
17 day of November, 2017.



JOSH REDMORE



Witness Signature

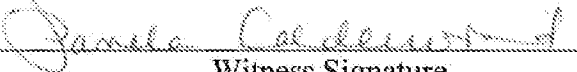


Witness Name

IN WITNESS WHEREOF, I, the said ASSIGNOR have executed this Assignment this
17 day of NOVEMBER, 2017.



CAREY SONSINO



Witness Signature
Pamela Calderwood

Witness Name