506756186 07/08/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6803003

		NEW ASSIGNMENT	
NATURE OF CONVEYAN	CE:	ASSIGNMENT	
CONVEYING PARTY DA	ТА		
		Name	Execution Date
ZHENSHENG JIA			03/13/2019
LUIS ALBERTO CAMPOS			03/13/2019
JING WANG			03/14/2019
MU XU	03/13/2019		
HAIPENG ZHANG	03/13/2019		
CURTIS DEAN KNITTLE			03/13/2019
RECEIVING PARTY DAT	A		
Name:	CABLE TELEVISION LABORATORIES, INC.		
Street Address:	858 COAL CREEK CIRCLE		
City:	LOUISVILLE		
State/Country:	COLORADO		
Postal Code:	80027		
PROPERTY NUMBERS 1	Fotal: 1		
Property Type		Number	
	1	Number 17370592	
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WORLDWIDE ASSIGNMENT

WHEREAS, WE,

Zhensheng Jia, a citizen of CHINA, having a residence in Superior, CO

Luis Alberto Campos, a citizen of the UNITED STATES, having a residence in Superior, CO

Jing Wang, a citizen of CHINA, having a residence in Broomfield, CO

Mu Xu, a citizen of CHINA, having a residence in Broomfield, CO

Haipeng Zhang, a citizen of CHINA, having a residence in Broomfield, CO

Curtis Dean Knittle, a citizen of the UNITED STATES, having a residence in Superior, CO

(hereinafter "ASSIGNORS"), have made a contribution to an invention entitled "SYSTEMS AND METHODS FOR FULL DUPLEX COHERENT OPTICS" as set forth and described in U.S. Application No. <u>16/274,152</u> filed <u>2019-02-12</u> which is a continuation in part of U.S. Application No. <u>16/198,396</u> filed <u>2018-11-21</u>, which prior application claims the benefit of and priority to U.S. Provisional Patent Application No. <u>62/589,121</u> filed <u>2017-11-21</u> and to U.S. Provisional Patent Application No. <u>62/636,249</u> filed <u>2018-02-28</u>. The present application also claims the benefit of and priority to U.S. Provisional Patent Application No. <u>62/629,555</u> filed <u>2018-02-12</u> 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 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 FULL DUPLEX COHERENT OPTICS**" 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;

PATENT REEL: 056794 FRAME: 0398 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 March 13, 2019 | 10:05 AM MDT

145A1EAE360419.

Zhensheng Jia

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

March 13, 2019 | 8:59 AM PDT

DocuSigned by: uis alberto (ampos F122533F5D96495...

Luis Alberto Campos

PATENT REEL: 056794 FRAME: 0399 IN WITNESS WHEREOF, I, the said ASSIGNOR, have executed this Assignment on

March 14, 2019 | 5:37 AM PDT

Docus	Signed by:
Jin	Warg
	U U
~ 607E7	AD42CC24CE

Jing Wang

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

March 13, 2019 | 11:01 AM MDT

DocuSigned by: Mu Xu 2AFAC71B4479461..

Mu Xu

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

March 13, 2019 | 9:38 AM MDT

DocuSigned by: Haipeng Eliang 11DD477DEAE54EB...

Haipeng Zhang

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

March 13, 2019 | 8:14 AM PDT

DocuSigned by: Curtis Dean Enittle 106074COA90F40D...

Curtis Dean Knittle