

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JUNWEN ZHANG | 02/01/2021 |
| MU XU | 02/01/2021 |
| HAIPENG ZHANG | 02/01/2021 |
| ZHENSHENG JIA | 02/01/2021 |
| LUIS ALBERTO CAMPOS | 02/01/2021 |
| 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: 2 | |
| Property Type | Number |
| Application Number: | 62966660 |
| Application Number: | 17161169 |
| 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: | 61388NP |
| NAME OF SUBMITTER: | PAMELA CALDERWOOD |
| SIGNATURE: | /Pamela Calderwood/ |
| DATE SIGNED: | 02/10/2021 |
| Total Attachments: 3 | |

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ASSIGNMENT

WHEREAS, I,

JUNWEN ZHANG, of Broomfield, Colorado

MU XU, of Broomfield, Colorado,

HAIPENG ZHANG, of Broomfield, Colorado,

ZHENSHENG JIA, of Superior, Colorado, and

LUIS ALBERTO CAMPOS, of Superior, Colorado,

(hereinafter individually an "ASSIGNOR" and collectively "ASSIGNORS"), have made an invention entitled Systems and Methods for Data Frame and Data Symbol Synchronization in a Communication Network (hereinafter "INVENTION") as set forth and described in the patent application(s) (hereinafter "LISTED APPLICATIONS") listed in TABLE 1 below;

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| U.S. Provisional Patent Application Serial No. 62/966,660, filed on January 28, 2020 |
| U.S. Patent Application Serial No. 17/161,169, filed on January 28, 2021 |

TABLE 1

WHEREAS, **CABLE TELEVISION LABORATORIES, INC.** (hereinafter "ASSIGNEE"), having its principal place of business at 858 Coal Creek Circle, Louisville, Colorado, 80027, desires to acquire the whole right, title, and interest in and to the LISTED APPLICATIONS and all rights associated therewith;

NOW, THEREFORE, in consideration of my contractual and other legal obligations, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, be it known that I, a said ASSIGNOR, have sold, assigned, transferred, and conveyed, and by these presents do sell, assign, transfer, and convey, to the ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to the following: (1) the INVENTION, (2) the LISTED APPLICATIONS, (3) any division, continuation, or subsequent application of any of the LISTED APPLICATIONS or application claiming priority to any of the LISTED APPLICATIONS, (4) any Letters Patent of the United States which may be issued on any of the LISTED APPLICATIONS or any other of the aforesaid patent applications, (5) any reissues of said Letters Patent of the United States, (6) any patent applications filed in foreign countries for the INVENTION, including any patent applications filed directly in said foreign countries and any patent applications filed in said foreign countries via the Patent Cooperation Treaty or other intellectual property agreement, (7) any Letters Patent which may be issued on said patent applications filed in foreign countries, (8) all rights to claim priority to any of the aforesaid patent applications, (9) all rights to enforce any of the aforesaid patent applications or Letters Patent, including but not limited to the right to sue for infringement of any of the aforesaid patent applications or Letters Patent, and (10) any other patent 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 aforesaid Letters Patent may be granted;

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

AND I, said ASSIGNOR, for aforesaid consideration, 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 the ASSIGNEE or its counsel, may be required or necessary to secure to and vest in the ASSIGNEE, its successors, and assigns, the entire right, title, and interest in and to the INVENTION and patent applications, Letters Patents, 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 INVENTION.

I, said ASSIGNOR, have executed this Assignment on February 1, 2021 | 9:30 PM MST

DocuSigned by:
Junwen Zhang
7C98B9BE2AF547A...
JUNWEN ZHANG

I, said ASSIGNOR, have executed this Assignment on February 1, 2021 | 11:06 AM MST

DocuSigned by:
Mu Xu
2AFAC71B4479461...
MU XU

I, said ASSIGNOR, have executed this Assignment on February 1, 2021 | 11:35 AM MST

DocuSigned by:
Haipeng Zhang
11DD477DEAE54EB...
HAIPENG ZHANG

I, said ASSIGNOR, have executed this Assignment on February 1, 2021 | 11:07 AM MST

DocuSigned by:

E145A1EAE360419...
ZHENSHENG JIA

I, said ASSIGNOR, have executed this Assignment on February 1, 2021 | 12:11 PM PST

DocuSigned by:

F122533F5D96495...
LUIS ALBERTO CAMPOS