

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| WILLIAM R. POWER | 05/06/2020 |
| RECEIVING PARTY DATA | |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16103575 |
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| ATTORNEY DOCKET NUMBER: | 0637-US-U1 |
| NAME OF SUBMITTER: | DAVID D. WIER |
| SIGNATURE: | /DDW/ |
| DATE SIGNED: | 08/13/2020 |
| Total Attachments: 3 | |
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| source=0637-US-U1 US Assignment#page2.tif | |
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ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

Assignors/Inventors:

Name of Assignor: **William R. Power**
City and State of Residence: **Boulder, CO**

Assignee:

Level 3 Communications, LLC
1025 Eldorado Boulevard
Broomfield, Colorado 80021

PATENT APPLICATIONS SUBJECT TO THE ASSIGNMENT (the "Applications"):

Provisional Patent Application No.: **62/545,336**
Filing Date: **August 14, 2017**
Title: **SYSTEM AND METHOD FOR METRO MID-TIER MAPPING IN
A CONTENT DELIVERY NETWORK**
Attorney Docket No. **0637-US-P1**

Nonprovisional Patent Application No.: **16/103,575**
Filing Date: **August 14, 2018**
Title: **SYSTEM AND METHOD FOR METRO MID-TIER MAPPING IN
A CONTENT DELIVERY NETWORK**
Attorney Docket No. **0637-US-U1**

International Patent Application No.: **PCT/US2018/046729**
Filing Date: **August 14, 2018**
Title: **SYSTEM AND METHOD FOR METRO MID-TIER MAPPING IN
A CONTENT DELIVERY NETWORK**
Attorney Docket No. **0637-WO-01**

WHEREAS, Assignors have invented certain new and useful inventions (the "Invention") for which the Applications have been prepared for filing with the United States Patent and Trademark Office.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is acknowledged, Assignors have agreed to assign and transfer and do hereby assign and transfer unto Assignee, its successors and assigns, the entire right, title, and interest in and to the Invention and the Applications, including any provisional or non-provisional application to which the Applications claim priority, in and to any United States of America and foreign applications that claim priority to the Applications, any divisional or continuation (in whole or in part) of the Applications, and in and to any and all improvements in the Invention made by

Assignors (provided any such improvement is made during, or within one year after the termination of the employment of Assignors by Assignee), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in the United States of America and all foreign countries in its own name and any priority rights for such United States of America and foreign applications to which such applications or Assignors are entitled under international conventions, treaties, or otherwise which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, and any and all rights to collect past damages for infringement of any and all Letters Patent of the United States and countries and regions foreign thereto which may be published, to be held and enjoyed as fully and exclusively as they would have been by the Assignors had this assignment and transfer not been made;

Assignors further agree for Assignors and for Assignors' heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignors lawfully may, that may be deemed necessary by said Assignee, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid to obtain to maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

Assignors hereby authorize Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the title, application number and filing date of the Application once known;

Assignors hereby acknowledge that Assignee's internal and external counsel have represented only Assignee and will continue to represent only Assignee with respect to the Invention;

Assignors hereby acknowledge an obligation of assignment and transfer of the Invention and Application to Assignee at the time the Invention was made; and

Assignors hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the Applications, to Assignee, as the assignee of the entire right, title, and interest therein.

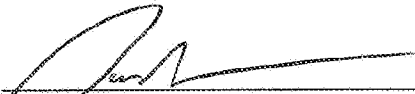
Assignors and Assignee hereby agree that this assignment is governed by the laws of the state of Colorado of the United States of America and subject to the non-exclusive jurisdiction of the courts of the state of Colorado of the United States of America.

IN WITNESS WHEREOF, Assignors hereunto have executed this Assignment upon the date indicated below.

By: William Power
William R. Power

Dated: 5/6/2020

IN WITNESS WHEREOF, the Assignee hereunto has executed this Assignment upon the date indicated below.

By: 
David Wier duly authorized for and on behalf of
Level 3 Communications, LLC

Dated: 5/7/2020

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