

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4600452

| | | |
|---|------------------------------|-----------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | WILLIAM C. CROWDER | 01/11/2012 |
| RECEIVING PARTY DATA | | |
| Name: | LEVEL 3 COMMUNICATIONS, LLC | |
| Street Address: | 1025 ELDORADO BLVD. | |
| City: | BROOMFIELD | |
| State/Country: | COLORADO | |
| Postal Code: | 80021 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 15706656 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (720)888-5619 | |
| <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> | | |
| Email: | kathleen.mcinnish@level3.com | |
| Correspondent Name: | JONATHAN C. SIEKMANN | |
| Address Line 1: | 1025 ELDORADO BLVD. | |
| Address Line 4: | BROOMFIELD, COLORADO 80021 | |
| ATTORNEY DOCKET NUMBER: | 0234-US-US-C1 | |
| NAME OF SUBMITTER: | JONATHAN C. SIEKMANN | |
| SIGNATURE: | /Jonathan C. Siekmann/ | |
| DATE SIGNED: | 09/19/2017 | |
| Total Attachments: 5 | | |
| source=Crowder_234USU2#page1.tif | | |
| source=Crowder_234USU2#page2.tif | | |
| source=Crowder_234USU2#page3.tif | | |
| source=Crowder_234USU2#page4.tif | | |
| source=Crowder_234USU2#page5.tif | | |

ASSIGNMENT

WHEREAS, we, William C. **CROWDER**, residing at 68 Marine View Drive, Camarillo, California 93010-1642, U.S.A.; David **FULLAGAR**, residing at 775 Cherryvale Road, Boulder, Colorado 80303-2910, U.S.A.; and Jeffrey G. **KOLLER**, residing at 3549 Glen Abbey Lane, Oxnard, California 93036-6327, U.S.A., (hereinafter, individually and collectively the "Assignor"), have invented certain new and useful inventions for which a non-provisional patent application for Letters Patent has been prepared and filed with the United States Patent and Trademark Office on Dec. 21, 2012, receiving Application No. 13/1724,102, entitled "**MEDIA RESOURCE STORAGE AND MANAGEMENT**," and having Attorney Docket No. **0234-US-II**.

NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, Assignor has agreed to assign and transfer and does hereby assign and transfer unto **Level 3 Communications, LLC** ("Assignee"), a limited liability company organized and existing under the laws of the State of Delaware, having its principal office at 1025 Eldorado Boulevard, Broomfield, Colorado 80021, its successors and assigns, the entire right, title, and interest in and to said invention and applications, and in and to any application from which said application claims priority (including, but not limited to, application nos. 61/582,303, 61/172,638, and 12/767,338), any divisional or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by Assignor (provided any such improvement is made during, or within one year after the termination, of the employment by said Company of Assignor), 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 foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications 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, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

Assignor further agrees for Assignor and for Assignor's heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as Assignor lawfully may, that may be deemed necessary by said Company, 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;

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

Assignor hereby acknowledges that Assignee's internal and external counsel have represented only Assignee and will continue to represent only Assignee with respect to this invention;

Assignor hereby acknowledges an obligation of assignment and transfer of this invention to Assignee at the time the invention was made; and

Assignor hereby authorizes and requests the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the assignee of the entire right, title, and interest therein.

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

STATE OF CALIFORNIA)
CITY OF THOUSAND OAKS) ss.
COUNTY OF VENTURA)

By: William C. Crowder
William C. CROWDER

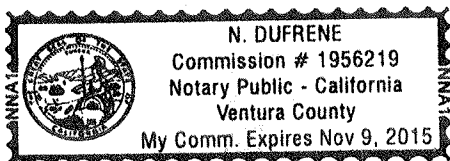
Dated: 1/11/12

Before me, a Notary Public in and for said County and State, personally appeared William C. **CROWDER**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this 11 day of JAN, 2012

[Signature]
Notary Public

My Commission Expires: 11-9-2015



STATE OF COLORADO)
CITY OF) ss.
COUNTY OF)

By: _____
David **FULLAGAR**

Dated: _____

Before me, a Notary Public in and for said County and State, personally appeared David **FULLAGAR**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this ____ day of _____, 20__.

Notary Public

My Commission Expires: _____

STATE OF CALIFORNIA)
CITY OF) ss.
COUNTY OF)

By: _____
Jeffrey G. KOLLER

Dated: _____

Before me, a Notary Public in and for said County and State, personally appeared Jeffrey G. KOLLER, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and considerations therein expressed.

Given under my hand and seal of office this ____ day of _____, 20__.

Notary Public

My Commission Expires: _____

ACCEPTANCE DECLARATION

Assignee hereby agrees to and accepts the above-mentioned Assignment from Assignor.

ASSIGNEE: Level 3 Communications, LLC

Signature: _____

Date: _____

Name & Title (printed): _____

DAVID D. WEBB, VICE PRESIDENT