

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4718050

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|---|------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |
| <b>CONVEYING PARTY DATA</b>   |                              |
| <b>Name</b>   | <b>Execution Date</b>        |
| KESHAVA BERG  | 11/06/2013                   |
| BRAD BERNAY DOCTOR  | 11/07/2013                   |
| TAYLOR FRALEY   | 11/02/2013                   |
| DANIEL JOSEPH ROMERO  | 11/07/2013                   |
| <b>RECEIVING PARTY DATA</b>   |                              |
| <b>Name:</b>  | LEVEL 3 COMMUNICATIONS, LLC  |
| <b>Street Address:</b>  | 1025 ELDORADO BLVD.          |
| <b>City:</b>  | BROOMFIELD                   |
| <b>State/Country:</b>   | COLORADO                     |
| <b>Postal Code:</b>   | 80021                        |
| <b>PROPERTY NUMBERS Total: 1</b>  |                              |
| <b>Property Type</b>  | <b>Number</b>                |
| <b>Application Number:</b>  | 15831154                     |
| <b>CORRESPONDENCE DATA</b>  |                              |
| <b>Fax Number:</b>  | (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> |                              |
| <b>Email:</b>   | kathleen.mcinnish@level3.com |
| <b>Correspondent Name:</b>  | LEVEL 3 COMMUNICATIONS, LLC  |
| <b>Address Line 1:</b>  | 1025 ELDORADO BLVD.          |
| <b>Address Line 4:</b>  | BROOMFIELD, COLORADO 80021   |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 0464-US-C3                   |
| <b>NAME OF SUBMITTER:</b>   | JONATHAN C. SIEKMANN         |
| <b>SIGNATURE:</b>   | /Jonathan C. Siekmann/       |
| <b>DATE SIGNED:</b>   | 12/05/2017                   |
| <b>Total Attachments: 5</b>   |                              |
| source=464US01_Assignment#page1.tif   |                              |
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## ASSIGNMENT

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WHEREAS, we, Keshava Berg, residing at 1014 Artemis Circle, Lafayette, CO 80026 USA, Brad Bernay Doctor, residing at 30173 Spruce Canyon Drive, Golden, CO 80403 USA, Taylor Fraley, residing at 1126 S. Davenport Ct., Erie, CO 80516 USA, Daniel Joseph Romero, residing at 6848 Zenobia Street, #4, Westminster, CO 80030 USA, and Brett Wentworth, residing at 2507 W. 133<sup>rd</sup> Cir., Broomfield, CO 80020 USA (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 for filing with the United States Patent and Trademark Office having application no. 14/089,285 filed November 25, 2013, entitled "SYSTEM AND METHOD FOR A SECURITY ASSET MANAGER," and having Attorney Docket No. **0464-US-01** (the "Application").

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency 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 the Application, including any provisional application to which said Application claims priority, and in and to any United States of America and foreign applications that claims priority to the Application, 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 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 the Assignor 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 title, application number and filing date of the 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.

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

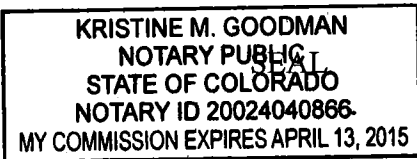
By:   
Keshava Berg

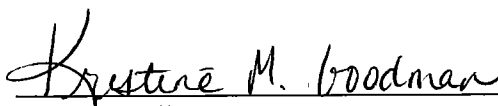
Dated: 11/6/13

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

Before me, a Notary Public in and for said County and State, personally appeared Keshava Berg, 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 6<sup>th</sup> day of November, 2013.



  
Notary Public  
My Commission Expires: 4/13/15

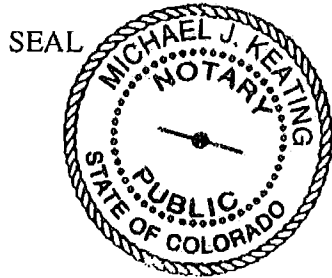
By: [Signature]  
Brad Bernay Doctor

Dated: 11-7-13

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

Before me, a Notary Public in and for said County and State, personally appeared Kevin Brad Bernay Doctor, 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 7<sup>th</sup> day of November, 2013.



[Signature]  
Notary Public  
My Commission Expires: 11-1-14

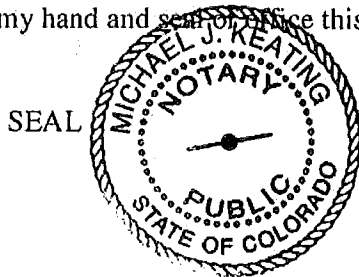
By: [Signature]  
Taylor Fraley

Dated: 11-7-2013

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

Before me, a Notary Public in and for said County and State, personally appeared Taylor Fraley, 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 7<sup>th</sup> day of November, 2013.



[Signature]  
Notary Public  
My Commission Expires: 11-1-14

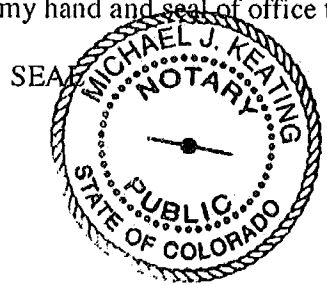
By: *DJR*  
Daniel Joseph Romero

Dated: 11-7-2013

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

Before me, a Notary Public in and for said County and State, personally appeared Daniel Joseph Romero, 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 7<sup>th</sup> day of November, 2013.



*Michael Keating*  
Notary Public  
My Commission Expires: 11-1-14

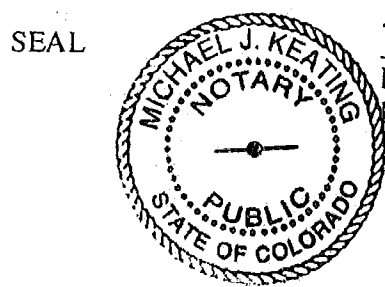
By: *Brett Wentworth*  
Brett Wentworth

Dated: 11-7-2013

STATE OF )  
CITY OF ) ss.  
COUNTY OF )

Before me, a Notary Public in and for said County and State, personally appeared Brett Wentworth, 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 7<sup>th</sup> day of November, 2013.



*Michael Keating*  
Notary Public  
My Commission Expires: 11-1-14

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

By: [Signature]  
David Wier/duly authorised for and on behalf of  
Level 3 Communications, LLC  
Dated: 11/18/13

STATE OF (Colorado)  
CITY OF Broomfield ) ss.  
COUNTY OF Broomfield

Before me, a Notary Public in and for said County and State, personally appeared David Wier, 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 18 day of November, 2013.

SEAL  
JENNIFER LOMELI  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID 2006404452  
MY COMMISSION EXPIRES 11/16/2017

[Signature]  
Notary Public )  
My Commission Expires: 11/16/17