

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5469949

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TROY KAU	01/22/2007
GREG BERNHARDT	01/22/2007
RECEIVING PARTY DATA	
Name:	LEVEL 3 COMMUNICATIONS, INC.
Street Address:	1025 ELDORADO BLVD.
City:	BROOMFIELD
State/Country:	COLORADO
Postal Code:	80021
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16376793
CORRESPONDENCE DATA	
Fax Number:	
<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:	patent.docketing@level3.com
Correspondent Name:	LEVEL 3 COMMUNICATIONS, LLC
Address Line 1:	1025 ELDORADO BLVD.
Address Line 4:	BROOMFIELD, COLORADO 80021
ATTORNEY DOCKET NUMBER:	0052-US-C4
NAME OF SUBMITTER:	JONATHAN C. SIEKMANN
SIGNATURE:	/JCS/
DATE SIGNED:	04/11/2019
Total Attachments: 3	
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source=Kau_Bernhardt_assn#page3.tif	

ASSIGNMENT

WHEREAS, we, **Troy Kau**, residing at 9465 West 77th Drive, Arvada, Colorado 80005 and **Greg Bernhardt**, RESIDING AT 2855 Rock Creek Circle, #238, Superior Colorado 80027, together with Joshua D. Voigt, Christopher T. Coston, Robert J. Feuerstein, Daniel Youngblood, and Dan Rosenstock, have invented a certain new and useful invention entitled "**SYSTEMS AND METHODS FOR DISCOVERING NETWORK TOPOLOGY**" for which an application for Letters Patent of the United States has been prepared and filed on October 26, 2005, receiving Serial No. 11/259,448, and further identified as Attorney File No. **74120-316804**;

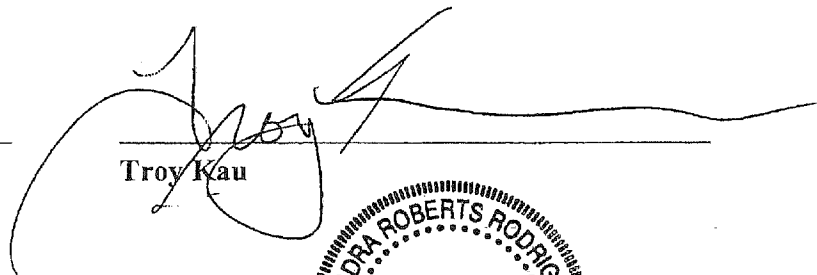
NOW THEREFORE, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto **Level 3 Communications, Inc.** ("Company"), a corporation a corporation organized and existing under the laws of 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 application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by said Company of whichever of us, solely or jointly with one or more others, has made the same), 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 us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we 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 and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries;

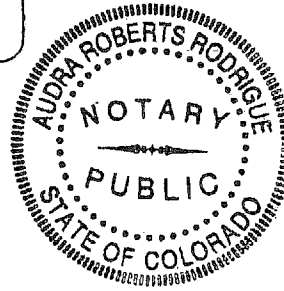
And we do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of said applications, to said Company, as the assignee of the entire right, title, and interest therein.

IN WITNESS WHEREOF, we have hereunto signed our names on the days and years set forth below:

Date: 1/22/2007

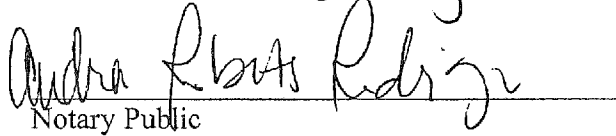

Troy Kau

STATE OF Colorado)
COUNTY OF Broomfield) ss.



Before me, a Notary Public in and for said County and State, personally appeared **Troy Kau**, 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.

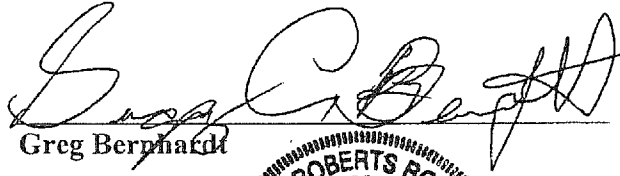
Given under my hand and seal of office this 22nd day of January, 2007. *JARR*

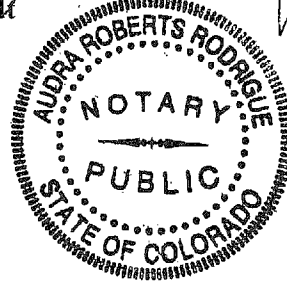

Notary Public

My Commission Expires: March 11, 2010

Atty. Docket No.: 74120-316804

Date: 1/22/07

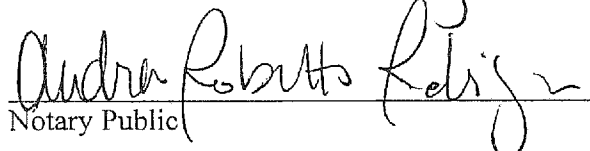

Greg Bernhardt



STATE OF Colorado)
COUNTY OF Broomfield) ss.

Before me, a Notary Public in and for said County and State, personally appeared **Greg Bernhardt**, 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 22nd day of January, 2007. *all*


Notary Public

My Commission Expires: March 14, 2010