505027345 07/30/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LAWRENCE W. GOWIN	07/31/2017
WILLIAM HOPKINS	07/27/2017

RECEIVING PARTY DATA

Name:	LEVEL 3 COMMUNICATIONS, LLC	
Street Address:	1025 ELDORADO BOULEVARD	
City:	BROOMFIELD	
State/Country:	COLORADO	
Postal Code:	80021	

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	62526485
Application Number:	16020681
PCT Number:	US2018039836

CORRESPONDENCE DATA

Fax Number:

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.

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ATTORNEY DOCKET NUMBER:	0625-US-U1	
NAME OF SUBMITTER:	JANAE ALLABASTRO	
SIGNATURE: /Janae Allabastro for Gregory P. Durbin/		
DATE SIGNED:	07/30/2018	

Total Attachments: 4

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PATENT 505027345 REEL: 046505 FRAME: 0082

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

Assignor/Inventor:

Name of Assignor: Lawrence W. Gowin
City and State of Residence: Westminster, CO

Name of Assignor: William Hopkins
City and State of Residence: Brighton, CO

Assignee:

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

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

Provisional Patent Application No.: 62/526,485

Filing Date: June 29, 2017

Title: STREAMING SERVER STATISTICS AND PREDICTIVE MITIGATION

Attorney Docket No. 0625-US-P1

Nonprovisional Patent Application No.: 16/020.681

Filing Date: June 27, 2018

Title: STREAMING SERVER STATISTICS AND PREDICTIVE MITIGATION

Attorney Docket No. 0625-US-U1

WHEREAS, the Assignor identified above has invented certain new and useful inventions for which the patent applications for Letters Patent identified above has 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, Assignor has agreed to assign and transfer and does hereby assign and transfer unto the Assignee identified above, its successors and assigns, the entire right, title, and interest in and to said invention and the Applications, including any provisional or non-provisional application to which said Application claims priority, including but not limited to U.S. patent application no. 62/526,485, and 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 said Applications, 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

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PATENT REEL: 046505 FRAME: 0083 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 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 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;

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 and Application 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 Assignee, 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.

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IN WITNESS WHEREOF, the Assignothe date indicated below.	or hereunto has executed this Assignment upon By:
	/ Yawrence W. Gowin Dated:
	By: William Hopkins
	Dated:
IN WITNESS WHEREOF, the Assigne the date indicated below.	By: David Wier duly authorized for and on behalf of Level 3 Communications, LLC Dated:

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

		By: Lawrence W. Gowin
		Dated:
		By: William Hopkins
		Dated: 7/27/2017
IN WITNESS WHEREOF, e indicated below.	the Assignee	hereunto has executed this Assignment upon
The first transmission		By: //ww//w/
		David Wier duly authorized for and on behalf of Level 3 Communications, LLC
		Dated: 7/24/18

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the date indicated below.