

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6054823

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREW J. BROADWORTH	03/25/2020
MATTHEW MCCARTHY	04/09/2020
<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>
Application Number:	16844710
<b>CORRESPONDENCE DATA</b>	
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<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>Phone:</b>	303-268-0066
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<b>Correspondent Name:</b>	ADSERO IP
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<b>Address Line 4:</b>	LITTLETON, COLORADO 80120
<b>ATTORNEY DOCKET NUMBER:</b>	0686-US-U1
<b>NAME OF SUBMITTER:</b>	ERIC CHEONG, #75,236
<b>SIGNATURE:</b>	/Eric Cheong/
<b>DATE SIGNED:</b>	04/09/2020
<b>Total Attachments: 2</b>	
source=Assignment-executed 0686-US-U1#page1.tif	
source=Assignment-executed 0686-US-U1#page2.tif	

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (referred to, collectively, if more than one, as "Assignor") have made an invention entitled **Web Service-Based Monitoring and Detection of Fraudulent or Unauthorized Use of Calling Service** for which an application for United States Letters Patent was filed on April 9, 2020 as Application Serial No. 16/844,710 and

WHEREAS, **Level 3 Communications, LLC**, a Delaware Corporation ("Assignee") having a place of business at **1025 Eldorado Blvd., Broomfield, CO 80021** desires to acquire all right, title and interest in and to the above identified invention and application;

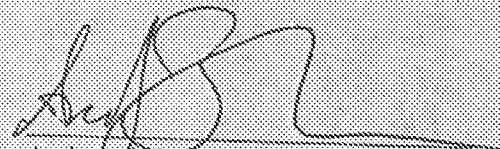
NOW, THEREFORE, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby sell, assign, convey and transfer unto Assignee all right, title and interest in and to the above identified invention and application, together with all corresponding international and foreign applications and patents which may be filed thereon, including the right to claim priority from the above identified United States application; and Assignor hereby agrees that Assignor will sign all lawful papers, including, without limitation, all divisional, continuation, renewal, extension and reissue applications, and make all rightful oaths in execution thereof, and will generally do everything possible to aid Assignee, its successors, assigns and nominees to obtain and enforce proper protection for the invention in all countries, this obligation to be binding upon Assignor (each and severally, if more than one) and upon Assignor's personal representative or other legal successor.

Assignor hereby authorizes and requests Adsero IP to insert herein above the application serial number and filing date of said application when known.

IN TESTIMONY WHEREOF, the undersigned Assignor (and each of them, if more than one) has signed below.

Date: 3-25-2020

Address:

  
Andrew J. Broadworth  
1025 Eldorado Blvd.  
Broomfield, CO 80021

Date: \_\_\_\_\_

Address:

\_\_\_\_\_  
Matthew McCarthy  
1025 Eldorado Blvd.  
Broomfield, CO 80021

# ASSIGNMENT

WHEREAS, the undersigned inventor(s) (referred to, collectively, if more than one, as "Assignor") have made an invention entitled **Web Service-Based Monitoring and Detection of Fraudulent or Unauthorized Use of Calling Service** for which an application for United States Letters Patent was filed on April 9, 2020 as Application Serial No. 16/844,710 and

WHEREAS, **Level 3 Communications, LLC**, a Delaware Corporation ("Assignee") having a place of business at **1025 Eldorado Blvd., Broomfield, CO 80021** desires to acquire all right, title and interest in and to the above identified invention and application;

NOW, THEREFORE, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby sell, assign, convey and transfer unto Assignee all right, title and interest in and to the above identified invention and application, together with all corresponding international and foreign applications and patents which may be filed thereon, including the right to claim priority from the above identified United States application; and Assignor hereby agrees that Assignor will sign all lawful papers, including, without limitation, all divisional, continuation, renewal, extension and reissue applications, and make all rightful oaths in execution thereof, and will generally do everything possible to aid Assignee, its successors, assigns and nominees to obtain and enforce proper protection for the invention in all countries, this obligation to be binding upon Assignor (each and severally, if more than one) and upon Assignor's personal representative or other legal successor.

Assignor hereby authorizes and requests Adsero IP to insert herein above the application serial number and filing date of said application when known.

IN TESTIMONY WHEREOF, the undersigned Assignor (and each of them, if more than one) has signed below.


Date: \_\_\_\_\_

Address: \_\_\_\_\_

Andrew J. Broadworth  
1025 Eldorado Blvd.  
Broomfield, CO 80021

Date: 4/9/20

Address: \_\_\_\_\_

  
Matthew McCarthy  
1025 Eldorado Blvd.  
Broomfield, CO 80021

PATENT