

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INTELLECTUAL VENTURES ASSETS 147 LLC	11/15/2019

RECEIVING PARTY DATA

Name:	CDN INNOVATIONS, LLC
Street Address:	44 MILTON AVENUE
Internal Address:	SUITE 254
City:	ALPHARETTA
State/Country:	GEORGIA
Postal Code:	30009

PROPERTY NUMBERS Total: 20

Property Type	Number
Patent Number:	8548987
Patent Number:	7890856
Patent Number:	7996766
Patent Number:	9684734
Patent Number:	6888795
Patent Number:	7554913
Patent Number:	6311180
Patent Number:	7095759
Patent Number:	6999758
Patent Number:	7929682
Patent Number:	7613452
Patent Number:	7970108
Patent Number:	6433921
Patent Number:	6628344
Patent Number:	6636273
Patent Number:	6747590
Patent Number:	6803874
Patent Number:	6621424
Patent Number:	6646572

PATENT

Property Type	Number
Patent Number:	6865532

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SIGNATURE: /Lawrence A. Aaronson/

DATE SIGNED: 01/03/2020

Total Attachments: 4

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 147 LLC, a Delaware limited liability company, with an address at 251 Little Falls Drive, Wilmington, DE 19808 (“*Assignor*”), does hereby sell, assign, transfer, and convey unto CDN Innovations, LLC, a Georgia limited liability company with an address at 44 Milton Avenue, Suite 254, Alpharetta, GA 30009 (“*Assignee*”), all of Assignor's right, title, and interest in and to the following (collectively, the “*Assigned Patent Rights*”):

- (a) the patents and patent applications listed in the table below (the “*Patents*”);

Active Patent(s) – (Filed; Granted)

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
8548987 (12/263048)	US	10/1/2013 (10/31/2008)	System and Method for Efficiently Providing a Recommendation Rausser, John
7890856 (11/515433)	US	2/15/2011 (8/31/2006)	SERVER SIDE WEB BROWSING AND MULTIPLE LENS SYSTEM, METHOD AND APPARATUS Hiang-Swee Chiang
7996766 (11/515460)	US	8/9/2011 (8/31/2006)	SERVER SIDE WEB BROWSING AND MULTIPLE LENS SYSTEM, METHOD AND APPARATUS Hiang Swee Chiang
9684734 (13/160356)	US	6/20/2017 (6/14/2011)	SERVER SIDE WEB BROWSING AND MULTIPLE LENS SYSTEM, METHOD AND APPARATUS Hiang-Swee Chiang
6888795 (10/134012)	US	5/3/2005 (4/25/2002)	Resource allocation in a circuit switched network Gupta, Vivek
7554913 (11/089958)	US	6/30/2009 (3/25/2005)	Resource allocation in a circuit switched network Gupta, Vivek

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6311180 (09/537006)	US	10/30/2001 (3/28/2000)	METHOD FOR MAPPING AND FORMATTING INFORMATION FOR A DISPLAY DEVICE John H. Fogarty
7095759 (09/527968)	US	8/22/2006 (3/17/2000)	COMBINED TELEPHONE PBX AND COMPUTER DATA ROUTER WITH POOLED RESOURCES Jeffery Fitzgerald
6999758 (10/430791)	US	2/14/2006 (5/6/2003)	SYSTEM AND METHOD FOR PROVIDING COMMUNICATIONS SERVICES Joseph Durkee
GB2417855 (GB0524864.6)	GB	8/8/2007 (5/4/2004)	System and method for providing communications services HARRIS ROUNDELL JR
7929682 (11/072090)	US	4/19/2011 (3/4/2005)	System and method for providing communications services Larry S. Wechter
7613452 (11/077334)	US	11/3/2009 (3/10/2005)	System and method for providing communications services Joseph L. Durkee
7970108 (12/572463)	US	6/28/2011 (10/2/2009)	System and method for providing communications services Larry S. Wechter
6433921 (09/783395)	US	8/13/2002 (2/15/2001)	MULTIWAVELENGTH PUMPS FOR RAMAN AMPLIFIER SYSTEMS Wu, Yongan
6628344 (09/614559)	US	9/30/2003 (7/12/2000)	REMOTE CONTROL SYSTEM PROVIDING AN AUTOMATIC ASSERTION

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			OF A PRESET SELECTION VALUE CONCURRENT WITH A SUBMISSION OF A USER PREFERRED SELECTION VALUE Harold J. Weber
6636273 (09/774529)	US	10/21/2003 (2/1/2001)	REMOTE CONTROL DEDICATED KEYBUTTON FOR CONFIRMING TUNER SETTING OF A TV SET TO A SPECIFIC CHANNEL SETTING Harold J. Weber
6747590 (09/779992)	US	6/8/2004 (2/12/2001)	ALTERNATE COMMAND SIGNAL DECODING OPTION FOR A REMOTELY CONTROLLED APPARATUS Harold J. Weber
6803874 (09/963155)	US	10/12/2004 (9/26/2001)	REMOTE CONTROLLER CAPABLE OF SUBMITTING REAL AND VIRTUAL CHANNEL NUMBER ENTRIES TO A CABLE BOX, SAT-RECEIVER OR TV-SET Harold J. Weber
6621424 (09/506609)	US	9/16/2003 (2/18/2000)	METHOD FOR PREDICTING KEYSTROKE CHARACTERS ON SINGLE POINTER KEYBOARDS AND APPARATUS THEREFORE BRAND MATTHEW
6646572 (09/506610)	US	11/11/2003 (2/18/2000)	METHOD FOR DESIGNING OPTIMAL SINGLE POINTER PREDICTIVE KEYBOARDS AND APPARATUS THEREFORE Matthew Brand

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6865532 (09/956307)	US	3/8/2005 (9/19/2001)	METHOD FOR RECOGNIZING SPOKEN IDENTIFIERS HAVING PREDEFINED GRAMMARS David Anderson

(b) any future reissues, reexaminations, extensions, continuations, continuing prosecution application, requests for continuing examinations, divisions, and registrations of any of the Patents;

(c) rights to apply in any or all countries of the world for future patents, certificates of invention, utility models, industrial design protections, design patent protections, or other future governmental grants or issuances of any type related to the Patents; and

(d) causes of action and enforcement rights of any kind under, or on account of, any of the Patents and/or any of the items described in either of the foregoing categories (b) or (c), including, without limitation, all causes of action, enforcement rights and all other rights to seek and obtain any other remedies of any kind for past, current and future infringement.

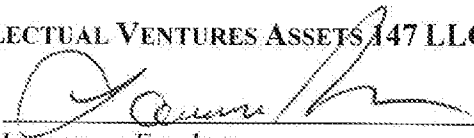
Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, as the assignee to the entire interest therein. This Assignment of Patent Rights will inure for the benefit of any permitted successors or assigns of Assignee.

Assignor will, at the reasonable request of Assignee, take all reasonable steps necessary and proper, to confirm the assignment to Assignee of the Assigned Patent Rights pursuant to this Assignment of Patent Rights, including without limitation, the execution, acknowledgment, and recordation of specific assignments, oaths, declarations, and other documents on a country-by-country basis, to assist Assignee in obtaining and perfecting the Assigned Patent Rights.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed on November 15, 2019, to be effective on November 15, 2019.

ASSIGNOR:

INTELLECTUAL VENTURES ASSETS 147 LLC

By: 
Name: Lawrence Froeber
Title: CFO