

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
TETHERBALL HOLDINGS, INC.,	08/18/2017

**RECEIVING PARTY DATA**

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<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
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**PROPERTY NUMBERS Total: 15**

Property Type	Number
Patent Number:	6243452
Patent Number:	6650306
Patent Number:	7734293
Patent Number:	8023953
Patent Number:	6137789
Patent Number:	6510148
Patent Number:	7292607
Patent Number:	7596372
Patent Number:	8055897
Patent Number:	5887250
Patent Number:	5892902
Patent Number:	7684442
Application Number:	60579431
PCT Number:	US2005021035
PCT Number:	US2006061657

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**PATENT**

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**DATE SIGNED:** 08/23/2017

**Total Attachments: 4**

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**ASSIGNMENT OF PATENT RIGHTS**

For good and valuable consideration, the receipt of which is hereby acknowledged, Tetherball Holdings, Inc., a Delaware corporation with an office c/o Springboard Capital, 9 Temperance Street, Third Floor, Toronto, Ontario M5H 1Y6 ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 19 LLC, a Delaware limited liability company, with an address at 2711 Centerville Rd, Suite 400, Wilmington, DE 19808 ("**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**");

<u>Patent No.</u> <u>(Application No.)</u>	<u>Country</u>	<u>Issue Date</u> <u>(Filing Date)</u>	<u>Title of Patent and Inventor(s)</u>
6243452 (09/065117)	US	6/5/2001 (4/23/1998)	Graphical call status presentation system  Robert Donald Monroe Jr.; Patrick Michael O'Shaughnessey
6650306 (09/923160)	US	11/18/2003 (8/6/2001)	Security-enhanced display device  Darren L. Leigh; William S. Yerazunis
7734293 (10/694879)	US	6/8/2010 (10/29/2003)	MAPPING WIRELESS PROXIMITY IDENTIFICATOR TO SUBSCRIBER IDENTIFY FOR HOTSPOT BASED WIRELESS SERVICES FOR MOBILE TERMINALS  Ari Koli; Martin Zilliacus
8023953 (12/732930)	US	9/20/2011 (3/29/2010)	MAPPING WIRELESS PROXIMITY IDENTIFICATOR TO SUBSCRIBER IDENTIFY FOR HOTSPOT BASED WIRELESS SERVICES FOR MOBILE TERMINALS  Ari Koli; Martin Zilliacus
6137789 (08/882822)	US	10/24/2000 (6/26/1997)	MOBILE STATION EMPLOYING SELECTIVE DISCONTINUOUS TRANSMISSION FOR HIGH SPEED DATA SERVICES IN CDMA MULTI-CHANNEL REVERSE LINK CONFIGURATION  Zhichun Honkasalo

<u>Patent No.</u> (Application No.)	<u>Country</u>	<u>Issue Date</u> (Filing Date)	<u>Title of Patent and Inventor(s)</u>
KR10-0432807 (KR10-1998-0021536)	KR	5/13/2004 (6/10/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
JP4376982 (JP10-178955)	JP	9/18/2009 (6/25/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
DE69838657.4 (DE69838657.4)	DE	11/7/2007 (6/26/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
FR0887948 (FR98305055.0)	FR	11/7/2007 (6/26/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
GB0887948 (GB98305055.0)	GB	11/7/2007 (6/26/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
IT0887948 (IT98305055.0)	IT	11/7/2007 (6/26/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo
6510148 (09/694698)	US	1/21/2003 (10/23/2000)	SELECTIVE DISCONTINUOUS TRANSMISSION FOR HIGH SPEED DATA SERVICES IN CDMA MULTI-CHANNEL CONFIGURATION  Zhichun Honkasalo
7292607 (10/067465)	US	11/6/2007 (2/4/2002)	METHOD AND CIRCUIT FOR PROCESSING DATA IN COMMUNICATION NETWORKS  Feng Han; Andy Annadurai; Chris Tsu
7596372 (11/153077)	US	9/29/2009 (6/14/2005)	APPARATUSES AND METHODS FOR MEASURING SIGNAL STRENGTHS OF WIRELESS NETWORKS  Phillip D. Warren
8055897 (11/296601)	US	11/8/2011 (12/6/2005)	Digital object title and transmission information  Cohen, Alexander; Khan, Shabbir

<u>Patent No.</u> <u>(Application No.)</u>	<u>Country</u>	<u>Issue Date</u> <u>(Filing Date)</u>	<u>Title of Patent and Inventor(s)</u>
CNZL200680045983.4 (CN200680045983.4)	CN	5/1/2013 (12/6/2006)	Khan, Shabbir
JP4764929 (JP2008-544637)	JP	6/17/2011 (12/6/2006)	Khan, Shabbir
KR10-1116109 (KR10-2008-7016280)	KR	1/27/2012 (12/6/2006)	Khan, Shabbir

(b) any 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;

(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; and

(e) the patents and patent applications listed in the table below as well as (i) all rights to the inventions, invention disclosures, and discoveries in the assets listed below, together with its rights, if any, to revive prosecution of claims under such assets and to sue or otherwise enforce any claims under such assets for past, present or future infringement:

<u>Patent No.</u> <u>(Application No.)</u>	<u>Country</u>	<u>Issue Date</u> <u>(Filing Date)</u>	<u>Title of Patent and Inventor(s)</u>
5887250 (08/678569)	US	3/23/1999 (7/12/1996)	Mobile station having lock code based on secure value  Bharat Shah
5892902 (08/708412)	US	4/6/1999 (9/5/1996)	Intelligent token protected system with network authentication  Paul C. Clark
EP0887948 (EP98305055.0)	EP	11/7/2007 (6/26/1998)	POWER CONTROL AND DATA SERVICES IN CDMA NETWORKS  Zhichun Honkasalo

<u>Patent No.</u> <u>(Application No.)</u>	<u>Country</u>	<u>Issue Date</u> <u>(Filing Date)</u>	<u>Title of Patent and Inventor(s)</u>
7684442 (11/514379)	US	3/23/2010 (8/30/2006)	METHOD AND CIRCUIT FOR PROCESSING DATA IN COMMUNICATION NETWORKS  Chris Tsu; Feng Han; Andy Annadurai
60/579431	US	6/14/2004	WIRELESS RSSI TESTER  Inventorship not available
PCT/US2005/021035	WO	6/14/2005	APPARATUSES AND METHODS FOR MEASURING SIGNAL STRENGTHS OF WIRELESS NETWORKS  WARREN PHILLIP D
EP06846493.2	EP	12/6/2006	DIGITAL OBJECT TITLE AND TRANSMISSION INFORMATION  Khan, Shabbir
PCT/US2006/061657	WO	12/6/2006	DIGITAL OBJECT TITLE AND TRANSMISSION INFORMATION  Khan, Shabbir

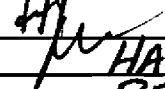
Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, 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

This Assignment of Patent Rights is effective as of the date set forth below.

**ASSIGNOR:**

**Tetherball Holdings, Inc.**

By:   
Name: HAROLD S. SPRINGER  
Title: PRESIDENT  
Date: AUGUST 18, 2017

**PATENT**