

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
CALLAHAN CELLULAR L.L.C.		10/31/2019
RECEIVING PARTY DATA		
Name:	INTELLECTUAL VENTURES ASSETS 144 LLC	
Street Address:	251 LITTLE FALLS DRIVE	
City:	WILMINGTON	
State/Country:	DELAWARE	
Postal Code:	19808	
PROPERTY NUMBERS Total: 18		
Property Type	Number	
Patent Number:	7088364	
Patent Number:	7737976	
Patent Number:	8400450	
Patent Number:	8947428	
Patent Number:	6768497	
Patent Number:	7256801	
Patent Number:	7164714	
Patent Number:	7130831	
Patent Number:	7225157	
Patent Number:	7006844	
Patent Number:	7860462	
Patent Number:	7308487	
Patent Number:	7444353	
Patent Number:	7870088	
Patent Number:	8509397	
Patent Number:	10275208	
Patent Number:	7215940	
Application Number:	16354031	
CORRESPONDENCE DATA		

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SIGNATURE:	/Janice L. Goebel/
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DATE SIGNED:	10/31/2019
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Total Attachments: 10

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Callahan Cellular L.L.C., a Delaware limited liability company having an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Assignor**"), does hereby sell, assign, transfer, and convey unto Intellectual Ventures Assets 144 LLC a Delaware limited liability company, having an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Assignee**"), or its designees, all of its right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "**Patent Rights**"):

(a) the provisional patent applications, patent applications and patents 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>
7088364 (10/289453)	US	8/8/2006 (11/7/2002)	Method and system for displaying stereoscopic detail-in-context presentations Lantin, Maria
7737976 (11/410024)	US	6/15/2010 (4/25/2006)	Method and system for displaying stereoscopic detail-in-context presentations Lantin, Maria
8400450 (12/764724)	US	3/19/2013 (4/21/2010)	Method and system for displaying stereoscopic detail-in-context presentations Lantin, Maria
8947428 (13/845442)	US	2/3/2015 (3/18/2013)	METHOD AND SYSTEM FOR DISPLAYING STEREOSCOPIC DETAIL-IN-CONTEXT PRESENTATIONS Lantin, Maria
DE60135475.3 (DE60135475.3)	DE	8/20/2008 (10/18/2001)	ELASTIC PRESENTATION SPACE David J Cowperthwaite
FR1327235 (FR01978042.8)	FR	8/20/2008 (10/18/2001)	ELASTIC PRESENTATION SPACE David J Cowperthwaite

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
GB1327235 (GB01978042.8)	GB	8/20/2008 (10/18/2001)	ELASTIC PRESENTATION SPACE David J Cowperthwaite
6768497 (09/978773)	US	7/27/2004 (10/18/2001)	Elastic presentation space David J. P. Baar
7256801 (10/856807)	US	8/14/2007 (6/1/2004)	Elastic presentation space David J. Cowperthwaite
DE60243456.4 (DE60243456.4)	DE	8/8/2012 (2/14/2002)	System for video transmission and processing generating a user mosaic Martin, Francois
FR1233614 (FR02075597.1)	FR	8/8/2012 (2/14/2002)	System for video transmission and processing generating a user mosaic Martin, Francois
GB1233614 (GB02075597.1)	GB	8/8/2012 (2/14/2002)	System for video transmission and processing generating a user mosaic Martin, Francois
CNZL02106288.9 (CN02106288.9)	CN	8/5/2009 (2/15/2002)	Video frequency transmission and processing system for forming user mosaic image Martin, Francois
7164714 (10/076330)	US	1/16/2007 (2/15/2002)	Video transmission and processing system for generating a user mosaic Martin, Francois
JP4406750 (JP2002-039069)	JP	11/20/2009 (2/15/2002)	VIDEO TRANSMISSION SYSTEM FOR GENERATING USER MOSAIC AND ITS PROCESSING SYSTEM Martin, Francois

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
KR10-0825213 (KR10-2002-0008290)	KR	4/21/2008 (2/16/2002)	System and method of video transmission and processing for generating a user mosaic, and recording medium have recorded thereon a computer program Martin, Francois
7130831 (09/393405)	US	10/31/2006 (9/10/1999)	Limited-use browser and security system Howard, Christopher J.
7225157 (09/745395)	US	5/29/2007 (12/21/2000)	Limited-use browser and security system Howard, Christopher J.
7006844 (10/076617)	US	2/28/2006 (2/19/2002)	Adaptive power control for multicast transmission Sinikka Sarkkinen
DE60351330.1 (DE60351330.1)	DE	7/18/2018 (2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen
FR1479252 (FR03742632.7)	FR	7/18/2018 (2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen
GB1479252 (GB03742632.7)	GB	7/18/2018 (2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen
7860462 (11/332751)	US	12/28/2010 (1/13/2006)	Adaptive power control for multicast transmission Sinikka Sarkkinen
7308487 (10/015322)	US	12/11/2007 (12/12/2001)	System and method for providing fault-tolerant remote controlled computing devices Dansie, Christopher

7444353 (09/567848)	US	10/28/2008 (5/9/2000)	Apparatus for delivering music and information Alexander C. Chen
7870088 (10/870729)	US	1/11/2011 (6/17/2004)	METHOD OF DELIVERING MUSIC AND INFORMATION Alexander C. Chen
8509397 (12/075261)	US	8/13/2013 (3/11/2008)	Apparatus and methods of delivering music and information Alexander C.
10275208 (15/134292)	US	4/30/2019 (4/20/2016)	Apparatus and methods of delivering music and information Alexander C. Chen
(16/354031)	US	(3/14/2019)	Apparatus and methods of delivering music and information Alexander C. Chen
7215940 (10/377125)	US	5/8/2007 (2/28/2003)	Integrated circuit Goddard, Simon Peter

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents above and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceeding brought on any of the Patents and/or any item in the foregoing categories (b) through (e), and/or (iii) could have been included as a claim in any of the Patents and/or any item in the foregoing categories (b) through (e);

(g) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (f), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

- (1) damages,
- (2) injunctive relief, and
- (3) any other remedies of any kind

for past, current, and future infringement;

(i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h); and

(j) all rights to the assets listed in the table below, as well as all rights to the inventions, invention disclosures, and discoveries in the assets listed in the table below, together, with the 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:

Inactive Patent(s) – (Abandoned; Lapsed; Expired)

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(CA2361341)	CA	(11/7/2001)	Use of detail-in-context presentation on stereoscopically paired images Lantin, Maria
(CA2323569)	CA	(10/18/2000)	Elastic Presentation Space David J Cowperthwaite

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(PCT/CA2001/001472)	WO	(10/18/2001)	Elastic Presentation Space David J Cowperthwaite
(CA2425990)	CA	(10/18/2001)	Elastic Presentation Space David J Cowperthwaite
EP1327235 (EP01978042.8)	EP	8/20/2008 (10/18/2001)	Elastic Presentation Space David J Cowperthwaite
JP4410465 (JP2002-536993)	JP	11/20/2009 (10/18/2001)	Elastic presentation space David J Cowperthwaite
(FR0102137)	FR	(2/16/2001)	Unable to Verify Unable to Verify
EP1233614 (EP02075597.1)	EP	8/8/2012 (2/14/2002)	System for video transmission and processing generating a user mosaic Martin, Francois
(PL352270)	PL	(2/15/2002)	Unable to Verify Martin, Francois
RU2308172 (RU02/010430)	RU	10/10/2007 (2/15/2002)	System For Transmission And Processing Of Video Signal, Meant For Creation Of User Mosaics Martin, Francois
(BR2002PI01275)	BR	(2/18/2002)	System for video transmission and processing generating a user mosaic Martin, Francois

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
IN223303 (IN129/MAS/2002)	IN	2/18/2002 (2/18/2002)	VIDEO TRANSMISSION AND PROCESSING SYSTEM FOR GENERATING A USER MOSIAC Martin, Francois
(60/119309)	US	(2/8/1999)	VIEW-ONLY WEB BROWSER AND SECURITY Howard, Christopher J.
(PCT/US2000/002908)	WO	(2/4/2000)	LIMITED-USE BROWSER AND SECURITY SYSTEM HOWARD CHRISTOPHER J
8024227 (11/742855)	US	9/20/2011 (5/1/2007)	Limited-use browser and security system Howard, Christopher J.
8868450 (13/212787)	US	10/21/2014 (8/18/2011)	Limited-use browser and security system Peter S. Levy
(PCT/IB2003/000579)	WO	(2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen
EP1479252 (EP03742632.7)	EP	7/18/2018 (2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen
(EP18184029.9)	EP	(2/19/2003)	Adaptive power control for multicast transmission Sinikka Sarkkinen

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(60/255212)	US	(12/12/2000)	Blueware web-enabled media and content delivery and tracking systems Dressler, Chad
(60/179256)	US	(1/31/2000)	Method and apparatus for providing music and information Alexander C. Chen
(60/182309)	US	(2/9/2000)	Method and apparatus for providing music and information Alexander C. Chen
(PCT/US2001/003125)	WO	(1/31/2001)	Method and Apparatus for Delivering Music and Information Alexander C. Chen
(11/644057)	US	(12/21/2006)	Apparatus and methods of delivering music and information Chen Alexander C.
9350788 (13/966224)	US	5/24/2016 (8/13/2013)	Apparatus and methods of delivering music and information Alexander C. Chen
(GB0204708.2)	GB	(2/28/2002)	Integrated circuit Unable to verify

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

Assignor will, at the reasonable request of Assignee, do all things necessary, proper, or advisable, 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, perfecting, sustaining, and/or enforcing the Patent Rights.

The terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon Assignor, its successors, assigns, and other legal representatives.

IN WITNESS WHEREOF this Assignment of Patent Rights is executed at Bellevue, WA
on 10/31/19.

ASSIGNOR:

Callahan Cellular L.L.C.

By: _____

Name: _____

Title: _____

Laurence Freeber
CFO

STATE OF WASHINGTON)

)ss.

COUNTY OF KING)

On

10/31/19

, before me, _____

Catherine Ruoff

Notary Public in and for said State, personally appeared Laurence Freeber, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

Notary Public, State of Washington

My commission expires: _____

6/18/22

Cert # 83439

(Seal)



ASSIGNEE:

Intellectual Ventures Assets 144 LLC

By: _____

Name: _____

Title: _____

STATE OF WASHINGTON)

)ss.

COUNTY OF KING)

On

10/31/19

, before me,

Catherine Ruoff

Notary Public in and for said State, personally appeared Lawrence Froeber, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature _____

Notary Public, State of Washington

My commission expires: _____

6/18/22

Cert # 83439

