

PATENT ASSIGNMENT COVER SHEET

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EFFECTIVE DATE:	12/03/2018

CONVEYING PARTY DATA

Name	Execution Date
HARUSAKI TECHNOLOGIES, LLC	12/24/2018

RECEIVING PARTY DATA

Name:	INTELLECTUAL VENTURES ASSETS 99 LLC
Street Address:	251 LITTLE FALLS DRIVE
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808

PROPERTY NUMBERS Total: 4

Property Type	Number
Patent Number:	7274398
Patent Number:	6469289
Patent Number:	6972790
Patent Number:	8537242

CORRESPONDENCE DATA

Fax Number: (425)679-0580

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.

Email: ivrecording@intven.com

Correspondent Name: INTELLECTUAL VENTURES MANAGEMENT- IP LEGAL

Address Line 1: 3150 139TH AVENUE SE

Address Line 2: BUILDING 4, FLOOR 3

Address Line 4: BELLEVUE, WASHINGTON 98005

NAME OF SUBMITTER:	CASSANDRA BRAGET
SIGNATURE:	/Cassandra Braget/
DATE SIGNED:	01/23/2019

Total Attachments: 2

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Harusaki Technologies, 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 Intellectual Ventures Assets 99 LLC, a Delaware limited liability company, with an address at 251 Little Falls Drive, 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/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
7274398 (10/146231)	US	9/25/2007 (5/15/2002)	AUTO BLANK READOUT MODE Michael Pearson
6469289 (09/718137)	US	10/22/2002 (11/21/2000)	AMBIENT LIGHT DETECTION TECHNIQUE FOR AN IMAGING ARRAY John Scott-Thomas; Paul Vulpoiu; Alex Roustaei;
6972790 (09/742723)	US	12/6/2005 (12/21/2000)	HOST INTERFACE FOR IMAGING ARRAYS Mark Suska
JP4585694 (JP2001-012631)	JP	9/10/2010 (1/22/2001)	TECHNIQUE OF DETECTING AMBIENT LIGHT FOR IMAGING ARRAY ROUSTAEI ALEX; VULPOIU PAUL; SCOTT- THOMAS JOHN
JP4727045 (JP2001-012640)	JP	4/22/2011 (1/22/2001)	ANALOG STORAGE DEVICE FOR CMOS ARRAY SCOTT-THOMAS JOHN
8537242 (11/259791)	US	9/17/2013 (10/27/2005)	Host interface for imaging arrays Mark Suska

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
JPS785520 (JP2012-105464)	JP	7/31/2015 (5/2/2012)	HOST INTERFACE FOR IMAGE FORMING ARRAY Mark Suska

(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.

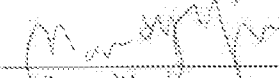
Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all future patents, certificates of invention, utility models or other governmental grants or issuances that may be granted upon any of the Assigned Patent Rights in the name of Assignee, 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 Dec 20, 2018, to be effective on 03 December 2018.

ASSIGNOR:

HARUSAKI TECHNOLOGIES, LLC

By: 
Name: Mark Suska
Title: Authorized Person