

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5344392

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	INTELLECTUAL VENTURES ASSETS 127 LLC	12/27/2018
	INTELLECTUAL VENTURES ASSETS 122 LLC	12/27/2018
RECEIVING PARTY DATA		
Name:	ROVI CORPORATION	
Street Address:	2160 GOLD STREET	
City:	SAN JOSE	
State/Country:	CALIFORNIA	
Postal Code:	95002	
PROPERTY NUMBERS Total: 31		
	Property Type	Number
	Patent Number:	7739621
	Patent Number:	7216299
	Patent Number:	RE43933
	Patent Number:	8122466
	Patent Number:	8909729
	Patent Number:	8046813
	Patent Number:	9648364
	Patent Number:	7711774
	Patent Number:	7503059
	Patent Number:	8504652
	Patent Number:	8396931
	Patent Number:	8838693
	Patent Number:	8644316
	Patent Number:	7069515
	Patent Number:	8135263
	Patent Number:	7110664
	Patent Number:	8634705
	Patent Number:	9502075
	Patent Number:	7254640

PATENT

Property Type	Number
Patent Number:	7729381
Application Number:	15587827
Application Number:	60371273
Application Number:	11527279
Application Number:	11444172
Patent Number:	7478063
Patent Number:	8086750
Patent Number:	6313833
Application Number:	10801926
Application Number:	10464804
Application Number:	60390029
Application Number:	12252920

CORRESPONDENCE DATA

Fax Number:

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: juanita.alvarez@hglaw.com

Correspondent Name: HALEY GUILIANO LLP

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Address Line 4: NEW YORK, NEW YORK 10004

ATTORNEY DOCKET NUMBER: VENTURES TO ROVI CORP

NAME OF SUBMITTER: JUANITA ALVAREZ

SIGNATURE: /JUANITA ALVAREZ/

DATE SIGNED: 01/25/2019

Total Attachments: 16

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ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 127 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 Rovi Corporation, a Delaware corporation with an office at 2160 Gold Street, San Jose, CA 95002 ("**Assignee**"), subject to certain existing rights and encumbrances as described in the Patent Sale Agreement between Assignor and Assignee, dated on or around December 26, 2018, 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>
7739621 (09/945099)	US	2010-06-15 (2001-08-31)	INTERFACE AND METHOD ADAPTED FOR CAPTURING SUBJECTIVE PREFERENCES OF PROGRAM USERS Timothy Orr Knight
7216299 (09/944624)	US	2007-05-08 (2001-08-31)	INTERFACE AND PROGRAM USING VISUAL DATA ARRANGEMENTS FOR EXPRESSING USER PREFERENCES CONCERNING AN ACTION OR TRANSACTION Timothy O Knight
7478063 (09/945184)	US	2009-01-13 (2001-08-31)	STOCK TRADING APPLICATION PROGRAM Timothy Orr Knight
(12/252920)	US	(2008-10-16)	INTERFACE AND PROGRAM USING VISUAL DATA ARRANGEMENTS FOR EXPRESSING USER PREFERENCES CONCERNING AN ACTION OR TRANSACTION Timothy Orr Knight

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
8086750 (11/029212)	US	2011-12-27 (2005-01-03)	METHOD AND SYSTEM FOR DELIVERING CONTENT OVER A NETWORK Hans-Joerg Voegel

(b) any future reissues, reexaminations, extensions, continuations, continuations-in-part, continuing prosecution applications, divisionals, requests for continuing examinations, 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, with full benefit of such priority as may now or hereafter be granted to it by law, treaty or other international convention;

(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;

(e) all rights to recover and collect on all future settlement agreements, license payments, royalties, and other payments hereafter due or payable pursuant to agreements entered into following the date hereof under or on account of any of the Patents;

(f) the right to license and sublicense the Patents; and

(g) all administrative rights with respect to enforcing, defending or maintaining the Patents, including, without limitation, all rights to initiate proceedings before government and administrative bodies with regard to the Patents and all rights to prosecute and defend the Patents.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to record and register this Assignment of Patent Rights, and 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, at Assignee's cost, 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, recording and perfecting the Assigned Patent Rights.

Nothing in this Assignment of Patent Rights, express or implied, is intended to or shall be construed to modify, expand, supersede or limit in any way the terms, conditions or obligations of the Patent Sale Agreement. To the extent any provision of this Assignment of Patent Rights conflicts with or is inconsistent with the terms of the Patent Sale Agreement, the Patent Sale Agreement shall control and govern.

This Assignment of Patent Rights shall be governed by, and construed in accordance with, the laws of the United States in respect to patent issues, and in all other respects including as to validity (except for patent validity issues) interpretation and effect by the laws of the State of Delaware without giving effect to the conflict of laws rules thereof.

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IN WITNESS WHEREOF this Assignment of Patent Rights is executed on December 27, 2018,
to be effective as of December 28, 2018.

ASSIGNOR:

Intellectual Ventures Assets 127 LLC

By: 

Name: James A. Welsfield

Title: Authorized Person

ASSIGNMENT OF PATENT RIGHTS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 122 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 Rovi Corporation, a Delaware corporation with an office at 2160 Gold Street, San Jose, CA 95002 ("**Assignee**"), subject to certain existing rights and encumbrances as described in the Patent Sale Agreement between Assignor and Assignee, dated on or around December 26, 2018, all of Assignor's right, title, and interest in and to the following (collectively, the "**Assigned Patent Rights**"):

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<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
RE43933 (12/537963)	US	2013-01-15 (2009-08-07)	System for providing fault tolerant data warehousing environment by temporary transmitting data to alternate data warehouse during an interval of primary data warehouse failure Bruce Alexander
8122466 (11/652436)	US	2012-02-21 (2007-01-11)	System and method for updating digital media content Leigh M. Rothschild
8909729 (11/716763)	US	2014-12-09 (2007-03-12)	System and method for sharing digital media content Leigh M. Rothschild
8046813 (12/380701)	US	2011-10-25 (2009-03-03)	Method of enhancing media content and a media enhancement system Leigh M. Rothschild
9648364 (14/460524)	US	2017-05-09 (2014-08-15)	A MULTI-USER MEDIA DELIVERY SYSTEM FOR SYNCHRONIZING CONTENT ON MULTIPLE MEDIA PLAYERS Leigh M. Rothschild
7711774 (09/997477)	US	2010-05-04 (2001-11-20)	Interactive, multi-user media delivery system Leigh M. Rothschild

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
7503059 (10/034832)	US	2009-03-10 (2001-12-28)	Method of enhancing media content and a media enhancement system Leigh M. Rothschild
8504652 (11/400889)	US	2013-08-06 (2006-04-10)	Method and system for selectively supplying media content to a user and media storage device for use therein Leigh M. Rothschild
8396931 (12/771004)	US	2013-03-12 (2010-04-30)	INTERACTIVE, MULTI-USER MEDIA DELIVERY SYSTEM Leigh Michell Rothschild
8838693 (12/780236)	US	2014-09-16 (2010-05-14)	MULTI-USER MEDIA DELIVERY SYSTEM FOR SYNCHRONIZING CONTENT ON MULTIPLE MEDIA PLAYERS Leigh Mitchell Rothschild
(15/587827)	US	(2017-05-05)	MULTI-USER MEDIA DELIVERY SYSTEM FOR SYNCHRONIZING CONTENT ON MULTIPLE MEDIA PLAYERS Leigh M. Rothschild
8644316 (12/760759)	US	2014-02-04 (2010-04-15)	In-band media performance monitoring Raghvendra G. Savoor
7069515 (10/152204)	US	2006-06-27 (2002-05-21)	Method and apparatus for displaying messages in computer systems Scott G. Eagle
8135263 (11/517825)	US	2012-03-13 (2006-09-08)	Methods and apparatus for indexing and archiving encoded audio/video data Jay Yogeshwar

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
7110664 (09/839355)	US	2006-09-19 (2001-04-20)	Methods and apparatus for indexing and archiving encoded audio-video data Jay Yogeshwar
8634705 (11/927389)	US	2014-01-21 (2007-10-29)	Methods and apparatus for indexing and archiving encoded audio/video data Jay Yogeshwar
9502075 (14/157150)	US	2016-11-22 (2014-01-16)	Methods and apparatus for indexing and archiving encoded audio/video data Jay Yogeshwar

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(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;

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Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to record and register this Assignment of Patent Rights, and 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, at Assignee's cost, 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, recording and perfecting the Assigned Patent Rights.

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ASSIGNOR:

Intellectual Ventures Assets 122 LLC

By: 

Name: James A. Weisfield

Title: Authorized Person

ASSIGNMENT OF RIGHTS IN CERTAIN ASSETS

For good and valuable consideration, the receipt of which is hereby acknowledged, Intellectual Ventures Assets 127 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 Rovi Corporation, a Delaware corporation with an office at 2160 Gold Street, San Jose, CA 95002 ("*Assignee*"), all of its right, title, and interest in and to any and all of the following provisional patent applications, patent applications, patents, and other governmental grants or issuances of any kind (the "*Certain Assets*"):

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
6313833 (09/173853)	US	2001-11-06 (1998-10-16)	GRAPHICAL DATA COLLECTION INTERFACE AND RETRIEVAL INTERFACE Timothy Orr Knight
 (10/801926)	US	 (2004-03-15)	METHOD AND SYSTEM FOR DELIVERING CONTENT OVER A NETWORK Hans-Joerg Voegel
 (10/464804)	US	 (2003-06-17)	METHOD AND SYSTEM FOR DELIVERING CONTENT OVER A NETWORK Hans-Joerg Voegel
 (60/390029)	US	 (2002-06-17)	METHOD AND SYSTEM FOR DELIVERING CONTENT OF LEARNING LESSONS OVER THE INTERNET Hans-Joerg Voegel

Assignor assigns to Assignee, subject to certain existing rights and encumbrances as described in the Patent Sale Agreement between Assignor and Assignee, dated on or around the date hereof, all of its rights to the inventions, invention disclosures, and discoveries in the assets listed above, together, with all of 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. Assignor further assigns to Assignee, subject to certain existing rights and encumbrances as described in the Patent Sale Agreement between Assignor and Assignee, dated on or around the date hereof, all of its rights to recover and collect on all future settlement agreements, license payments, royalties, and other payments hereafter due or payable pursuant to

agreements entered into following the date hereof under or on account of any of the Certain Assets; the right to license and sublicense the Certain Assets and all administrative rights with respect to enforcing, defending or maintaining the Certain Assets, including, without limitation, all rights to initiate proceedings before government and administrative bodies with regard to the Certain Assets and all rights to prosecute and defend the Certain Assets.

Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to make available to Assignee all records regarding the Certain Assets and 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 Certain Assets in the name of Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment of Rights in Certain Assets 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.

Assignor will, at the reasonable request of Assignee, at Assignee's cost, take all reasonable steps necessary and proper, to confirm the assignment to Assignee of the Certain Assets pursuant to this Assignment of Rights in Certain Assets, 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, recording and perfecting the Certain Assets.

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(60/371273)	US	(2002-04-09)	System and method for providing a fault-tolerant data warehouse environment Bruce Alexander
7254640 (10/411504)	US	2007-08-07 (2003-04-09)	System for providing fault tolerant data warehousing environment by temporary transmitting data to alternate data warehouse during an interval of primary data warehouse failure Bruce Alexander
(11/527279)	US	(2006-09-26)	System and method for marking digital media content Leigh M. Rothschild
(PCT/US2007/078501)	WO	(2007-09-14)	In-band media performance monitoring Raghvendra G. Savor
7729381 (11/522275)	US	2010-06-01 (2006-09-15)	In-band media performance monitoring Raghvendra G. Savor
(EP03755344.3)	EP	(2003-05-05)	Method and Apparatus for Displaying Messages in Computer Systems Scott G. Eagle
(11/444172)	US	(2006-05-30)	Method and apparatus for displaying messages in computer systems Scott G. Eagle

<u>Patent/ Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and Inventors</u>
(JP2004-508329)	JP	(2003-05-05)	Method and Apparatus for Displaying Messages in Computer Systems Scott G. Eagle
(KR10-2004-7018751)	KR	(2003-05-05)	Method and Apparatus for Displaying Messages in Computer Systems Scott G. Eagle
(PCT/US2003/013985)	WO	(2003-05-05)	Method and Apparatus for Displaying Messages in Computer Systems Scott G. Eagle
(PCT/US2002/012427)	WO	(2002-04-19)	Methods and apparatus for indexing and archiving encoded audio/video data Jay Yogeshwar

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