PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3277767

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
GRACENOTE, INC.	03/06/2015
TRIBUNE BROADCASTING COMPANY, LLC	03/06/2015
TRIBUNE DIGITAL VENTURES, LLC	03/06/2015

RECEIVING PARTY DATA

Name:	JPMORGAN CHASE BANK, N.A., AS AGENT
Street Address:	10 S. DEARBORN
Internal Address:	7TH FLOOR
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603

PROPERTY NUMBERS Total: 37

Property Type	Number
Patent Number:	8955025
Patent Number:	8955026
Patent Number:	8953891
Application Number:	62099398
Application Number:	62099399
Application Number:	62099401
Application Number:	14632140
Application Number:	14556636
Application Number:	14584720
Application Number:	14584972
Application Number:	14584975
Application Number:	62111474
Application Number:	14622366
Application Number:	14626592
Application Number:	14626598
Application Number:	14627119
Application Number:	14627164

PATENT REEL: 035249 FRAME: 0937

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Property Type	Number
Application Number:	14628771
Application Number:	14636575
PCT Number:	US1466428
PCT Number:	US1471105
PCT Number:	US1472977
PCT Number:	US1516458
PCT Number:	US1517271
PCT Number:	US1471206
PCT Number:	US1472217
PCT Number:	US1472111
PCT Number:	US1472641
PCT Number:	US1472652
PCT Number:	US1472653
PCT Number:	US1472812
PCT Number:	US1472817
PCT Number:	US1472821
PCT Number:	US1472825
PCT Number:	US1472829
PCT Number:	US1472830
PCT Number:	US1472836

CORRESPONDENCE DATA

Fax Number: (800)494-7512

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.

Phone: 202-370-4750

Email: ipteam@nationalcorp.com
Correspondent Name: DWAYNE C. HOUSTON

Address Line 1: 1025 VERMONT AVENUE NW, SUITE 1130 Address Line 2: NATIONAL CORPORATE RESEARCH, LTD.

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	F154639
NAME OF SUBMITTER:	KAREN S. COTTRELL
SIGNATURE:	/Karen S. Cottrell/
DATE SIGNED:	03/23/2015

Total Attachments: 8

source=#87021687v1 - (Patent Security Interest - Filing Document)#page2.tif source=#87021687v1 - (Patent Security Interest - Filing Document)#page3.tif source=#87021687v1 - (Patent Security Interest - Filing Document)#page4.tif source=#87021687v1 - (Patent Security Interest - Filing Document)#page5.tif

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NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS

NOTICE AND CONFIRMATION OF GRANT OF SECURITY INTEREST IN PATENTS (the "Agreement"), dated as of March 6, 2015, made by each of the Grantors indicated on the signature pages hereto (the "Grantors") in favor of JPMORGAN CHASE BANK, N.A., as Collateral Agent (the "Agent") for the Lenders that are parties to the Credit Agreement, dated as of December 27, 2013, among the Tribune Company (the "Borrower"), the Lenders and the Agent (as amended, supplemented, waived or otherwise modified from time to time, the "Credit Agreement").

WHEREAS, pursuant to the Credit Agreement, the Lenders have severally agreed to make loans to the Borrower subject to the terms and conditions set forth therein; and

WHEREAS, in connection with the Credit Agreement, the Grantors and the other parties thereto have executed and delivered a Security Agreement, dated as of December 27, 2013, in favor of the Agent (together with all amendments, supplements, waivers and other modifications, if any, from time to time thereafter made thereto, the "Security Agreement"); and

WHEREAS, pursuant to the Security Agreement, each Grantor granted to the Agent, for the ratable benefit of the Secured Parties, a security interest in all of its Intellectual Property, including the Patents; and

WHEREAS, each Grantor has duly authorized the execution, delivery and performance of this Agreement;

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, each Grantor agrees as follows:

- 1. <u>Definitions</u>. Unless otherwise defined herein or the context otherwise requires, terms used in this Agreement, including its preamble and recitals, have the meanings provided or provided by reference in the Credit Agreement and the Security Agreement.
- 2. <u>Confirmation of Grant of Security Interest.</u> Each Grantor hereby confirms that it granted to the Agent, for the benefit of the Secured Parties, a security interest in and continuing lien on all of such Grantor's right, title and interest in (subject only to Liens permitted under the Credit Agreement) and to all Patents now owned or anytime hereafter acquired by such Grantor or in which such Grantor now has or at any time in the future may acquire any right, title and interest, including without limitation those Patents set forth on Schedule I hereto, and, to the extent not otherwise included, all Proceeds and products of any and all of the foregoing and all collateral security and

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guarantees given by any Person with respect to the foregoing as collateral security for the prompt and complete payment and performance when due (whether as stated maturity, by acceleration or otherwise) of the Guaranteed Obligations; <u>provided</u>, <u>however</u>, that no security interest is granted in any Excluded Property.

- 3. <u>Purpose</u>. This Agreement has been executed and delivered by each Grantor for the purpose of recording the grant of security interest with the United States Patent and Trademark Office. This Agreement is expressly subject to the terms and conditions of the Security Agreement. The Security Agreement (and all rights and remedies of the Lenders thereunder) shall remain in full force and effect in accordance with its terms.
- 4. <u>Acknowledgment</u>. Each Grantor does hereby further acknowledge and affirm that the rights and remedies of the Lenders with respect to the security interest in the Patents are more fully set forth in the Credit Agreement and the Security Agreement, the terms and provisions of which (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein.
- 5. <u>Counterparts</u>. This Agreement may be executed in one or more counterparts (and by different parties hereto in different counterparts), each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. Delivery by telecopier or other electronic transmission of an executed counterpart of a signature page to this Agreement shall be effective as delivery of an original executed counterpart of this Agreement. The Agent may also require that any such documents and signatures delivered by telecopier or other electronic transmission be confirmed by a manually-signed original thereof; <u>provided</u> that the failure to request or deliver the same shall not limit the effectiveness of any document or signature delivered by telecopier or other electronic transmission.

* * *

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK.]

IN WITNESS WHEREOF, each Grantor and the Agent have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

> GRACENOTE, INC.; TRIBUNE BROADCASTING COMPANY, LLC; and TRIBUNE DIGITAL VENTURES, LLC. each as a Grantor

By: ______Name; Title:

JPMORGAN CHASE BANK, N.A., as Agent

By:

Name: John G. Kofyalezuk

Title: Executive Director

IN WITNESS WHEREOF, each Grantor and the Agent have caused this Agreement to be duly executed and delivered by their respective officers thereunto duly authorized as of the day and year first above written.

GRACENOTE, INC.;
TRIBUNE BROADCASTING
COMPANY, LLC; and
TRIBUNE DIGITAL VENTURES, LLC,
each as a Grantor

By:

Rapic: Jose Volder
Title: Assa. Treesure

JPMORGAN CHASE BANK, N.A.,
as Agent

By:

Name:

Title:

SCHEDULE I

Issued Patents

<u>Title</u>	Reg. No.	Issue Date	Owner
System and method for	8,955,025	2/10/2015	Tribune Broadcasting
Rejoining a Traffic Log Mode			Company, LLC
After a Breakout in a			
Broadcasting Environment			
System and Method for	8,955,026	2/10/2015	Tribune Broadcasting
Extending a Breakout in a		:	Company, LLC
Broadcasting Environment			
Systems and Methods for	8,953,891	2/10/2015	Tribune Broadcasting
Identifying a Black/Non-Black	7 6 6 6 6 6	:	Company, LLC
Frame Attribute			

Pending Patent Applications

Title	App. No.	Filing Date	Owner
Media Service	PCT/US14/66428	11/19/2014	Gracenote, Inc.
Modifying Operations Based on Acoustic Ambience Classification	PCT/US14/71105	12/18/2014	Gracenote, Inc.
Interactive Programming Guide	PCT/US14/72977	12/31/2014	Gracenote, Inc.
Approaches for Categorizing Content Stations	62/099398	1/2/2015	Gracenote, Inc.
Approaches for Recognizing Live Performances	62/099399	1/2/2015	Gracenote, Inc.
Approaches for Selecting Music Mood	62/099401	1/2/2015	Gracenote, Inc.

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		Filing	Owner
Title	App No. 14/632140	Date 2/26/15	Gracenote, Inc.
Systems, methods and Apparatus for Generating	14/032140	2120113	Gracenote, me.
an Audio-Visual			
Presentation Using			
Characteristics of Audio,			
Visual and Symbolic			
Media Objects			
Systems and methods for	2872209	11/21/2014	Tribune Broadcasting
Using Caller Data to Set	an or y an april or y	I I) WI I W I I	Company, Inc.
an Operational Mode of a			, , , , , , , , , , , , , , , , , , ,
Phone Switch			
News Production System	14/556636	12/1/2014	Tribune Broadcasting
with Dynamic Media	11100000		Company, LLC
Server			,,
System and Method for	14/584720	12/29/14	Tribune Broadcasting
Rejoining A Traffic Log			Company, LLC
Mode After a Breakout In			
A Broadcasting			
Environment	*******		
System and Method for	14/584972	12/29/14	Tribune Broadcasting
Extending A Breakout In A		:	Company, LLC
Broadcasting Environment			
Systems and Methods for	14/584975	12/29/14	Tribune Broadcasting
Identifying A Black/Non-			Company, LLC
Black Frame Attribute			
Method and System for	62/111474	2/3/15	Tribune Broadcasting
Localized Replacement of			Company, LLC
Base Content in Video			* * * * * * * * * * * * * * * * * * * *
Feed, with Replacement-			
Media Delivered in			
Broadcast-TV Transport			
Stream			
System and Methods for	14/622366	2/13/15	Tribune Broadcasting
Determining A Time			Company, LLC
Period Remaining Until A			
Live Production System			
Changes State			
Using a Digital Video	PCT/US15/16458	2/18/15	Tribune Broadcasting
Effect to Generate a Video			Company, Inc.
Stream		•	

		Filing	
Title	App. No.	Date	Owner
Use of A Program	App No. 14/626592	2/19/15	Tribune Broadcasting
Schedule to Modify An			Company, LLC
Electronic Dictionary of A			_
Closed-Captioning			
Generator			
Use of A Program	14/626598	2/19/15	Tribune Broadcasting
Schedule To Facilitate			Company, LLC
Modifying Closed-			
Captioning Text			
Use of Program-Schedule	14/627119	2/20/15	Tribune Broadcasting
Text and Closed			Company, LLC
Captioning Text to			
Facilitate Selection of a			
Portion of a Media-			
Program Recording			
Use of Program-Schedule	14/627164	2/20/15	Tribune Broadcasting
Text and Teleprompter			Company, LLC
Output to Facilitate			
Selection of a Portion of a			
Media-Program Recording			
News Production System	14/628771	2/23/15	Tribune Broadcasting
With Device Control Using			Company, LLC
Multiple Protocols			
News Production System	PCT/US15/17271	2/24/15	Tribune Broadcasting
with Display Controller			Company, LLC
Broadcast TV Delivery of	14/636575	3/3/15	Tribune Broadcasting
Replacement Commercials			Company, LLC
Systems and Methods for	2872209	11/21/14	Tribune Broadcasting
Using Caller Data to Set an	Canada	:	Company, LLC
Operational Mode of a			
Phone Switch			
Playout of Audible	PCT/US14/71206	12/18/14	Tribune Digital
Punctuation in Connection			Ventures, LLC
With Playout of Playlist			
Content			
Personalized News	PCT/US14/72217	12/23/14	Tribune Digital
Program			Ventures, LLC
Real Time Popularity	PCT/US14/72111	12/23/14	Tribune Digital
Based Audible Content			Ventures, LLC
Acquisition			

Title	App. No.	Filing Date	Owner
Audio File Quality and Accuracy Assessment	PCT/US14/72641	12/30/14	Tribune Digital Ventures, LLC
Use of an Anticipated Travel Duration as a Basis to Generate a Playlist	PC1/US14/72652	12/30/14	Tribune Digital Ventures, LLC
Use of A Remainder Duration as a Basis to Generate a Playlist	PCT/US14/72653	12/30/14	Tribune Digital Ventures, LLC
Generating a Playlist Based on a Data Generation Attribute	PCT/US14/72812	12/30/14	Tribune Digital Ventures, LLC
Retrieval and Playout of Media Content	PCT/US14/72817	12/30/14	Tribune Digital Ventures, LLC
Retrieval and Playout of Media Content	PCT/US14/72821	12/30/14	Tribune Digital Ventures, LLC
Retrieval and Playout of Media Content	PCI/US14/72825	12/30/14	Tribune Digital Ventures, LLC
Personalized News Program	PCT/US14/72829	12/30/14	Tribune Digital Ventures, LLC
Retrieval and Playout of Media Content	PC1/US14/72830	12/30/14	Tribune Digital Ventures, LLC
Method for Generating Data Representing Text	PCT/US14/72836	12/30/14	Tribune Digital Ventures, LLC