

## TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

ETAS ID: TM423588

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT		
<b>NATURE OF CONVEYANCE:</b>	Supplemental Security Agreement		
<b>CONVEYING PARTY DATA</b>			
<b>Name</b>	<b>Formerly</b>	<b>Execution Date</b>	<b>Entity Type</b>
Gracnote, Inc.		04/12/2017	Corporation: DELAWARE
Gracnote Media Services, LLC		04/12/2017	Limited Liability Company: DELAWARE
Gracnote Digital Ventures, LLC		04/12/2017	Limited Liability Company: DELAWARE
<b>RECEIVING PARTY DATA</b>			
<b>Name:</b>	Citibank, N.A., as Collateral Agent		
<b>Street Address:</b>	390 Greenwich Street		
<b>City:</b>	New York		
<b>State/Country:</b>	NEW YORK		
<b>Postal Code:</b>	10013		
<b>Entity Type:</b>	Association: UNITED STATES		
<b>PROPERTY NUMBERS Total: 18</b>			
<b>Property Type</b>	<b>Number</b>	<b>Word Mark</b>	
<b>Registration Number:</b>	4620489	ZAMPLE	
<b>Registration Number:</b>	4613539	ZAMPLE	
<b>Registration Number:</b>	4534819	EYEQ	
<b>Registration Number:</b>	4656589	HABU	
<b>Registration Number:</b>	3950162	TANGOAV	
<b>Registration Number:</b>	3290542	MUSICID	
<b>Registration Number:</b>	2637306	GRACENOTE	
<b>Registration Number:</b>	4172009	GRAVITY MOBILE	
<b>Registration Number:</b>	3509253	MEDIAVOCS	
<b>Registration Number:</b>	2578048		
<b>Registration Number:</b>	2361355	CDDB	
<b>Registration Number:</b>	3781103	TELEVISION WITHOUT PITY	
<b>Registration Number:</b>	1943605	CHANNEL GUIDE	
<b>Registration Number:</b>	1387817	TV DATA	
<b>Registration Number:</b>	2208560	US EXPRESS	
<b>Registration Number:</b>	2242218	RESEARCHTV	

OP \$465.00 4620489

TRADEMARK

Property Type	Number	Word Mark
Registration Number:	2223868	EZ TV
Registration Number:	3951098	ON

**CORRESPONDENCE DATA**

**Fax Number:** 8009144240

*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:** 800-713-0755

**Email:** Michael.Violet@wolterskluwer.com

**Correspondent Name:** Michael Violet

**Address Line 1:** 4400 Easton Commons Way

**Address Line 2:** Suite 125

**Address Line 4:** Columbus, OHIO 43219

<b>NAME OF SUBMITTER:</b>	Elaine Carrera
<b>SIGNATURE:</b>	/Elaine Carrera/
<b>DATE SIGNED:</b>	04/13/2017

**Total Attachments: 21**

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- source=26. Nielsen (2017) - IP Security Agreement Supplement (Execution Version) (Trademarks)\_#page2.tif
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- source=26. Nielsen (2017) - IP Security Agreement Supplement (Execution Version) (Trademarks)\_#page21.tif

SUPPLEMENT IP SECURITY AGREEMENT, dated as of April 10, 2017 (“**Supplement**”), to the Intellectual Property Security Agreement, in favor of CITIBANK, N.A., as Collateral Agent for the First Lien Secured Parties (the “**Collateral Agent**”) by the Grantor parties identified on the signature page hereto (“**Grantors**”).

A. Reference is made to (i) the Credit Agreement dated as of August 9, 2006, as amended January 22, 2007, as further amended August 9, 2007, as amended and restated as of June 23, 2009, as further amended and restated as of February 2, 2012, as further amended and restated as of February 28, 2013, as further amended and restated as of April 22, 2014, as further amended by that joinder agreement dated December 19, 2014 and as further amended by that joinder agreement dated May 12, 2015, as amended March 30, 2016, as amended October 4, 2016 (as further amended, supplemented or otherwise modified from time to time, the “**Credit Agreement**”), among Nielsen Finance LLC (the “**U.S. Borrower**”), TNC (US) Holdings Inc. (formerly known as VNU, Inc.), Nielsen Holding and Finance B.V. (formerly known as VNU Holding and Finance B.V., the “**Dutch Borrower**”), the Guarantors party thereto from time to time, Citibank, N.A., as Administrative Agent, Swing Line Lender and an L/C Issuer, each Lender from time to time party thereto, and the other parties thereto from time to time and (ii) the Intellectual Property Security Agreement dated as of August 9, 2006, and amended and restated as of June 23, 2009, among the Collateral Agent and other Grantor parties thereto (as further amended, supplemented or otherwise modified from time to time, the “**Intellectual Property Security Agreement**”).

B. Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the Credit Agreement and the Intellectual Property Security Agreement referred to therein.

C. The Grantors have entered into the Intellectual Property Security Agreement in order to induce the Lenders to make Loans and the L/C Issuers to issue Letters of Credit and to induce the providers under each Permitted Debt Offering Agreement to extend credit.

Accordingly, the Collateral Agent and the Grantors agree as follows:

SECTION 1. The Grantors, as security for the payment and performance in full of the First Lien Obligations, does hereby create and grant to the Collateral Agent, its successors and assigns, for the benefit of the First Lien Secured Parties, their successors and assigns, a security interest in and lien on all of the Grantor’s right, title and interest in and to the Collateral (as defined in the Intellectual Property Security Agreement) identified on Schedule I attached hereto (the “**Supplemental Collateral**”). The Intellectual Property Security Agreement is hereby incorporated herein by reference.

SECTION 2. This Supplement may be executed in counterparts (and by different parties hereto on different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery by facsimile or email of an executed counterpart of a signature page to this Supplement shall be effective as delivery of an original executed counterpart of this Supplement.

SECTION 3. Intentionally Omitted.

SECTION 4. Except as expressly supplemented hereby, the Intellectual Property Security Agreement shall remain in full force and effect.

**SECTION 5. THIS SUPPLEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK.**

SECTION 6. In case any one or more of the provisions contained in this Supplement should be held invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein and in the Intellectual Property Security Agreement shall not in any way be affected or impaired thereby (it being understood that the invalidity of a particular provision in a particular jurisdiction shall not in and of itself affect the validity of such provision in any other jurisdiction). The parties hereto shall endeavor in good-faith negotiations to replace the invalid, illegal or unenforceable provisions with valid provisions the economic effect of which comes as close as possible to that of the invalid, illegal or unenforceable provisions.

SECTION 7. All communications and notices hereunder shall be in writing and given as provided in Section 5.01 of the Intellectual Property Security Agreement.

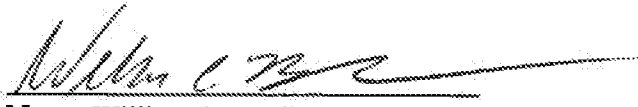
SECTION 8. The Grantors agree to reimburse the Collateral Agent for its reasonable out-of-pocket expenses in connection with this Supplement, including the reasonable fees, other charges and disbursements of counsel for the Collateral Agent.

IN WITNESS WHEREOF, the Grantors and the Collateral Agent have duly executed this Supplement to the Intellectual Property Security Agreement as of the day and year first above written.

**Grantor:**

Gracernote, Inc.,

by

  
Name: William C. Bradley  
Title: Vice President and Treasurer

Legal Name:	Gracernote, Inc.
Jurisdiction of Formation:	Delaware
Location of Chief Executive office:	85 Broad Street New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

by \_\_\_\_\_

Name:  
Title:

IN WITNESS WHEREOF, the Grantors and the Collateral Agent have duly executed this Supplement to the Intellectual Property Security Agreement as of the day and year first above written.

**Grantor:**

Gracernote, Inc.,

by \_\_\_\_\_

Name:

Title:

Legal Name:	Gracernote, Inc.
Jurisdiction of Formation:	Delaware
Location of Chief Executive office:	85 Broad Street New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

by \_\_\_\_\_

Name: Keith Lukasavich

Title: Vice President &  
Managing Director

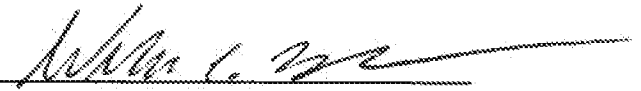
[Signature Page to IP Supplement]

**TRADEMARK**

**REEL: 006034 FRAME: 0581**

**Grantor:**

Gracernote Media Services, LLC

by   
Name: William C. Bradley  
Title: Vice President and Treasurer

Legal Name: Gracernote Media Services, LLC  
Jurisdiction of Formation: Delaware  
Location of Chief Executive office: 85 Broad Street  
New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

by \_\_\_\_\_  
Name:  
Title:

**Grantor:**

Gracernote Media Services, LLC,

by \_\_\_\_\_  
Name:  
Title:

Legal Name: Gracernote Media Services, LLC  
Jurisdiction of Formation: Delaware  
Location of Chief Executive office: 85 Broad Street  
New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

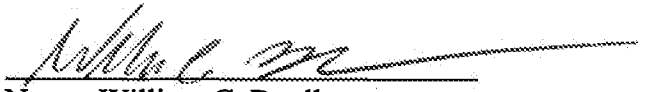
by   
Name: Keith Lukasavich  
Title: Vice President &  
Managing Director

[Signature Page to IP Supplement]



**Grantor:**

Gracenote Digital Ventures, LLC

by 

Name: William C. Bradley  
Title: Vice President and Treasurer

Legal Name: Gracenote Digital Ventures, LLC  
Jurisdiction of Formation: Delaware  
Location of Chief Executive office: 85 Broad Street  
New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

by \_\_\_\_\_  
Name:  
Title:

Grantor:

Gracernote Digital Ventures, LLC,

by \_\_\_\_\_  
Name:  
Title:

Legal Name: Gracernote Digital Ventures, LLC  
Jurisdiction of Formation: Delaware  
Location of Chief Executive office: 85 Broad Street  
New York, NY 10004

CITIBANK, N.A.,  
as Collateral Agent,

by   
Name: Keith Lukasavich  
Title: Vice President &  
Managing Director

[Signature Page to IP Supplement]

## United States Intellectual Property

### U.S. Copyright Registrations:

	Claimant	Title	Registration No.	Registration Date
1.	Gracernote, Inc.	Cool tunes for hot times	SR0000096514	09/19/1988
2.	Gracernote, Inc.	Cool tunes for hot times : for recorder.	PA0000384947	09/19/1988
3.	Gracernote, Inc.	Cool tunes for hot times : for recorder, level two : lesson plans / [music composed, arr., and performed by Michael Katz for Gracernote, Inc. ; lyrics Michael Katz, Jennifer Katz ; title art Jennifer Katz]	TX0002425824	09/19/1988
4.	Gracernote, Inc.	JumpStart! : for flute : a collection of songs and exercises to put some zip! in your practicing.	PA0000414664	05/02/1989
5.	Gracernote, Inc.	JumpStart! : for trumpet : a collection of songs and exercises to put some zip! in your practicing.	PA0000414663	05/02/1989
6.	Gracernote, Inc.	Toot sweet : for recorder.	PA0000379874	08/08/1988
7.	Gracernote, Inc.	Toot sweet : for recorder.	SR0000096044	08/08/1988
8.	Gracernote, Inc.	Toot sweet: for recorder, level one / [music composed, arr. and performed by Michael Katz ; title art Jennifer Katz].	TX0002451163	08/08/1988
9.	Gracernote, Inc.	F natural B flat blues / by Michael Katz.	PA0000516135	01/02/1991
10.	Gracernote, Inc.	F natural B flat blues / by Michael Katz.	SR0000128744	01/02/1991
11.	Gracernote, Inc.	GN Service S3 (ver. 1.0)	TXu001707263	07/22/2010
12.	Gracernote, Inc.	Gracernote client service protocol 5.2.	TXu001363873	05/31/2007
13.	Gracernote, Inc.	Gracernote embedded toolkit SDK 4.3.	TXu001348602	04/03/2007
14.	Gracernote, Inc.	Gracernote lyrics database.	TXu001352153	04/20/2007
15.	Gracernote, Inc.	Gracernote media database 040207	TXu001371474	04/03/2007
16.	Gracernote, Inc.	Gracernote Media Database (111010)	TXu001769937	11/10/2010
17.	Gracernote, Inc.	Gracernote MediaVOCS Version 4.8.	TX0006933486	12/04/2008
18.	Gracernote, Inc.	Gracernote PC SDK 2.5.	TXu001369783	04/03/2007
19.	Gracernote, Inc.	Gracernote Server SDK.	TXu001696383	05/26/2010
20.	Gracernote, Inc.	Gracernote service software 012607 build.	TXu001348048	04/03/2007
21.	Gracernote, Inc.	JumpStart! for band : trumpet.	PA0000445297	11/16/1989
22.	Gracernote, Inc.	JumpStart! for band : trumpet.	SR0000110645	11/16/1989
23.	Gracernote, Inc.	JumpStart! for ear training : Doubletalk.	SR0000108160	11/16/1989
24.	Gracernote, Inc.	JumpStart! for flute.	PA0000462353	02/26/1990

	Claimant	Title	Registration No.	Registration Date
25.	Gracernote, Inc.	JumpStart! for flute.	SR0000115433	02/26/1990
26.	Gracernote, Inc.	JumpStart! recorder reader and recorder trios.	PA0000445298	11/16/1989
27.	Gracernote, Inc.	JumpStart! recorder reader and recorder trios.	SR0000110646	11/16/1989
28.	Gracernote, Inc.	Messin' around / Michael & Jennifer Katz.	PA0000516134	01/02/1991
29.	Gracernote, Inc.	Messin' around / Michael & Jennifer Katz.	SR0000128743	01/02/1991
30.	Gracernote, Inc.	Moonclouds : for recorder(s) and piano / Michael Katz.	PA0000514750	01/02/1991
31.	Gracernote, Inc.	Suite for do re mi : for recorder and piano / by Michael Katz.	PA0000514751	01/02/1991

U.S. Patents and Applications:

	<b>Assignee</b>	<b>Patent Title</b>	<b>Serial No. Filing Date</b>	<b>Patent No. Issue Date</b>
1.	Gracenote, Inc.	Method and system for finding approximate matches in database	10281948 10/29/2002	7167857 01/23/2007
2.	Gracenote, Inc.	Finding database match for file based on file characteristics	09621619 07/21/2000	7228280 06/05/2007
3.	Gracenote, Inc.	Method of enhancing rendering of content item, client system and server system	09933845 08/21/2001	7904503 03/08/2011
4.	Gracenote, Inc.	Method and device for generating and detecting fingerprints for synchronizing audio and video	10566003 01/20/2006	7907211 03/15/2011
5.	Gracenote, Inc.	Method and system for media navigation	11716269 03/09/2007	7908273 03/15/2011
6.	Gracenote, Inc.	Method and device for generating and detecting a fingerprint functioning as a trigger marker in a multimedia signal	10564297 01/10/2006	8020000 09/13/2011
7.	Gracenote, Inc.	Apparatus and method for determining a prominent tempo of an audio work	12436718 05/06/2009	8071869 12/06/2011
8.	Gracenote, Inc.	Selection of content from a stream of video or audio data	11573455 02/09/2007	8406607 03/26/2013
9.	Gracenote, Inc.	Static toc indexing system and method	12961470 12/06/2010	8472289 06/25/2013
10.	Gracenote, Inc.	Methods and apparatus for determining a mood profile associated with media data	12489861 06/23/2009	8805854 08/12/2014
11.	Gracenote, Inc.	User interface to media files	13345615 01/06/2012	8855798 10/07/2014
12.	Gracenote, Inc.	Method and system for presenting additional content at a media system	13286138 10/31/2011	8863165 10/14/2014
13.	Gracenote, Inc.	Systems, methods, and apparatus for generating an audio-visual presentation using characteristics of audio, visual and symbolic media objects	12985690 01/06/2011	8996538 03/31/2015
14.	Gracenote, Inc.	Authorizing devices based on identifying content distributor	13826606 03/14/2013	8997164 03/31/2015
15.	Gracenote, Inc.	Method and system for remotely controlling consumer electronic devices	12760004 04/14/2010	9015741 04/21/2015
16.	Gracenote, Inc.	Text detection in video	14289142 05/28/2014	9036083 05/19/2015
17.	Gracenote, Inc.	Media source identification	13224172 09/01/2011	9049496 06/02/2015
18.	Gracenote, Inc.	Synthesizing a presentation of a multimedia event	12239082 09/26/2008	9106804 08/11/2015
19.	Gracenote, Inc.	Method and apparatus for selection of content from a stream of data	13778439 02/27/2013	9143718 09/22/2015
20.	Gracenote, Inc.	Search and identification of video content	13839782 03/15/2013	9146990 09/29/2015
21.	Gracenote, Inc.	Interactive streaming content apparatus, systems and methods	13287871 11/02/2011	9160837 10/13/2015
22.	Gracenote, Inc.	Systems, methods, and apparatus for generating an audio-visual presentation using characteristics of audio, visual and symbolic media objects	14632140 02/26/2015	9213747 12/15/2015
23.	Gracenote, Inc.	Audio fingerprinting	14107923 12/16/2013	9286902 03/15/2016

	<b>Assignee</b>	<b>Patent Title</b>	<b>Serial No. Filing Date</b>	<b>Patent No. Issue Date</b>
24.	Gracenote, Inc.	Video fingerprinting	14263647 04/28/2014	9323840 04/26/2016
25.	Gracenote, Inc.	Content-based association of device to user	14446559 07/30/2014	9356914 05/31/2016
26.	Gracenote, Inc.	Detecting an event within interactive media including spatialized multi-channel audio content	13795877 03/12/2013	9372531 06/21/2016
27.	Gracenote, Inc.	Modifying playback of content using pre-processed profile information	14020420 09/06/2013	9380383 06/28/2016
28.	Gracenote, Inc.	Identifying video content via color-based fingerprint matching	14061043 10/23/2013	9465995 10/11/2016
29.	Gracenote, Inc.	Identifying video content via fingerprint matching	13735426 01/07/2013	9495451 11/15/2016
30.	Gracenote, Inc.	Audio matching based on harmonogram	14980622 12/28/2015	9501568 11/22/2016
31.	Gracenote, Inc.	TV Content Segmentation, Categorization and Identification and Time-Aligned Applications	13327359 12/15/2011	9510044 11/29/2016
32.	Gracenote, Inc.	Interactive programming guide	14147320 01/03/2014	9510057 11/29/2016
33.	Gracenote, Inc.	Media source identification	14695394 04/24/2015	9560102 01/31/2017
34.	Gracenote, Inc.	Authorizing devices based on identifying content distributor	14640253 03/06/2015	9596490 03/14/2017
35.	Gracenote, Inc.	Multiple step identification of recordings	10208189 07/31/2002	
36.	Gracenote, Inc.	Systems and methods for generating and employing a social media graph	13480339 05/24/2012	
37.	Gracenote, Inc.	User profile based on clustering tiered descriptors	13611740 09/12/2012	
38.	Gracenote, Inc.	Inserting advertisements into video content	13826282 03/14/2013	
39.	Gracenote, Inc.	Matching versions of a known song to an unknown song	13838810 03/15/2013	
40.	Gracenote, Inc.	Displaying an actionable element over playing content	14020295 09/06/2013	
41.	Gracenote, Inc.	Inserting information into playing content	14020480 09/06/2013	
42.	Gracenote, Inc.	Media service	14135173 12/19/2013	
43.	Gracenote, Inc.	Modification of electronic system operation based on acoustic ambience classification	14147366 01/03/2014	
44.	Gracenote, Inc.	Targeted ad redistribution	14206497 03/12/2014	
45.	Gracenote, Inc.	Audio identification during performance	14258263 04/22/2014	
46.	Gracenote, Inc.	Method and device for generating and detecting fingerprints for synchronizing audio and video	14333190 07/16/2014	
47.	Gracenote, Inc.	Method and system for remotely controlling consumer electronic devices	14659971 03/17/2015	
48.	Gracenote, Inc.	Synthesizing a presentation of a multimedia event	14694624 04/23/2015	
49.	Gracenote, Inc.	Text detection in video	14694719 04/23/2015	

	<b>Assignee</b>	<b>Patent Title</b>	<b>Serial No. Filing Date</b>	<b>Patent No. Issue Date</b>
50.	Gracenote, Inc.	Search and identification of video content	14828293 08/17/2015	
51.	Gracenote, Inc.	Machine-control of a device based on machine-detected transitions	14849370 09/09/2015	
52.	Gracenote, Inc.	Systems, methods, and apparatus for generating an audio-visual presentation using characteristics of audio, visual and symbolic media objects	14932781 11/04/2015	
53.	Gracenote, Inc.	Machine-led mood change	14980650 12/28/2015	
54.	Gracenote, Inc.	Broadcast profiling system	14982293 12/29/2015	
55.	Gracenote, Inc.	Station library creation for a media service	14986153 12/31/2015	
56.	Gracenote, Inc.	Detecting an event within interactive media including spatialized multi-channel audio content	1503658 01/21/2016	
57.	Gracenote, Inc.	Audio fingerprinting	15008042 01/27/2016	
58.	Gracenote, Inc.	Video fingerprinting	15136412 04/22/2016	
59.	Gracenote, Inc.	Content-based association of device to user	15140706 04/28/2016	
60.	Gracenote, Inc.	Modifying playback of content using pre-processed profile information	15186945 06/20/2016	
61.	Gracenote, Inc.	Method and apparatus for selection of content from a stream of data	15204366 07/07/2016	
62.	Gracenote, Inc.	Method and apparatus for selection of content from a stream of data	15285056 10/04/2016	
63.	Gracenote, Inc.	Identifying video content via color-based fingerprint matching	15286787 10/06/2016	
64.	Gracenote, Inc.	Identifying video content via fingerprint matching	15287063 10/06/2016	
65.	Gracenote, Inc.	Method and system for remotely controlling consumer electronic devices	15287116 10/06/2016	
66.	Gracenote, Inc.	Method and system for remotely controlling consumer electronic devices	15292705 10/13/2016	
67.	Gracenote, Inc.	Audio matching based on harmonogram	15298601 10/20/2016	
68.	Gracenote, Inc.	Interactive programming guide	15334752 10/26/2016	
69.	Gracenote, Inc.	Method and system for presenting additional content at a media system	15375698 12/12/2016	
70.	Gracenote, Inc.	Network Delivery Of Interactive Entertainment Complementing Audio Recordings	08/838,082	5,987,525
71.	Gracenote, Inc.	Method And System For Finding Approximate Matches In Database	09/354,167	6,061,680
72.	Gracenote, Inc.	Network Delivery Of Interactive Entertainment Complementing Audio Recordings	09/060,876	6,154,773
73.	Gracenote, Inc.	System For Synchronizing Playback Of Recordings And Display By Networked Computer Systems	09/379,588	6,161,132
74.	Gracenote, Inc.	Method And System For Accessing Remote Data Based On Playback Of Recordings	09/354,166	6,230,192
75.	Gracenote, Inc.	Network Delivery Of Interactive Entertainment Complementing Audio Recordings	09/354,165	6,230,207

	<b>Assignee</b>	<b>Patent Title</b>	<b>Serial No. Filing Date</b>	<b>Patent No. Issue Date</b>
76.	Gracenote, Inc.	Network Delivery Of Interactive Entertainment Synchronized to Playback of Audio Recordings	09/354,164	6,240,459
77.	Gracenote, Inc.	System For Collecting Use Data Related To Playback Of Recordings	09/379,589	6,330,593
78.	Gracenote, Inc.	Ex Parte Reexamination Of Patent No. 6,330,593	90/011,270	6,330,593
79.	Gracenote, Inc.	Automatic Identification Of DVD Title Using Internet Technologies And Fuzzy Matching Techniques	10/002,627	6,983,289
80.	Gracenote, Inc.	Apparatus For Analyzing An Audio Signal With Regard To Rhythm Information Of The Audio Signal By Using An Autocorrelation Function	10/713,691	7,012,183
81.	Gracenote, Inc.	Audio Fingerprinting System And Method	10/668,926	7,013,301
82.	Gracenote, Inc.	Method And System For Accessing Web Pages Based On Playback Of Recordings	09/820,722	7,308,485
83.	Gracenote, Inc.	Automatic Identification Of Sound Recordings	10/200,034	7,328,153
84.	Gracenote, Inc.	Efficient Storage Of Fingerprints	10/503,245	7,477,739
85.	Gracenote, Inc.	System And Method For Recognizing Audio Pieces Via Audio Fingerprinting	11/345,548	7,487,180
86.	Gracenote, Inc.	Fingerprint Database Updating Method, Client And Server	10/495,283	7,523,312
87.	Gracenote, Inc.	Generating And Matching Hashes Of Multimedia Content	10/073,772	7,549,052
88.	Gracenote, Inc.	System And Method For Generating And Using Table Of Content (TOC) Prints	11/512,625	7,590,035
89.	Gracenote, Inc.	Sharing Music Essence In A Recommendation System	11/439,723	7,613,736
90.	Gracenote, Inc.	Method And System For Accessing Web Pages Based On Playback Of Recordings	11/841,784	7,680,902
91.	Gracenote, Inc.	Method Of Enhancing Rendering Of A Content Item, Client System And Server System	11/432,989	7,849,131
92.	Gracenote, Inc.	Automatic Identification Of DVD Title Using Internet Technologies And Fuzzy Matching Techniques	10/917,686	7,856,443
93.	Gracenote, Inc.	Automatic Identification Of Sound Recordings	12/025,373	7,881,931
94.	Gracenote, Inc.	Generating And Matching Hashes Of Multimedia Content	11/800,904	7,921,296
95.	Gracenote, Inc.	Method And System For Accessing Web Pages Based On Playback Of Recordings	12/686,216	7,945,645
96.	Gracenote, Inc.	Method And Apparatus For Multi-Dimensional Content Search And Video Identification	12/141,337	8,171,030
97.	Gracenote, Inc.	Digital Video Content Fingerprinting Based on Scale Invariant Interest Region Detection with an Array of Anisotropic Filters	12/612,729	8,189,945
98.	Gracenote, Inc.	Media Fingerprinting And Identification System	12/772,566	8,195,689
99.	Gracenote, Inc.	Methods And Apparatus For Providing A Scalable Identification Of Digital Video Sequences	12/141,163	8,229,227
100.	Gracenote, Inc.	Music Searching Methods Based On Human	09/556,086	8,326,584



	<b>Assignee</b>	<b>Patent Title</b>	<b>Serial No. Filing Date</b>	<b>Patent No. Issue Date</b>
		Perception		
101.	Gracernote, Inc.	Multi-Media Content Identification Using Multi-Level Content Signature Correlation And Fast Similarity Search	12/788,796	8,335,786
102.	Gracernote, Inc.	Method And Device For Generating And Detecting Fingerprints For Synchronizing Audio And Video	13/024,069	8,358,376
103.	Gracernote, Inc.	Media Fingerprinting And Identification System	13/463,137	8,364,703
104.	Gracernote, Inc.	Digital Video Fingerprinting Based on Resultant Weighted Gradient Orientation Computation	12/491,896	8,385,644
105.	Gracernote, Inc.	Multiple Step Identification Of Recordings	12/720,537	8,468,357
106.	Gracernote, Inc.	A Scalable, Adaptable, And Manageable System For Multimedia Identification	13/102,479	8,655,878
107.	Gracernote, Inc.	Method And Device For Generating And Detecting A Fingerprint Functioning As A Trigger Marker In A Multimedia Signal	13/220,267	8,660,267
108.	Gracernote, Inc.	Digital Video Content Fingerprinting Using Image Pixel Intensity And Color Information	12/955,416	8,666,152
109.	Gracernote, Inc.	Methods And Apparatus For Providing A Scalable Identification Of Digital Video Sequences	13/488,568	8,666,168
110.	Gracernote, Inc.	Media Fingerprinting And Identification System	13/719,603	8,688,731
111.	Gracernote, Inc.	Digital Video Content Fingerprinting Based On Scale Invariant Interest Region Detection With An Array Of Anisotropic Filters	13/455,560	8,781,245
112.	Gracernote, Inc.	Music Searching Methods Based On Human Perception	13/667,683	8,805,657
113.	Gracernote, Inc.	Method And Device For Generating And Detecting Fingerprints For Synchronizing Audio And Video	13/739,349	8,817,183
114.	Gracernote, Inc.	Distributed and Tiered Architecture for Content Search and Content Monitoring	13/276,110	8,959,108
115.	Gracernote, Inc.	A Scalable, Adaptable, and Manageable System for Multimedia Identification	14/151,294	8,965,863
116.	Gracernote, Inc.	Media Fingerprinting And Identification System	14/059,688	9,053,104
117.	Gracernote, Inc.	A Scalable, Adaptable, and Manageable System for Multimedia Identification	14/151,335	9,058,355
118.	Gracernote, Inc.	Method And Device For Generating And Detecting A Fingerprint Functioning As A Trigger Marker In A Multimedia Signal	14/151,879	9,066,114
119.	Gracernote, Inc.	Media Fingerprinting And Identification System	14/711,054	9,195,663
120.	Gracernote, Inc.	Distributed and Tiered Architecture For Content Search And Content Monitoring	14/589,366	9,262,421
121.	Gracernote, Inc.	Audio Content Fingerprinting Based On Two-Dimensional Constant Q-Factor Transform Representation and Robust Audio Identification For Time-Aligned Applications	13/647,996	9,299,364
122.	Gracernote, Inc.	Media Content Identification on Mobile Devices	13/590,701	9,313,359
123.	Gracernote, Inc.	Media Fingerprinting And Identification System	14/885,110	9,323,754

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124.	Gracernote, Inc.	Method And Apparatus For Multi-Dimensional Content Search And Video Identification	13/432,914	9,323,841
125.	Gracernote, Inc.	Method For Efficient Database Formation And Search On Media Devices Acting Synchronously With Television Programming	13/826,502	9,367,544
126.	Gracernote, Inc.	Digital Video Content Fingerprinting Based On Scale Invariant Interest Region Detection With An Array Of Anisotropic Filters	14/298,261	9,396,393
127.	Gracernote, Inc.	Method And Device For Generating And Detecting A Fingerprint Functioning As A Trigger Marker In A Multimedia Signal	14/659,044	9,407,962
128.	Gracernote, Inc.	Method And Apparatus For Selection Of Content From A Stream Of Data	14/789,048	9,414,008
129.	Gracernote, Inc.	Distributed And Tiered Architecture For Content Search And Content Monitoring	14/990,565	9,436,689
130.	Gracernote, Inc.	Media Fingerprinting And Identification System	15/073,858	9,471,674
131.	Gracernote, Inc.	Method And Device For Generating And Detecting A Fingerprint Functioning As A Trigger Marker In A Multimedia Signal	15/164,605	9,479,831
132.	Gracernote, Inc.	Method And Apparatus For Multi-Dimensional Content Search And Video Identification	15/078,056	9,489,455
133.	Gracernote, Inc.	Multiple Step Identification Of Recordings	12/720,550	
134.	Gracernote, Inc.	Systems And Methods To Associate Multimedia Tags With User Comments And Generate User Modifiable Snippets Around A Tag Time For Efficient Storage And Sharing Of Tagged Items	14/255,742	
135.	Gracernote, Inc.	Methods And Apparatus For Determining A Mood Profile Associated With Media Data	14/312,007	
136.	Gracernote, Inc.	Music Searching Methods Based On Human Perception	14/329,368	
137.	Gracernote, Inc.	User Interface To Media Files	14/462,402	
138.	Gracernote, Inc.	Scalable, Adaptable, And Manageable System For Multimedia Identification	14/718,218	
139.	Gracernote, Inc.	System And Method For Cross-Library Recommendation	14/729,514	
140.	Gracernote, Inc.	Generating And Distributing Playlists With Related Music And Stories	15/043,059	
141.	Gracernote, Inc.	Generating And Distributing Playlists With Music And Stories Having Related Moods	15/043,073	
142.	Gracernote, Inc.	Generating And Distributing A Replacement Playlist	15/043,085	
143.	Gracernote, Inc.	Audio Content Fingerprinting Based On Two-Dimensional Constant Q-Factor Transform Representation And Robust Audio Identification for Time-Aligned Applications	15/050,123	
144.	Gracernote, Inc.	Media Content Identification On Mobile Devices	15/053,064	
145.	Gracernote, Inc.	Selecting Balanced Clusters Of Descriptive Vectors	15/063,170	
146.	Gracernote, Inc.	Matching Audio Fingerprints	15/115,733	

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147.	Gracenote, Inc.	Digital Fingerprint Indexing	15/134,071	
148.	Gracenote, Inc.	Method For Efficient Database Formation And Search On Media Devices Acting Synchronously With Television Programming	15/155,428	
149.	Gracenote, Inc.	Distributed And Tiered Architecture For Content Search And Content Monitoring	15/163,004	
150.	Gracenote, Inc.	Logo Recognition In Images And Videos	15/172,826	
151.	Gracenote, Inc.	Media Channel Identification With Multi-Match Detection And Disambiguation Based on Location	15/179,143	
152.	Gracenote, Inc.	Responding To Remote Media Classification Queries Using Classifier Models And Context Parameters	15/185,616	
153.	Gracenote, Inc.	Model-Based Media Classification Service Using Sensed Media Noise Characteristics	15/185,654	
154.	Gracenote, Inc.	Digital Video Content Fingerprinting Based On Scale Invariant Interest Region Detection With An Array Of Anisotropic Filters	15/186,901	
155.	Gracenote, Inc.	Computing System With Video Content Generation Feature	15/209,452	
156.	Gracenote, Inc.	Computing System With DVE Template Selection And Video Content Item Generation Feature	15/209,483	
157.	Gracenote, Inc.	Computing System With DVE Template Selection And Video Content Item Generation Feature	15/209,490	
158.	Gracenote, Inc.	Computing System With DVE Template Selection And Video Content Item Generation Feature	15/209,515	
159.	Gracenote, Inc.	Media Channel Identification With Multi-Match Detection And Disambiguation Based On Single-Match	15/222,405	
160.	Gracenote, Inc.	Media Channel Identification With Video Multi-Match Detection And Disambiguation Based On Audio Fingerprint	15/253,354	
161.	Gracenote, Inc.	Media Fingerprinting And Identification System	15/265,002	
162.	Gracenote, Inc.	Method And Device For Generating And Detecting A Fingerprint Functioning As A Trigger Marker In A Multimedia Signal	15/273,185	
163.	Gracenote, Inc.	Method And Apparatus For Multi-Dimensional Content Search And Video Identification	15/290,364	
164.	Gracenote, Inc.	TV Content Segmentation, Categorization And Identification And Time-Aligned Applications	15/297,658	
165.	Gracenote, Inc.	Audiovisual Content Curation System	15/343,884	
166.	Gracenote, Inc.	Video ACR Multi-Match Resolution Based on Time of Broadcast	15/343,895	
167.	Gracenote, Inc.	Media Source Identification	15/375,818	
168.	Gracenote, Inc.	DYNAMIC CONTENT DELIVERY BASED ON VEHICLE NAVIGATIONAL ATTRIBUTES	15/380,950	
169.	Gracenote, Inc.	Dynamic Video Overlays	15/381,496	
170.	Gracenote, Inc.	Dynamic Video Overlays	15/381,497	

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171.	Gracernote, Inc.	Dynamic Video Overlays	15/381,513	
172.	Gracernote, Inc.	Dynamic Video Overlays	15/381,556	
173.	Gracernote, Inc.	Dynamic Video Overlays	15/381,572	
174.	Gracernote, Inc.	Computing System with Channel-Change-Based Trigger Feature	15/399,404	
175.	Gracernote, Inc.	Computing System with Content-Characteristic-Based Trigger Feature	15/399,415	
176.	Gracernote, Inc.	Authorizing Devices Based On Identifying Content Distributor	15/406,887	
177.	Gracernote, Inc.	Indexing Fingerprints	15/445,615	
178.	Gracernote, Inc.	Digital Video Fingerprinting Using Motion Segmentation	15/456,856	
179.	Gracernote, Inc.	Robust Audio Identification With Interference Cancellation	15/456,859	
180.	Gracernote, Inc.	A Method To Differentiate And Classify Fingerprints Using Fingerprint Neighborhood Analysis	15/456,861	
181.	Gracernote, Inc.	RADIO STATION IDENTIFICATION USING GEOLOCATION AND FREQUENCY	15/474,255	
182.	Gracernote, Inc.	Generating a Video Presentation to Accompany Audio	15/474,305	
183.	Gracernote, Inc.	Synchronizing Streaming Media Content Across Devices	15/475,345	
184.	Gracernote, Inc.	Multiple Stage Audio Content Indexing	15/475,459	
185.	Gracernote, Inc.	Music Service with Motion Video	15/475,488	
186.	Gracernote, Inc.	Playback Settings Profile Generation	62/351,980	
187.	Gracernote, Inc.	Artist Disambiguation	62/355,522	
188.	Gracernote, Inc.	Characterizing Audio Using A Data Structure	62/381,801	
189.	Gracernote, Inc.	Systems And Methods For Generating Sporting Event Data For A Vehicle	62/382,802	
190.	Gracernote, Inc.	Audio Identification Based On Data Structure	62/385,574	
191.	Gracernote, Inc.	Overlay Detection with Recurrent Deep Neural Networks	62/418,517	
192.	Gracernote, Inc.	Overlay Detection with Recurrent Deep Neural Networks	62/421,639	
193.	Gracernote, Inc.	Lighting Effects Indicating Events and/or Mood Associated with Playing Media	62/433,018	
194.	Gracernote, Inc.	RADIO STATION IDENTIFICATION USING GEOLOCATION AND FREQUENCY	62/440,876	
195.	Gracernote, Inc.	AUTOMATED COVER SONG IDENTIFICATION	62/441,469	
196.	Gracernote Digital Ventures, LLC	Real time popularity based audible content acquisition	14196908 03/04/2014	9431002 08/30/2016

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197.	Gracenote Digital Ventures, LLC	Generating a playlist based on a data generation attribute	14196870 03/04/2014	9454342 09/27/2016
198.	Gracenote Digital Ventures, LLC	Personalized News Program	14/196774 03/04/2014	
199.	Gracenote Digital Ventures, LLC	Dynamic Payout of Audible Punctuation in Connection with Payout of Playlist Content	14/196789 03/04/2014	
200.	Gracenote Digital Ventures, LLC	Use of an anticipated travel duration as a basis to generate a playlist	14/196932 03/04/2014	
201.	Gracenote Digital Ventures, LLC	Personalized News Program	14/220970 03/20/2014	
202.	Gracenote Digital Ventures, LLC	Audio File Quality and Accuracy Assessment	14/280259 05/16/2014	
203.	Gracenote Digital Ventures, LLC	Retrieval and payout of media content	14/280337 05/16/2014	
204.	Gracenote Digital Ventures, LLC	Retrieval and payout of media content	14/280350 05/16/2014	
205.	Gracenote Digital Ventures, LLC	Use of a remainder duration as a basis to generate a playlist	14/281356 05/19/2014	
206.	Gracenote Digital Ventures, LLC	Computing device and corresponding method for generating data representing text	14/322611 07/02/2014	
207.	Gracenote Digital Ventures, LLC	Computing device and corresponding method for generating data representing text	14/322627 07/02/2014	
208.	Gracenote Digital Ventures, LLC	Computing device and corresponding method for generating data representing text	14/322633 07/02/2014	
209.	Gracenote Digital Ventures, LLC	Retrieval and payout of media content	14/341503 07/25/2014	
210.	Gracenote Digital Ventures, LLC	Retrieval and payout of media content	14/341521 07/25/2014	
211.	Gracenote Digital Ventures, LLC	Real Time Popularity Based Audible Content Acquisition	15/223278 07/29/2016	
212.	Gracenote Digital Ventures, LLC	Generating a Playlist Based on a Data Generation Attribute	15/244561 08/23/2016	
213.	Gracenote Digital Ventures, LLC		15/387327 12/21/2016	
214.	Gracenote Digital Ventures, LLC		15/387345 12/21/2016	
215.	Gracenote Digital Ventures, LLC		15/387351 12/21/2016	
216.	Gracenote Media Services, LLC	Real world/virtual world correlation system using 3D graphics pipeline	09/704387 10/31/2000	6778171 08/17/2004
217.	Gracenote Media Services, LLC	System and method for determining and notifying users of the expected time-channel for a television series	09840948 04/24/2001	7299483 11/20/2007
218.	Gracenote Media Services, LLC	Distribution of real-time entertainment scheduling data	10265564 10/04/2002	7971218 06/28/2011

U.S. Trademark Registrations and Applications:

	<b>Owner</b>	<b>Trademark</b>	<b>Serial No. Filing Date</b>	<b>Reg. No. Reg. Date</b>
1.	Gracenote, Inc.	ZAMPLE	86208135 02/28/2014	4620489 10/14/2014
2.	Gracenote, Inc.	ZAMPLE	86208127 02/28/2014	4613539 09/30/2014
3.	Gracenote, Inc.	EYEQ	85977627 05/16/2011	4534819 05/20/2014
4.	Gracenote, Inc.	HABU	85525027 01/25/2012	4656589 12/16/2014
5.	Gracenote, Inc.	TANGOAV	85006742 04/05/2010	3950162 04/26/2011
6.	Gracenote, Inc.	MUSICID	78814399 02/14/2006	3290542 09/11/2007
7.	Gracenote, Inc.	GRACENOTE	78015093 06/30/2000	2637306 10/15/2002
8.	Gracenote, Inc.	GRAVITY MOBILE	77723854 04/28/2009	4172009 07/10/2012
9.	Gracenote, Inc.	MEDIAVOCS	77068693 12/20/2006	3509253 09/30/2008
10.	Gracenote, Inc.	DESIGN ONLY	76221685 03/08/2001	2578048 06/11/2002
11.	Gracenote, Inc.	CDDB	75532494 08/07/1998	2361355 06/27/2000
12.	Gracenote Digital Ventures, LLC	TELEVISION WITHOUT PITY	77830353 09/18/2009	3781103 04/27/2010
13.	Gracenote Media Services, LLC	CHANNEL GUIDE	74538833 06/17/1994	1943605 12/26/1995
14.	Gracenote Media Services, LLC	TV DATA	73469715 03/12/1984	1387817 03/25/1986
15.	Gracenote Media Services, LLC	US EXPRESS	75339316 08/12/1997	2208560 12/08/1998
16.	Gracenote Media Services, LLC	RESEARCHTV	75348848 08/28/1997	2242218 04/27/1999
17.	Gracenote Media Services, LLC	EZ TV	75351537 09/04/1997	2223868 02/16/1999
18.	Gracenote Media Services, LLC	ON	77192303 03/29/2007	3951098 04/26/2011