



Licensing Opportunity

Licensing to: Cloud to Cable Software: US
Patents: 10123074 , 16/152,606
(Allowed)., European Patent: EP3238457

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US010123074B2

(12) **United States Patent**
Hernandez-Mondragon

(10) **Patent No.:** US 10,123,074 B2
(45) **Date of Patent:** Nov. 6, 2018

(54) **METHOD, SYSTEM, AND APPARATUS FOR MULTIMEDIA CONTENT DELIVERY TO CABLE TV AND SATELLITE OPERATORS**

(58) **Field of Classification Search**
CPC H04N 21/440218; H04N 21/233; H04N 21/234309; H04N 21/2387;

(Continued)

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(56) **References Cited**

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Coral Springs, FL (US)

U.S. PATENT DOCUMENTS

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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7,020,888 B2 3/2006 Reynolds et al.
(Continued)

(21) Appl. No.: **15/538,911**

OTHER PUBLICATIONS

(22) PCT Filed: **Dec. 22, 2015**

Justin Pot: "Save Videos From Any Site—Even Netflix—With Applian's Replay Capture Suite", Jun. 3, 2014 (Jun. 3, 2014), XP055472253, Retrieved from the Internet: URL:https://www.makeuseof.com/tag/savevideos-from-any-site-even-netflix-with-applians-replay-capture-suite/ [retrieved on May 3, 2018].

(86) PCT No.: **PCT/US2015/067464**

(Continued)

§ 371 (c)(1),
(2) Date: **Jun. 22, 2017**

(87) PCT Pub. No.: **WO2016/106360**

Primary Examiner — Hunter B Lonsberry

PCT Pub. Date: **Jun. 30, 2016**

(74) *Attorney, Agent, or Firm* — Fox Rothschild LLP

(65) **Prior Publication Data**

(57) **ABSTRACT**

US 2017/0374417 A1 Dec. 28, 2017

Systems, methods, and computer-readable media for delivering multimedia content from the cloud to cable operators are disclosed. A device located at the cable headend or implemented in the cloud can receive a request for at least one media stream for playback on a broadcast media channel. Content corresponding to a plurality of multimedia files in the media stream can be obtained from the internet or a cloud based service. The content can be used to generate the multimedia files in a format that is compatible with the cable operator. The multimedia files can be used to assemble the at least one media stream which can be provided to the cable operator for broadcast on the broadcast media channel.

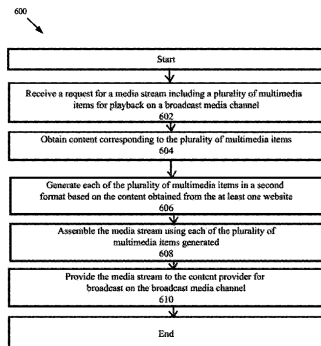
Related U.S. Application Data

(60) Provisional application No. 62/095,504, filed on Dec. 22, 2014.

(51) **Int. Cl.**
H04N 21/4402 (2011.01)
H04N 21/2343 (2011.01)
(Continued)

(52) **U.S. Cl.**
CPC ... **H04N 21/440218** (2013.01); **H04N 21/233** (2013.01); **H04N 21/2387** (2013.01);
(Continued)

21 Claims, 12 Drawing Sheets



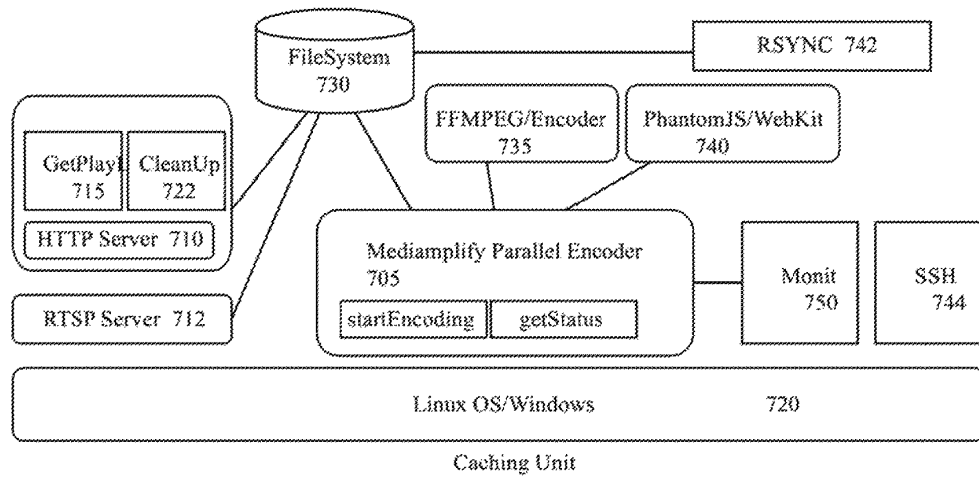
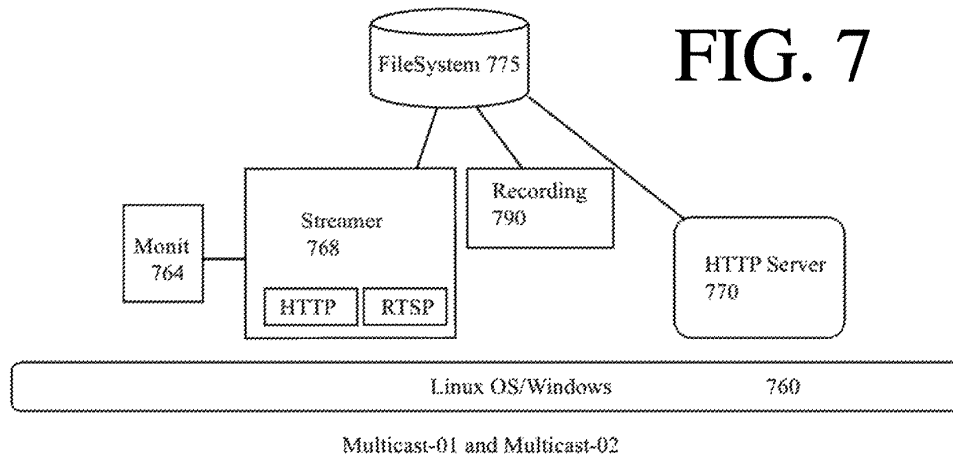


FIG. 7



Cloud to Cable
 provides a system for
 multimedia
 broadcasting in the
 cloud – web elements
 with video & audio



Multicasting for IPTV and CABSAT Systems integrated with web-base interfaces and multimedia elements

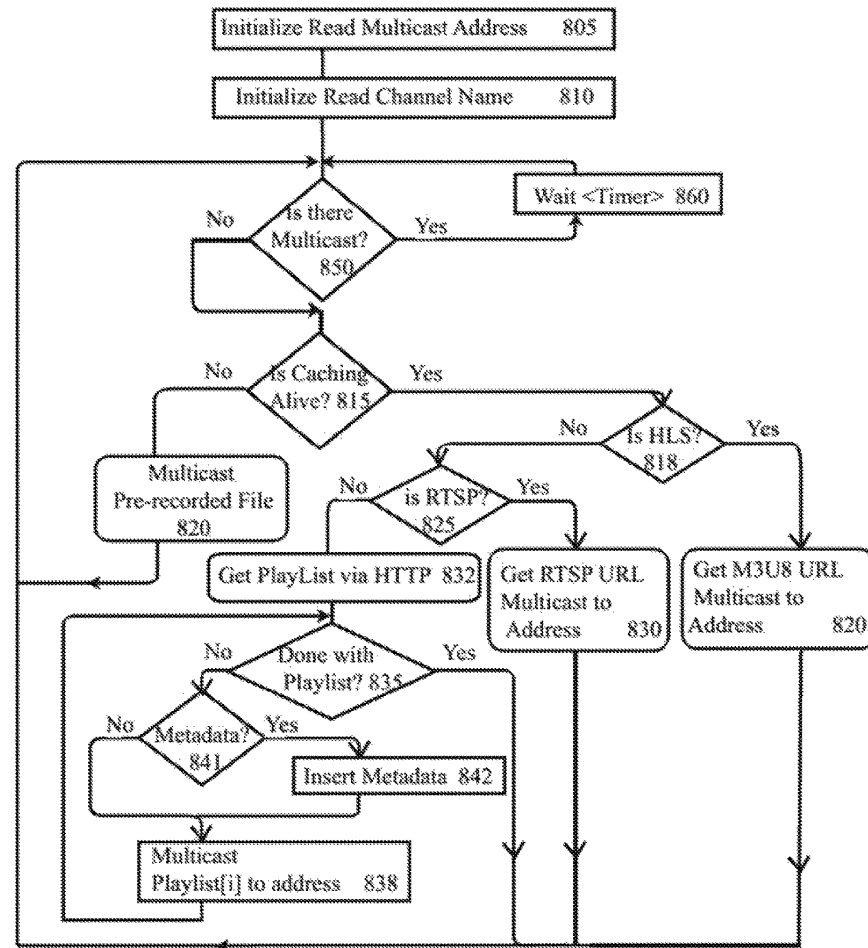


FIG. 8

Analysis and Inventions on 10,123,074 Patent

- **Linear and VOD Streaming of Music, Music + Video, or Video/TV to Cable TV Operators**
 - Rendering of HTML-based webpages from temporal screen captures and creating video streams with audio ready for broadcasting to MPEG Systems (aka Cable TV, DTH) for Linear or VOD Broadcasting
 - Creating all screen captures and storing them in MPEG Format for 2-way interaction (VOD)
 - Deployment and distribution using virtual machines or instances
 - CDN integrated for Web, Mobile, and Cable TV broadcasting
 - Fault-tolerance and detection
 - Multiple Streaming protocols supported
- **MPEG 2-way broadcasting, MPEG multicasting, HTTP Live Streaming**



Additional Intellectual Property – Software & Implementation

- Software for Cloud to Cable TV Appliance
 - Tested in Head ends in LATAM and US
- APIs and software for system and implementation
- Technical Assistance and Engineering Support

A screenshot of a software interface, likely a video management system (VMS) or a similar tool. The interface is divided into several sections. On the left, there is a tree view showing a hierarchy of programs and tables. The main area displays a table of programs with columns for Service Name, Program, Recorder, EBF, and CCC. Below this, there are sections for Grooming Definitions and Program Intervals, which include tables for defining grooming rules and intervals. The bottom section shows Descriptors with columns for Type, Description, Tag (hex), Length, Hex Value, and ASCII Value.

Service Name	Program	Recorder	EBF	CCC
1/1_41 DLA DMX DANCE	41	No Recorder		
1/1_42 DLA DMX RHYTHM AND BLUES	42	No Recorder		
1/1_43 DLA DMX HOT HOLLYWOOD HITS	43	No Recorder		
1/1_44 DLA DMX LATIN JAZZ	44	No Recorder		
1/1_45 DLA DMX LEBEAT OLDIES	45	No Recorder		
1/1_46 DLA DMX MUSICA POPULAR BRA.	46	No Recorder		
1/1_47 DLA DMX VERDE AMARELO	47	No Recorder		
1/1_48 DLA DMX ENVIRONMENTAL	48	No Recorder		
1/1_49 DLA DMX NEW AGE	49	No Recorder		
PastefPDe	66636			

ID	Type	Description	Level	Status	Use Trigger	Trigger(s)	Duration	EBF Filter	CLE Inversion	Pass Streams
902	Program	1/1_1	0	Valid						

Type	Line	Mux	Program	Input PID	Network Rule	NV EBF Priority	DR Rule	DR EBF Priority	Output PID
Dolby Digital Audio	1/1 [10.10.1.14]	DLA_DMX_Verde Amarelo [239.10.10.1...	1/1_1	17	Keep		Splice		1960
Data: 192 [Async]	1/1 [10.10.1.14]	DLA_DMX_Verde Amarelo [239.10.10.1...	1/1_1	30	Keep		Splice/Drop		1967



Customers

- 700k subscribers with CABLE COLOR in Honduras, Nicaragua and Guatemala

www.cablecolor.hn

CABLE COLOR

TE TRAE NUEVOS CANALES EN HD

discovery kids HD | ID INVESTIGATION DISCOVERY HD | h&h Discovery HD | ANIMAL PLANET HD

Discovery HD | Discovery HD WORLD | ESPN2 HD

Canal 702 ESPN 2 HD
Canal 729 Discovery Kids HD
Canal 773 Investigation Discovery HD
Canal 774 Discovery World HD
Canal 775 H&H HD
Canal 776 Discovery Channel HD
Canal 777 Animal Planet HD

Nuestros canales cuentan con:

DOLBY DIGITAL | SAP

f YouTube in Instagram

CONTRÁTALO LLAMANDO AL **2540-1234 ó 2262-0000**

US Patent
10,123,074
Cites Patents
in dispute
Stingray v.
Music Choice

Patent Citations (14)

Publication number	Priority date	Publication date	Assignee	Title
US20020138852A1	2000-11-27	2002-09-26	Steven Reynolds	System and method for providing an omnimedia package
US20030115612A1	1998-04-01	2003-06-19	Morecom, Inc.	Digital TV system with synchronized World Wide Web content
US7320025B1	2002-03-18	2008-01-15	Music Choice	Systems and methods for providing a broadcast entertainment service and an on-demand entertainment service
US20080040354A1	2006-08-10	2008-02-14	Qualcomm Incorporated	System and method for media content delivery
US20080098426A1 *	2006-10-23	2008-04-24	Candelore Brant L	Decoding multiple remote control code sets
US20090178003A1	2001-06-20	2009-07-09	Recent Memory Incorporated	Method for internet distribution of music and other streaming content
US20100192178A1 *	2009-01-26	2010-07-29	Candelore Brant L	Capture of stylized TV table data via OCR
US20120204217A1	2010-10-14	2012-08-09	Activevideo Networks, Inc.	Streaming Digital Video between Video Devices Using a Cable Television System
US20140068690A1	2012-08-31	2014-03-06	General Instrument Corporation	Broadcast content to http client conversion
US20140098815A1 *	2012-10-10	2014-04-10	Telefonaktiebolaget L M Ericsson (Publ)	Ip multicast service leave process for mpls-based virtual private cloud networking
US20140143437A1	2012-11-16	2014-05-22	Adobe Systems Incorporated	Converting Live Streaming Content to Video-on-Demand Streaming Content
US8769602B1	2001-08-28	2014-07-01	Music Choice	System and method for providing an interactive, visual complement to an audio program
US20140351871A1	2013-05-22	2014-11-27	Microsoft Corporation	Live media processing and streaming service
US20150319004A1 *	2007-08-31	2015-11-05	At&T Intellectual Property I, L.P.	System and method of monitoring video data packet delivery

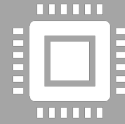
- Visual Component Patent
- VOD Patents

Music Choice filed its original Complaint against the Corporation on June 6, 2016, asserting infringement of four U.S. patents, namely, U.S. Patent Nos. [8,769,602](#) (the '602 Patent), [9,357,245](#) (the '245 Patent), [7,320,025](#) (the '025 Patent) and 9,351,045 (the '045 Patent).

Licensing of an entire media streaming portfolio



US Patent: 10,123,074



US Patent application: 16/152,606



European Patent Application : EP3238457
(A1)



Technology: Cloud to
Cable TV Software

Used by DMX Media
during the acquisition
with Stingray Digital

Thank you
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