



# 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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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.

6,886,178 B1 4/2005 Mao et al.  
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].  
(Continued)

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

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

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

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

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

(65) **Prior Publication Data**

US 2017/0374417 A1 Dec. 28, 2017

**Related U.S. Application Data**

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

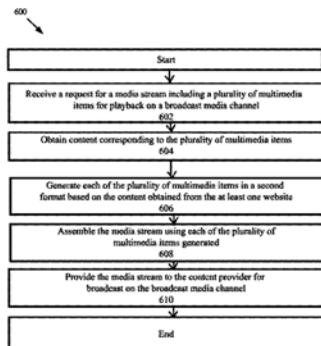
(51) **Int. Cl.**  
**H04N 21/4402** (2011.01)  
**H04N 21/2343** (2011.01)  
(Continued)

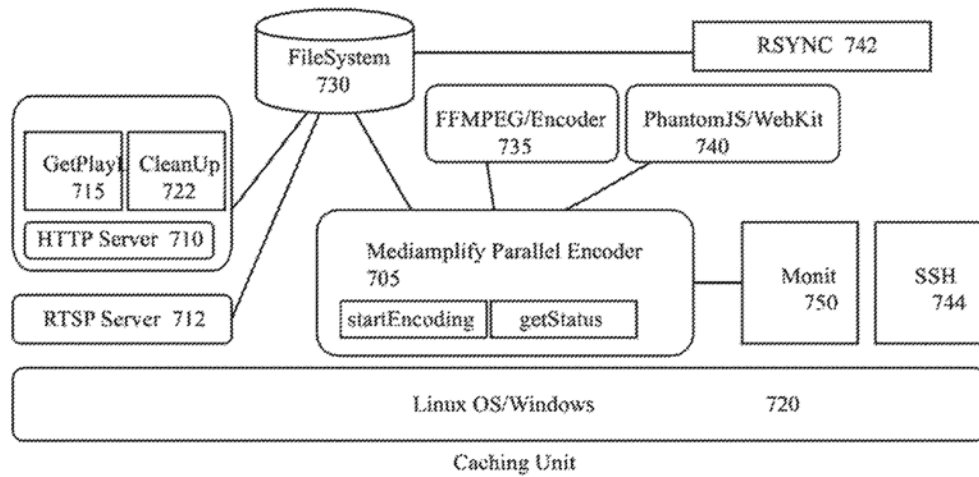
(57) **ABSTRACT**

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.

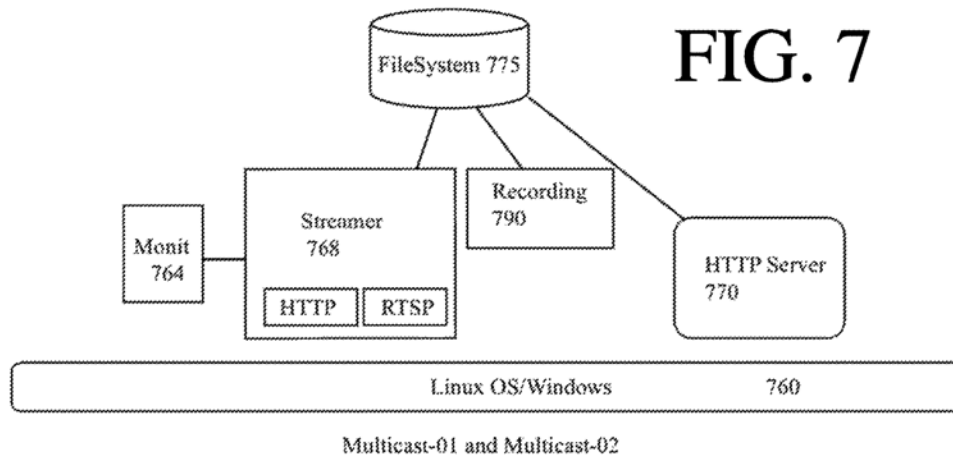
(52) **U.S. Cl.**  
CPC ... **H04N 21/440218** (2013.01); **H04N 21/233** (2013.01); **H04N 21/2387** (2013.01);  
(Continued)

**21 Claims, 12 Drawing Sheets**

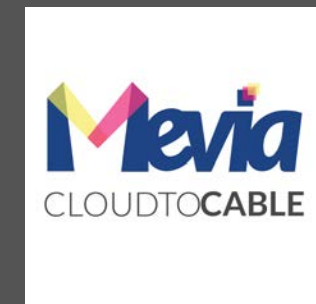




**FIG. 7**



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

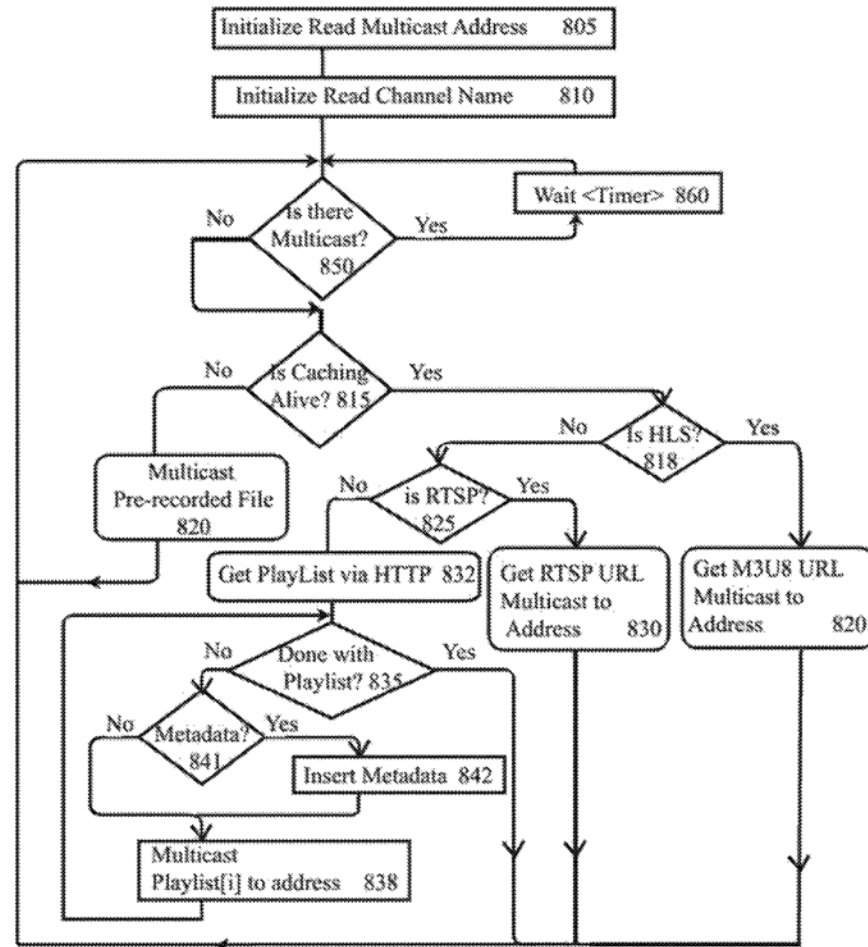


FIG. 8

# 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



The screenshot displays a software interface for managing TV programs and grooming. The main window is titled "Grooming" and shows a list of programs with columns for "Primary", "Backup", "CPI", "Service Name", "Program", "Recorder", "ESF", and "CCC". The "Properties" panel on the right shows details for a selected program, including "Date/Time", "Start", "End", "Recording", "Max Video Bitrate (Mbps)", "Max Video Bitrate (Kbps)", "Priority", "Backup", "Error Period", "Underflow Streams", "Switch on Underflow", "Auto Switch Back", and "Error Free Period".

ID	Type	Program	Level	Status	Use Trigger	Trigger(s)	Duration	ESF Filter	CLE Inversion	Pass Streams
962	Program	TR_1	0	Valid						

Type	Line	Mux	Program	Input PID	Network Rule	NV ESF Priority	CPI Rule	CPI ESF Priority	Output PID
Dolby Digital Audio	1/1 [10.10.1.14]	DLA_DMC_Verde Anareto [239.10.10.119 2022]	1/1_1	17	Keep		Splice		1969
Dolby Async	1/1 [10.10.1.14]	DLA_DMC_Verde Anareto [239.10.10.119 2022]	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 kds<sup>HD</sup> | ID<sup>HD</sup> INVESTIGATION DISCOVERY | h&h<sup>HD</sup> | ANIMAL PLANET<sup>HD</sup>

Discovery<sup>HD</sup> | Discovery<sup>HD</sup> WORLD | ESPN2<sup>HD</sup>

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

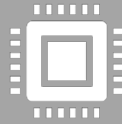
Music Choice filed its original Complaint against the Corporation on June 6, 2016, asserting infringement of four U.S. patents, namely, U.S. Patent Nos. [8,769,602](#) (the '602 Patent), [9,357,245](#) (the '245 Patent), [7,320,025](#) (the '025 Patent) and 9,351,045 (the '045 Patent).



# 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  
Feel free to  
contact US

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