US007966362B2

(12) **United States Patent**
Neumann et al.

(10) **Patent No.:** **US 7,966,362 B2**
(45) **Date of Patent:** **Jun. 21, 2011**

(54) **MANAGEMENT OF PODCASTS**

(75) Inventors: **David Lawrence Neumann**, Portland, OR (US); **Anne Jones**, Emerald Hills, CA (US); **Mike Wiese**, Cupertino, CA (US); **David Heller**, San Jose, CA (US)

(73) Assignee: **Apple Inc.**, Cupertino, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1016 days.

(21) Appl. No.: **11/477,156**

(22) Filed: **Jun. 27, 2006**

(65) **Prior Publication Data**

US 2007/0299978 A1   Dec. 27, 2007

Related U.S. Application Data

(60) Provisional application No. 60/805,449, filed on Jun. 21, 2006.

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.** **709/201**; 709/225

(58) **Field of Classification Search** 709/201, 709/225
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,723,320 A *	2/1988	Horton	....	455/150.1
4,858,116 A *	8/1989	Gillett et al.	....	711/155
4,941,083 A *	7/1990	Gillett et al.	....	710/108
6,289,358 B1 *	9/2001	Mattis et al.	....	707/203
6,292,880 B1 *	9/2001	Mattis et al.	....	711/216
6,385,673 B1 *	5/2002	DeMoney	....	710/60
6,389,467 B1 *	5/2002	Eyal	....	709/223
6,684,254 B1 *	1/2004	Dutta	....	709/229
7,363,277 B1 *	4/2008	Dutta et al.	....	705/57
2001/0047400 A1 *	11/2001	Coates et al.	....	709/219

2002/0010917 A1 *	1/2002	Srikantan et al.	....	725/1
2002/0023164 A1 *	2/2002	Lahr	....	709/231
2002/0056126 A1 *	5/2002	Srikantan et al.	....	725/87
2002/0059425 A1 *	5/2002	Belfiore et al.	....	709/226
2002/0078174 A1 *	6/2002	Sim et al.	....	709/219
2004/0199587 A1 *	10/2004	McKnight	....	709/206
2004/0268451 A1	12/2004	Robbin et al.		
2005/0021478 A1	1/2005	Gautier et al.		
2005/0050345 A1	3/2005	Dowdy et al.		
2005/0278377 A1	12/2005	Mirrashidi et al.		
2006/0015378 A1	1/2006	Mirrashidi et al.		
2006/0015524 A1	1/2006	Gardiner et al.		
2006/0089949 A1	4/2006	Robbin et al.		

(Continued)

OTHER PUBLICATIONS

"Podcast.net—The Podcast Directory", www.podcast/show/45816, downloaded May 13, 2005, p. 1.
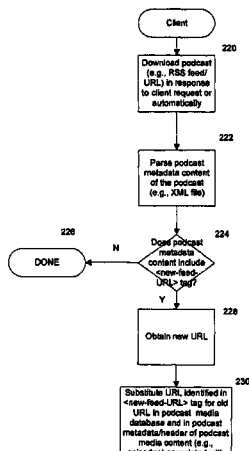
(Continued)

Primary Examiner — Joseph E Avellino
Assistant Examiner — Marshall McLeod

(57) **ABSTRACT**

Improved techniques that facilitate the use of podcasts are disclosed. The improved techniques can pertain to publishing, hosting, accessing, subscribing, managing, organizing, searching, browsing, transferring, and/or playing podcasts. According to one aspect, tags are embedded into syndication feeds (e.g., RSS feeds) that may be made available for distribution by an online media store to facilitate the management of podcasts. Such tags can include a block tag that may be embedded into a syndication feed to indicate whether the feed is to be blocked from being included in the online media store. According to another aspect, management of podcasts may be facilitated by other mechanisms. In accordance with one embodiment, a user may challenge the ownership of a podcast to block or remove a podcast from the online media store. In accordance with another embodiment, images may be stored to allow efficient retrieval of the corresponding episode(s) of a podcast.

24 Claims, 23 Drawing Sheets

U.S. PATENT DOCUMENTS

2006/0173701	A1*	8/2006	Gurvey	705/1
2006/0190616	A1*	8/2006	Mayerhofer et al.	709/231
2006/0265409	A1	11/2006	Neumann et al.	
2006/0265503	A1	11/2006	Jones et al.	
2006/0265637	A1	11/2006	Marriott et al.	
2007/0061393	A1	3/2007	Moore	
2007/0078884	A1	4/2007	Ott et al.	
2007/0088832	A1	4/2007	Tsang et al.	
2007/0112837	A1	5/2007	Houh et al.	
2007/0199076	A1*	8/2007	Rensin et al.	726/27
2007/0255965	A1*	11/2007	McGucken	713/193
2007/0299873	A1	12/2007	Jones	
2007/0299874	A1	12/2007	Neumann	

OTHER PUBLICATIONS

Sample RSS feed entitled "ACC Tournament Podcast", www.simple-easier.com/rss_acc_1.xml, downloaded May 13, 2005, p. 1.

"Podcast.net 13 the Podcast Directory", www.podcast.net, downloaded May 13, 2005, pp. 1-2.

Torrone, "How-To: Podcasting (aka How to get Podcasts and also make your own)", www.engadget.com/entry/5843952395227141, Oct. 5, 2004, pp. 1-25.

"The freshest podcasts in the known universe", http://audio.weblogs.com, downloaded Jun. 10, 2005, pp. 1-4.

Adam Curry, "iPodder—A brief History", www.ipodder.org/history, Dec. 15, 2004, pp. 1-3.

Dave Winer, "What is Podcasting", www.ipodder.org/whatIsPodcasting, Oct. 26, 2004, pp. 1-2.

"RSS 2.0 Specification", RSS at Harvard Law, http://blogs.law.harvard.edu/tech/rss, Jan. 30, 2005, pp. 1-10.

Danny Sullivan, "Search Engine Watch; Making an RSS Feed", http://searchenginewatch.com/sereport/print.php/34721_21752471, Apr. 2, 2003, pp. 1-8.

"RSS basics (Thunderbird)—MozillaZine Knowledge Base", http://kb/mozillazine.org/Thunderbird_:_FAQs_:_RSS_Basics, Apr. 18, 2005, pp. 1-2.

"Podcasting and iTunes: Technical Specification", Oct. 6, 2005, pp. 1-11.

"Apple Takes Podcasting Mainstream", Press Release, Apple Computer, Inc., Jun. 28, 2005, p. 1.

"Podcast Creation Guide", Apple Computer, Inc., Fall 2005, pp. 1-31.

U.S. Appl. No. 11/476,414 entitled "Podcast Organization and Usage at a Computing Device", filed Jun. 27, 2006.

U.S. Appl. No. 11/476,415 entitled "Browsing and Searching of Podcasts", filed Jun. 27, 2006.

Office Action for U.S. Appl. No. 11/476,414, mailed Aug. 18, 2009.

Office Action for U.S. Appl. No. 11/476,415, mailed Aug. 18, 2009.

Final Office Action for U.S. Appl. No. 11/476,415, mailed Mar. 16, 2010.

Advisory Action for U.S. Appl. No. 11/476,415, mailed May 28, 2010.

Office Action for U.S. Appl. No. 11/476,414, mailed Mar. 16, 2010.

Advisory Action for U.S. Appl. No. 11/476,414, mailed May 28, 2010.

Office Action for U.S. Appl. No. 11/476,415, mailed Aug. 31, 2010.

Final Office Action for U.S. Appl. No. 11/476,414, mailed Feb. 4, 2011.

Final Office Action for U.S. Appl. No. 11/476,415, mailed Feb. 15, 2011.

* cited by examiner
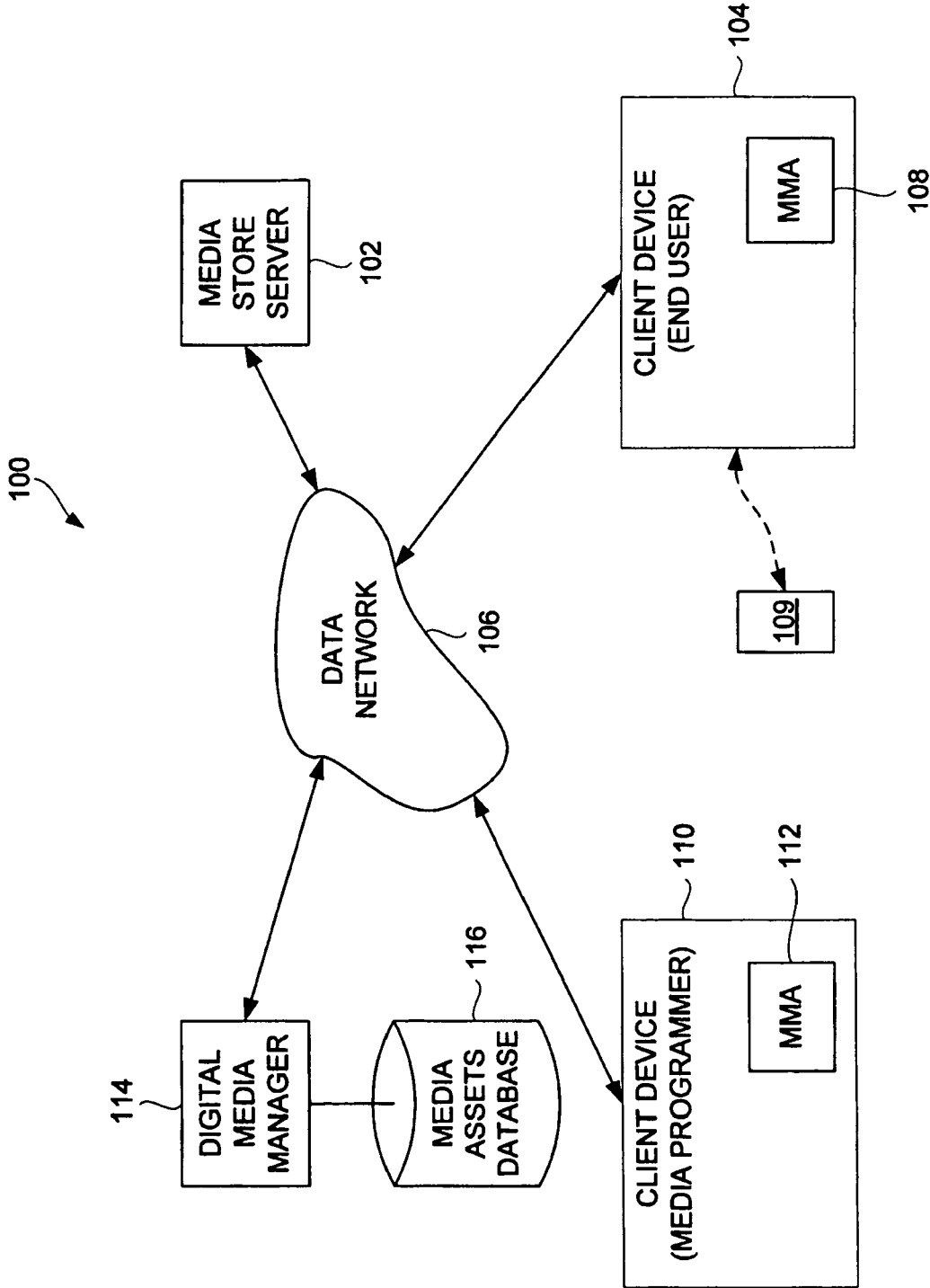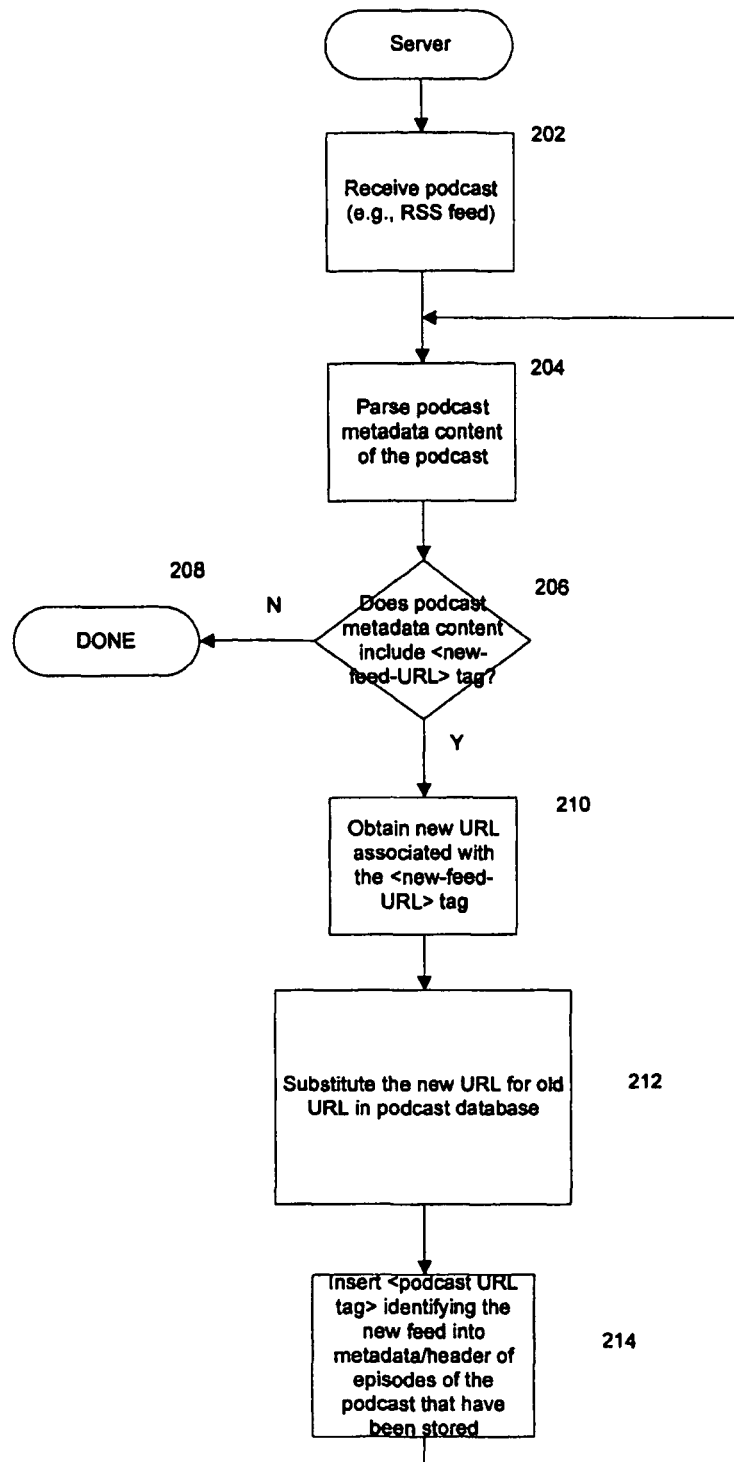
100

MEDIA
STORE
SERVER

102

DATA
NETWORK

106

CLIENT DEVICE
(END USER)

104

MMA

108

109

114

DIGITAL
MEDIA
MANAGER

MEDIA
ASSETS
DATABASE

116

CLIENT DEVICE
(MEDIA PROGRAMMER)

110

MMA

112

FIG. 1

FIG. 2A

Client

220

Download podcast
(e.g., RSS feed/
URL) in response
to client request or
automatically

222

Parse podcast
metadata content
of the podcast
(e.g., XML file)

226

N

DONE

224

Does podcast
metadata
content include
<new-feed-
URL> tag?

Y

228

Obtain new URL

(SEE FIG. 2C)

230

Substitute URL identified in
<new-feed-URL> tag for old
URL in podcast media
database and in podcast
metadata/header of podcast
media content (e.g.,
episodes) associated with
old URL

FIG. 2B

230

Substitute URL

234

Check if user
subscribed to the
podcast (e.g., RSS
feed/URL) that has
been downloaded

236

N

User
subscribed to
the podcast?

Y

238

Tag episodes of
the old feed URL
in media database
as belonging to the
new feed URL

240

Insert <podcast URL
tag> identifying the
new URL into
metadata/header of
episodes of the
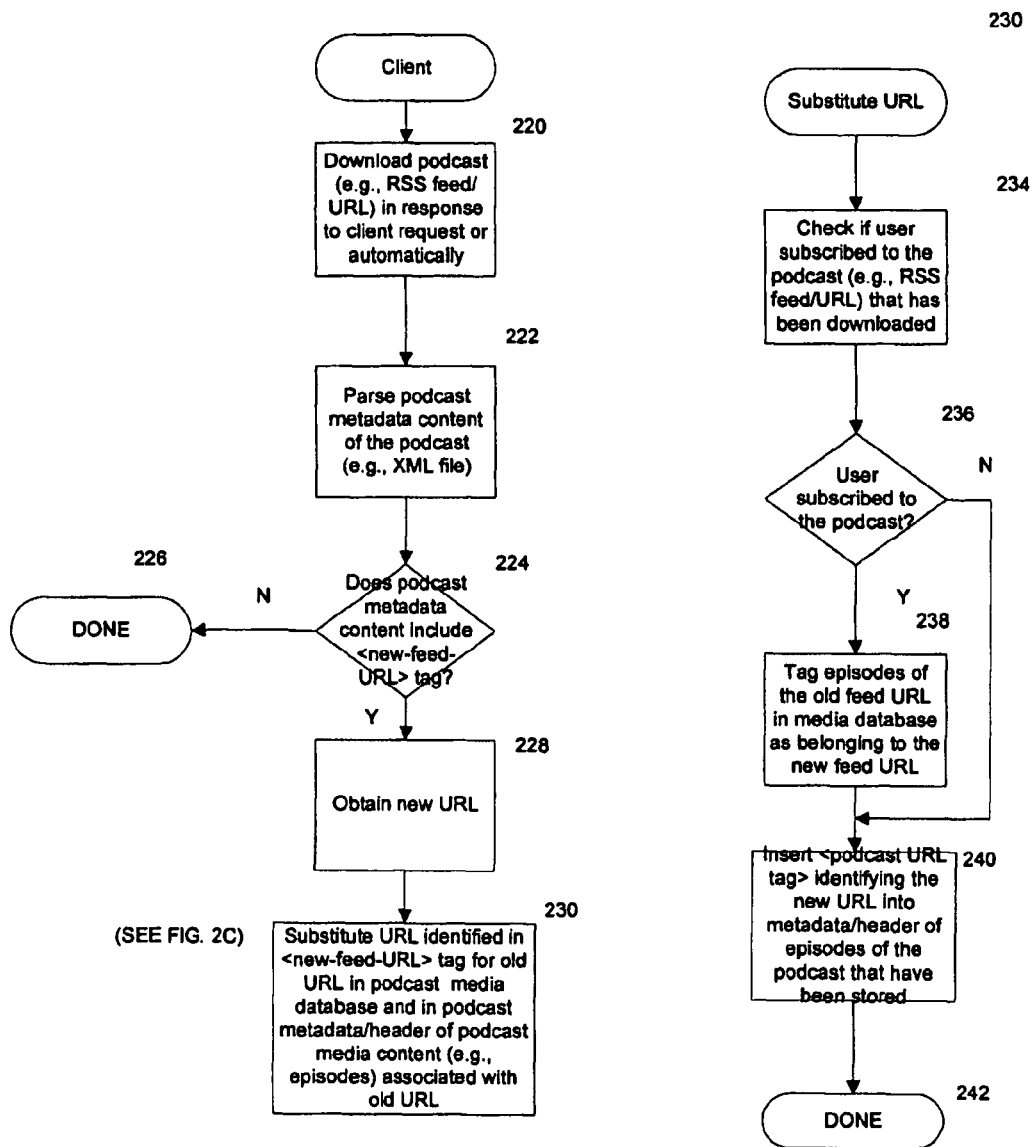podcast that have
been stored

242

DONE

FIG. 2C

DOCKET ALARM

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts

Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research

With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips

Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS
Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS
Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS
Sync your system to PACER to automate legal marketing.

WHAT WILL YOU BUILD? | sales@docketalarm.com | 1-866-77-FASTCASE

fastcase
Smarter legal research.