



US008688028B2

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

(10) **Patent No.:** **US 8,688,028 B2**
(45) **Date of Patent:** **Apr. 1, 2014**

(54) **BROADCAST RESPONSE SYSTEM**

(56) **References Cited**

(71) Applicant: **StratosAudio, Inc.**, Kirkland, WA (US)

U.S. PATENT DOCUMENTS

(72) Inventors: **Kelly M. Christensen**, Mill Creek, WA (US); **Barry D. Thomas**, West Hills, CA (US); **Thomas J. Smyth**, North Hollywood, CA (US)

4,926,255 A 5/1990 Von Kohorn
5,134,719 A 7/1992 Mankovitz
(Continued)

(73) Assignee: **StratosAudio, Inc.**, Kirkland, WA (US)

FOREIGN 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.

CA 2 316 925 7/1999
DE 44 27 046 A1 2/1996
(Continued)

OTHER PUBLICATIONS

(21) Appl. No.: **13/889,176**

Australian App. No. 2007200471, including its prosecution history, and the Office Actions mailed on Oct. 15, 2008 and Jan. 12, 2009.

(22) Filed: **May 7, 2013**

(Continued)

(65) **Prior Publication Data**

US 2013/0309960 A1 Nov. 21, 2013

Related U.S. Application Data

Primary Examiner — Ajibola Akinyemi

(74) *Attorney, Agent, or Firm* — Knobbe Martens Olson & Bear LLP

(63) Continuation of application No. 11/562,300, filed on Nov. 21, 2006, now Pat. No. 8,467,724, which is a continuation of application No. 11/203,556, filed on Aug. 12, 2005, now Pat. No. 7,773,939, which is a continuation of application No. 09/953,335, filed on Sep. 13, 2001, now Pat. No. 6,957,041.

(57) **ABSTRACT**

A broadcast response system provides, e.g., a radio broadcast listener with the ability to obtain media content such as music or speech while listening to the radio. The user can respond to items in the radio broadcast such as advertisements, fund raising drives, or interactive listener polls during the broadcast. Data such as song title and artist, author or publisher and the IP address for the location where the digital version of the content is stored, can be transmitted using, e.g., the RBDS/RDS data stream. A reference number representing song title and artist, author or publisher and the IP address for the location where the digital version of the content is stored can also be employed for ease of implementation. This reference number can reside in a lookup table to be accessed by broadcast response server.

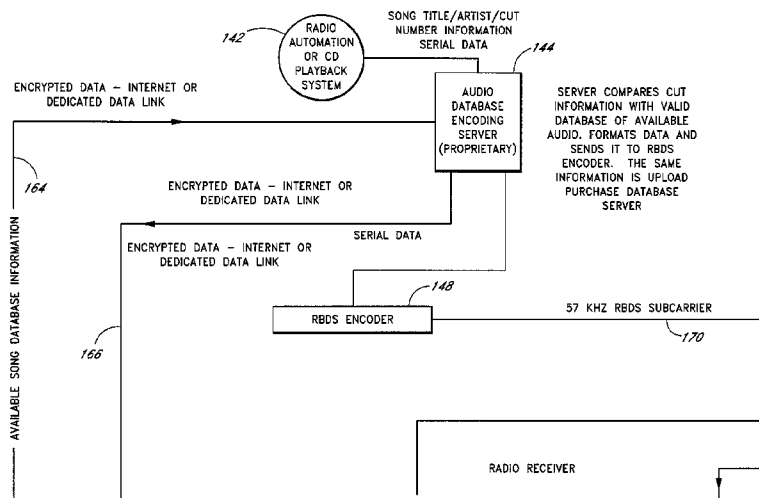
(60) Provisional application No. 60/232,333, filed on Sep. 13, 2000.

(51) **Int. Cl.**
H04H 40/00 (2008.01)

(52) **U.S. Cl.**
USPC **455/3.06; 725/32; 725/34; 725/36; 725/58**

(58) **Field of Classification Search**
USPC 455/3.06
See application file for complete search history.

20 Claims, 6 Drawing Sheets



(56)

References Cited

FOREIGN PATENT DOCUMENTS

U.S. PATENT DOCUMENTS

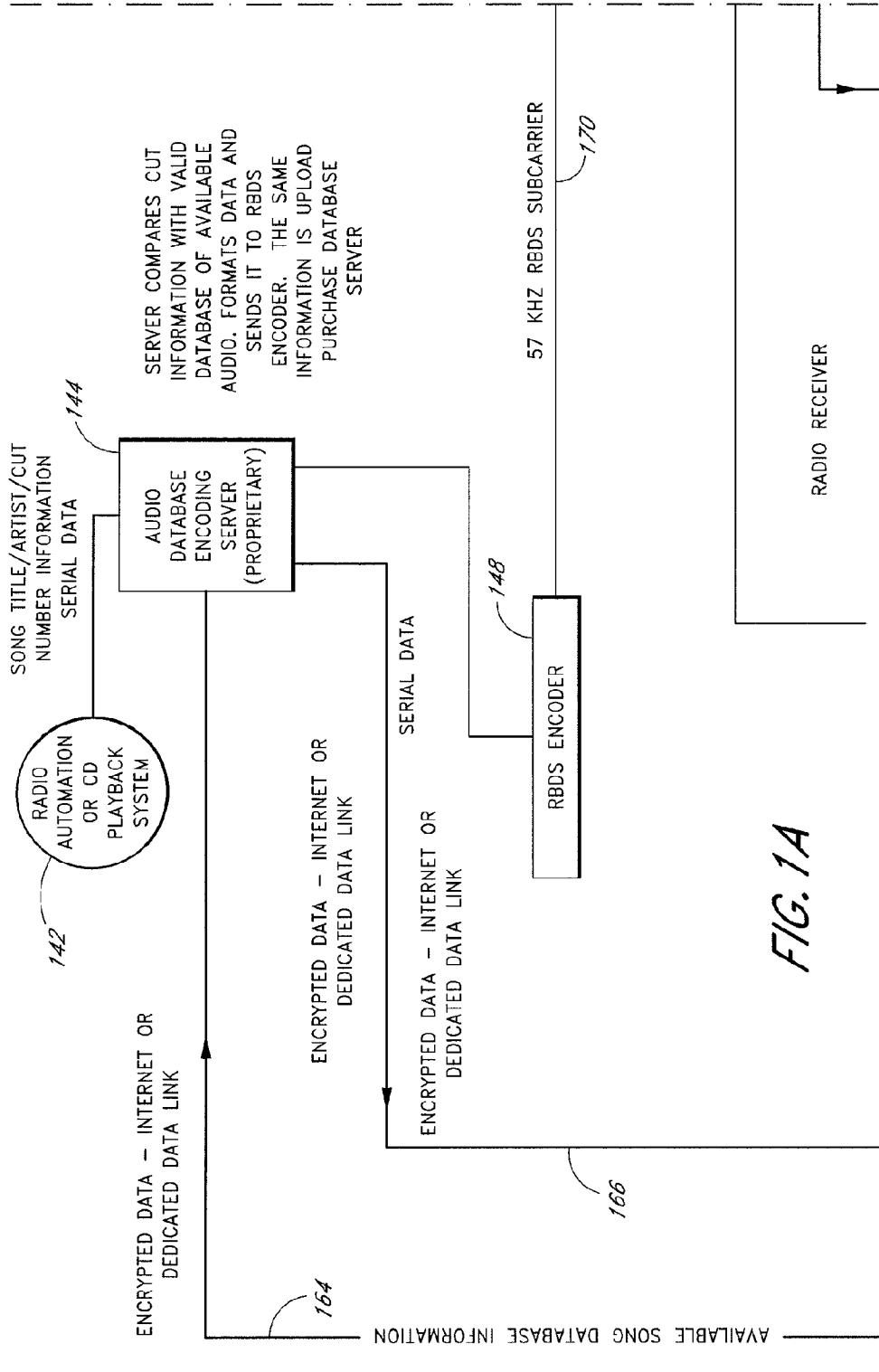
5,303,393 A 4/1994 Noreen et al.
 5,438,355 A 8/1995 Palmer
 5,444,769 A 8/1995 Koen et al.
 5,539,635 A 7/1996 Larson, Jr.
 5,548,828 A 8/1996 Kozaki et al.
 5,557,541 A 9/1996 Schulhof et al.
 5,579,537 A 11/1996 Takahisa
 5,661,787 A 8/1997 Pocock
 5,708,478 A 1/1998 Tognazzini
 5,752,159 A 5/1998 Faust et al.
 5,857,156 A 1/1999 Anderson
 5,872,589 A 2/1999 Morales
 5,903,617 A 5/1999 Kamalski
 5,905,865 A 5/1999 Palmer et al.
 5,907,793 A 5/1999 Reams
 5,991,601 A 11/1999 Anderson
 5,991,737 A 11/1999 Chen
 6,036,086 A 3/2000 Sizer, II et al.
 6,098,106 A 8/2000 Philyaw et al.
 6,202,210 B1 3/2001 Ludfke
 6,286,140 B1 9/2001 Ivanyi
 6,446,262 B1 9/2002 Malaure et al.
 6,463,469 B1 10/2002 Yavitz
 6,473,792 B1 10/2002 Yavitz et al.
 6,507,727 B1 1/2003 Henrick
 6,578,047 B1 6/2003 Deguchi
 6,611,201 B1 8/2003 Bishop et al.
 6,658,232 B1 12/2003 Johnson
 6,708,335 B1 3/2004 Ozer et al.
 6,725,022 B1 4/2004 Clayton et al.
 6,829,486 B2 12/2004 McKenna et al.
 6,928,423 B1 8/2005 Yamanaka
 6,941,154 B1 9/2005 Ritter
 6,957,041 B2 10/2005 Christensen et al.
 6,970,886 B1* 11/2005 Conwell et al. 1/1
 6,990,312 B1 1/2006 Gioscia et al.
 7,110,714 B1 9/2006 Kay et al.
 7,190,971 B1 3/2007 Kawamoto
 7,266,343 B1 9/2007 Yli-juuti et al.
 7,299,194 B1 11/2007 Manganaris et al.
 7,415,430 B2 8/2008 Christensen et al.
 7,647,609 B2 1/2010 Wachtfogel et al.
 7,765,574 B1 7/2010 Maybury et al.
 7,773,939 B2 8/2010 Christensen et al.
 7,788,693 B2* 8/2010 Robbins 725/58
 7,917,130 B1 3/2011 Christensen et al.
 8,166,081 B2 4/2012 Christensen et al.
 8,200,203 B1 6/2012 Christensen et al.
 8,467,724 B2 6/2013 Christensen et al.
 2002/0046407 A1 4/2002 Franco
 2002/0133824 A1 9/2002 Mensch
 2003/0097338 A1 5/2003 Mankovich et al.
 2003/0208756 A1* 11/2003 Macrae et al. 725/34
 2005/0021744 A1 1/2005 Haituka et al.
 2007/0156457 A1 7/2007 Brown
 2009/0104870 A1 4/2009 Christensen et al.
 2009/0104872 A1 4/2009 Christensen et al.
 2009/0177736 A1 7/2009 Christensen et al.
 2009/0183208 A1 7/2009 Christensen et al.
 2009/0192916 A1* 7/2009 Casper 705/26
 2009/0205000 A1 8/2009 Christensen et al.

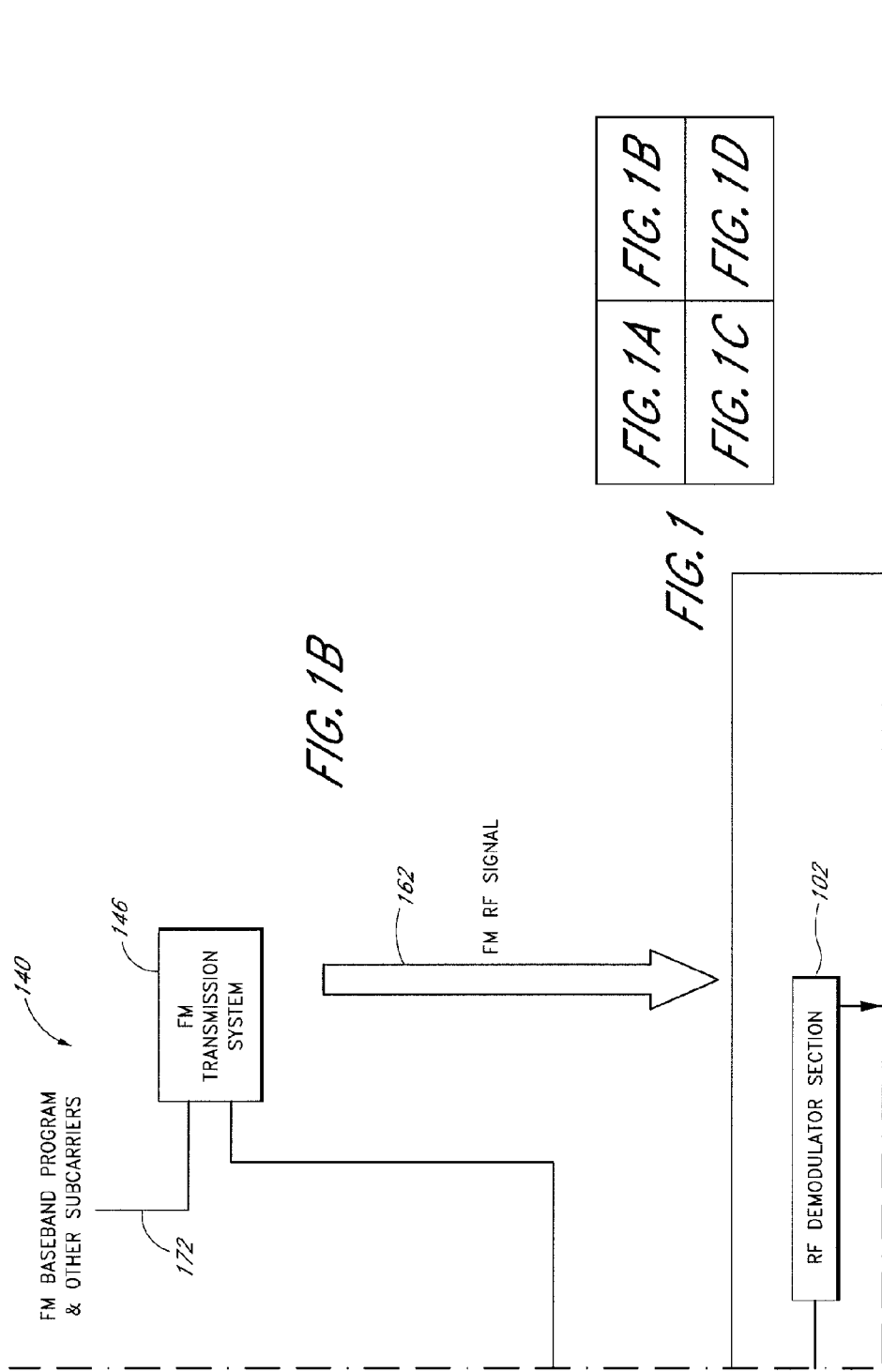
DE 196 27 308 A1 1/1998
 EP 0 713 335 A2 5/1996
 JP 08-139624 5/1996
 JP 10-135855 5/1998
 JP 2000292182 A 10/2000
 KR 10-1996-0033096 9/1996
 KR 10-1998-0078248 11/1998
 WO WO 90/00847 1/1990
 WO WO 92/14222 8/1992
 WO WO 94/02909 2/1994
 WO WO 97/21291 6/1997
 WO WO 97/42724 A1 11/1997
 WO WO 97/45814 12/1997
 WO WO 99/18518 4/1999
 WO WO 99/35771 7/1999
 WO WO 99/35809 7/1999
 WO WO 99/43109 8/1999
 WO WO 00/19662 4/2000
 WO WO 01/01331 1/2001
 WO WO 01/22633 3/2001
 WO WO 01/52541 7/2001
 WO WO 01/57759 8/2001
 WO WO02/23773 2/2002

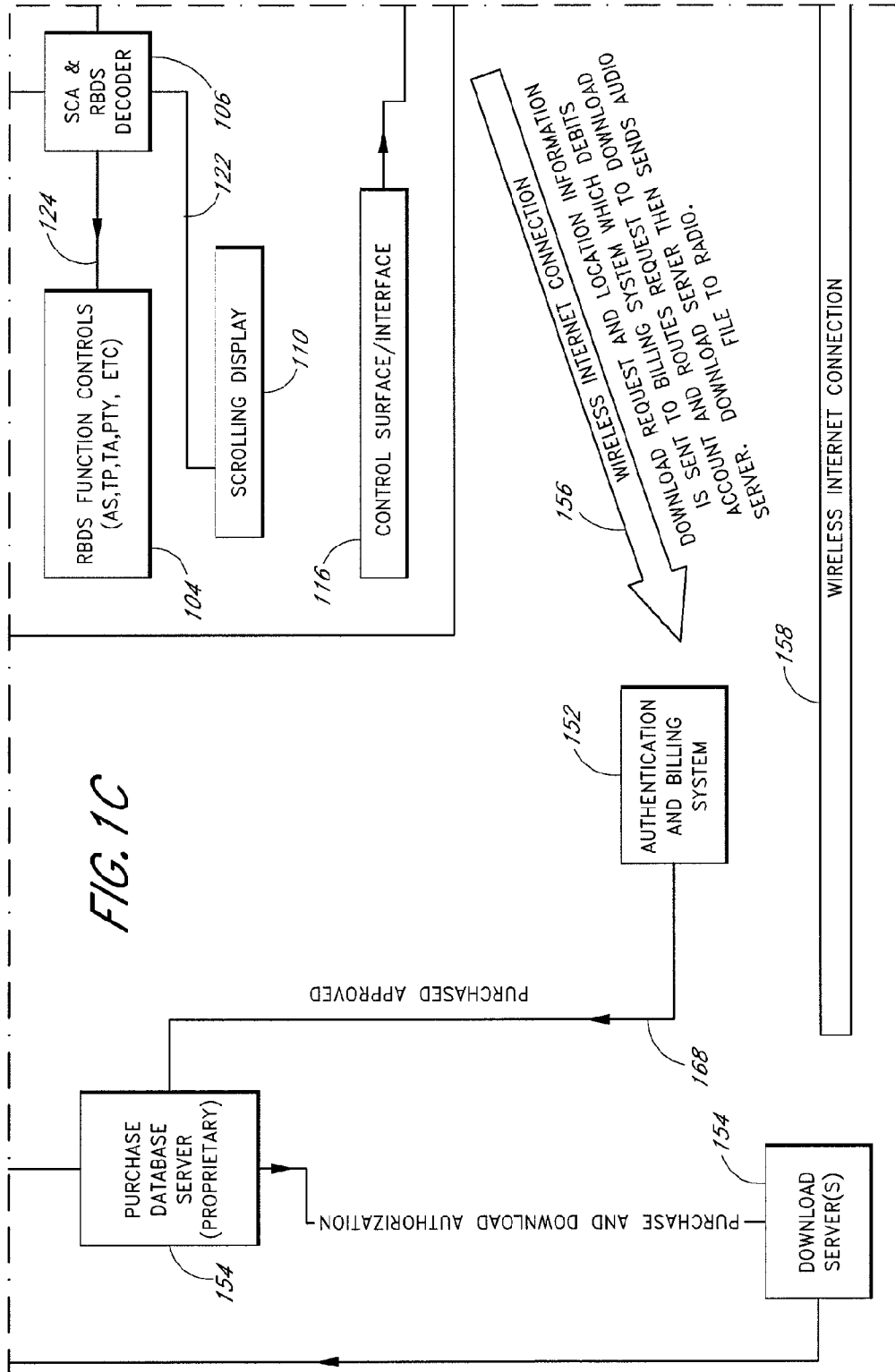
OTHER PUBLICATIONS

Final Office Action in Korean App. No. 10-2008-7031275, mailed on Sep. 29, 2011 (both English and Korean versions).
 Final Office Action in Korean App. No. 10-2008-7031275, mailed on Dec. 30, 2010.
 Office Action in Korean App. No. 10-2011-7010599, mailed on Sep. 8, 2011 (both English and Korean version).
 Final Office Action in Japanese App. No. 2002-527094, mailed on Dec. 21, 2010 (both English and Japanese versions).
 Final Office Action in Japanese App No. 2002-527094, mailed on Sep. 6, 2011 (both English and Japanese Versions).
 Office Action in Korean App. No. 10-2010-7019126, mailed on Nov. 9, 2010 (both English and Korean versions).
 Office Action in Japanese App. No. 2002-527094, mailed on Feb. 24, 2010 (both English and Japanese versions).
 Office Action in Canadian App. No. 2,421,165, mailed on Feb. 1, 2010.
 Office Action in Korean App. No. 10-2008-7031275, mailed on Jan. 28, 2010 (both English and Korean versions).
 Office Action in Korean App. No. 10-2003-7003701, mailed on Feb. 29, 2008 (both English and Korean versions).
 Office Action in Korean App. No. 10-2008-7031275, mailed on May 4, 2009 (both English and Korean versions).
 Office Action in Korean App. No. 10-2008-7001677, mailed on May 23, 2008 (both English and Korean versions).
 Office Action in Korean App. No. 10-2003-7003701, mailed on Sep. 20, 2007.
 "Sirius to Add 'Instant Buy' Button". Mar. 13, 2000, Twice, V 15, n. 7, p. 28.
 "Bookmark Your World", 1999-2000 Xenote, www.xenote.com.
 Jan. 25, 2000, Showcase 2000—Xenote Press Release re Xenote iTag, www.xenote.com/html/press/releases.html.
 International Search Report dated Sep. 13, 2001.
 European Patent Office Examination Report dated Oct. 17, 2005.
 European Patent Office Examination Report dated Feb. 21, 2007.

* cited by examiner







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.