



US006034621A

United States Patent [19] Kaufman

[11] Patent Number: **6,034,621**
[45] Date of Patent: **Mar. 7, 2000**

- [54] **WIRELESS REMOTE SYNCHRONIZATION OF DATA BETWEEN PC AND PDA**
- [75] Inventor: **Steven B. Kaufman**, Bridgewater, N.J.
- [73] Assignee: **Lucent Technologies, Inc.**, Murray Hill, N.J.
- [21] Appl. No.: **08/972,453**
- [22] Filed: **Nov. 18, 1997**
- [51] Int. Cl.⁷ **H04Q 7/00**
- [52] U.S. Cl. **340/825.44; 370/310; 370/340; 455/403**
- [58] Field of Search 340/825.44, 825.06, 340/825.14, 311.1; 370/310, 340; 455/403

5,717,737 2/1998 Doviak et al. 379/58

Primary Examiner—Jacques H. Louis-Jacques
Assistant Examiner—Yonel Beaulieu

[57] ABSTRACT

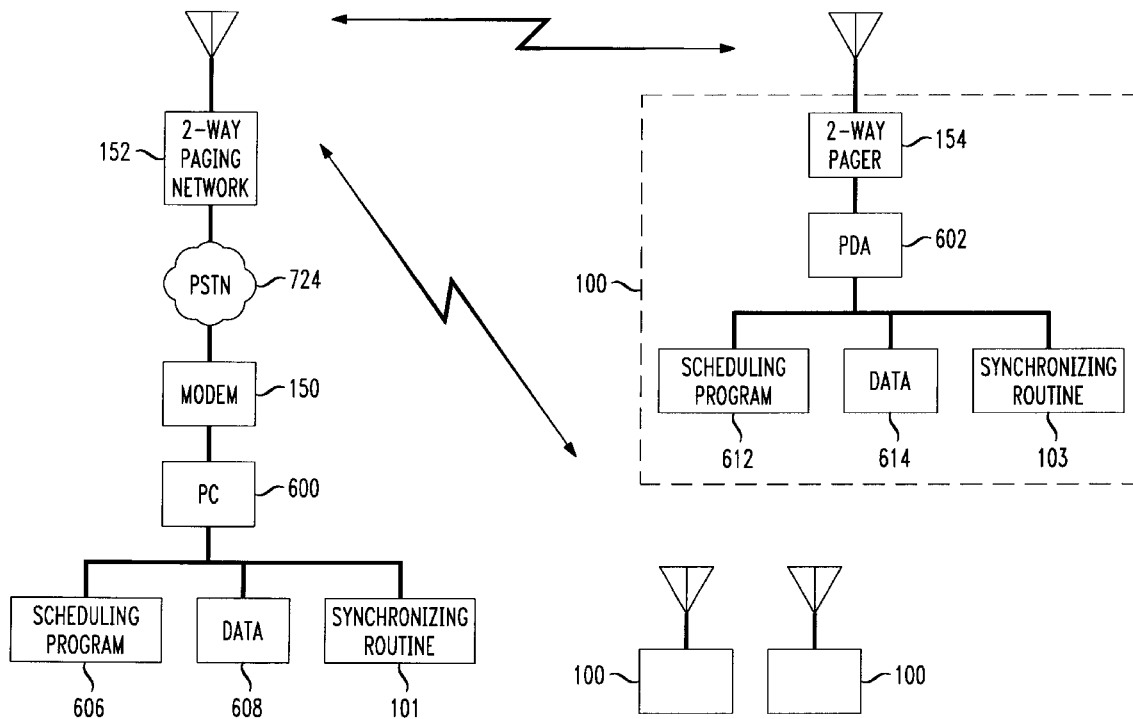
Wireless communication paths between a PC and a Personal Digital Assistant (PDA) are utilized to synchronize data files between the PC and the PDA. Example wireless communication paths include) a one-way paging network, a two-way paging network, a Cellular Digital Packet Data (CDPD) network, and a cordless telephone network. Automated updating of remote files is accomplished by invisibly updating using a paging or CDPD network, e.g., either after each change to the data file, after a series of changes to the data file, after exiting the scheduling application program, at predetermined intervals and/or even on-demand. A simple and efficient wireless way to synchronize data files on separate computers which do not require a fixed, direct connection to each other, such as a direct connection through the PSTN, infrared link, or wired or wireless LAN type connection. The synchronization of data files can be updated on a frequent, inconspicuous and convenient basis.

[56] References Cited

U.S. PATENT DOCUMENTS

5,043,721	8/1991	May	.....	340/825.44
5,124,698	6/1992	Mustonen	.....	340/825.44
5,257,307	10/1993	Ise	.....	379/57
5,473,316	12/1995	Takaya	.....	340/686
5,533,097	7/1996	Crane et al.	.....	379/58
5,638,450	6/1997	Robson	.....	380/49

44 Claims, 6 Drawing Sheets



Apple Exhibit 1020

FIG. 1

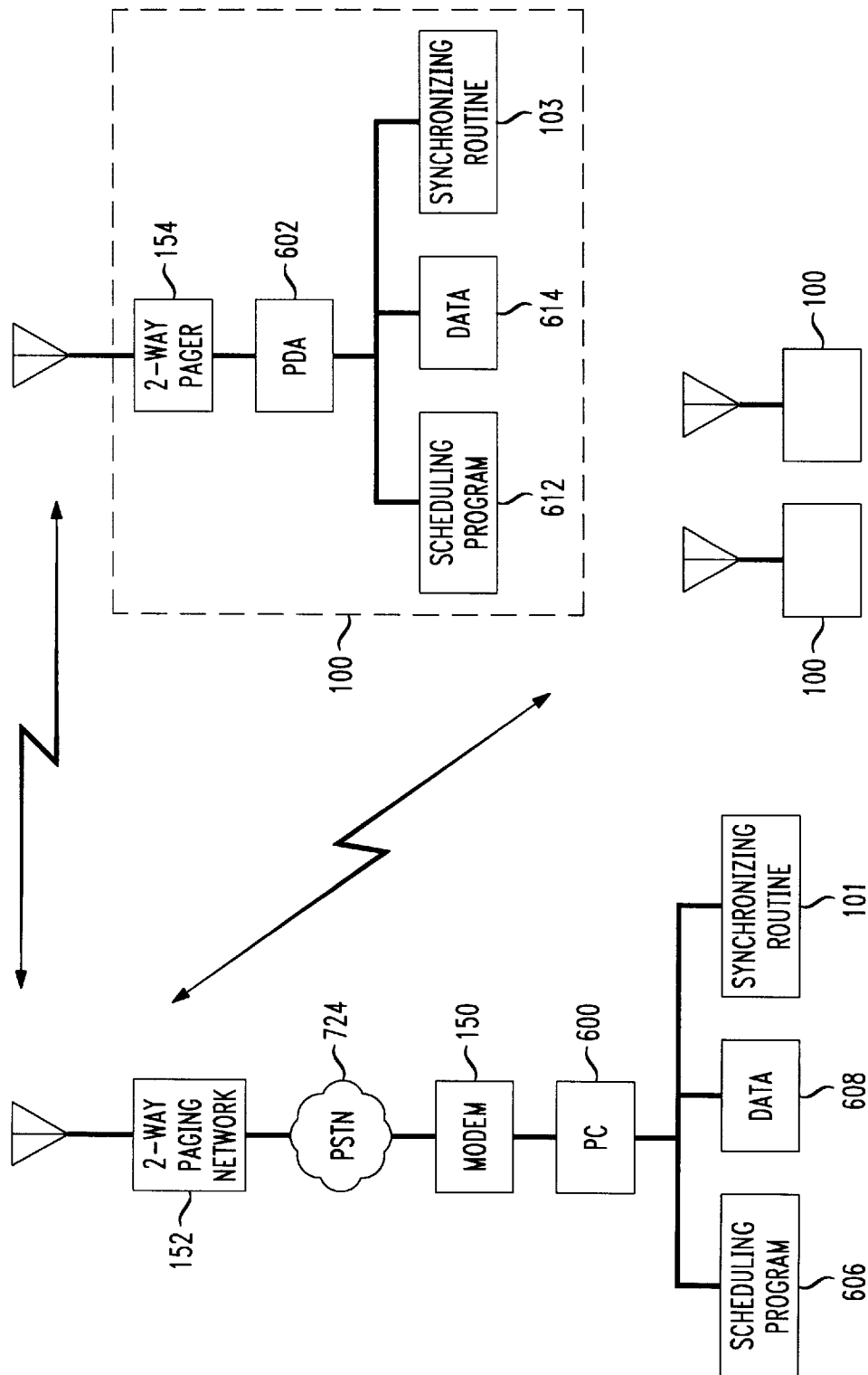


FIG. 2

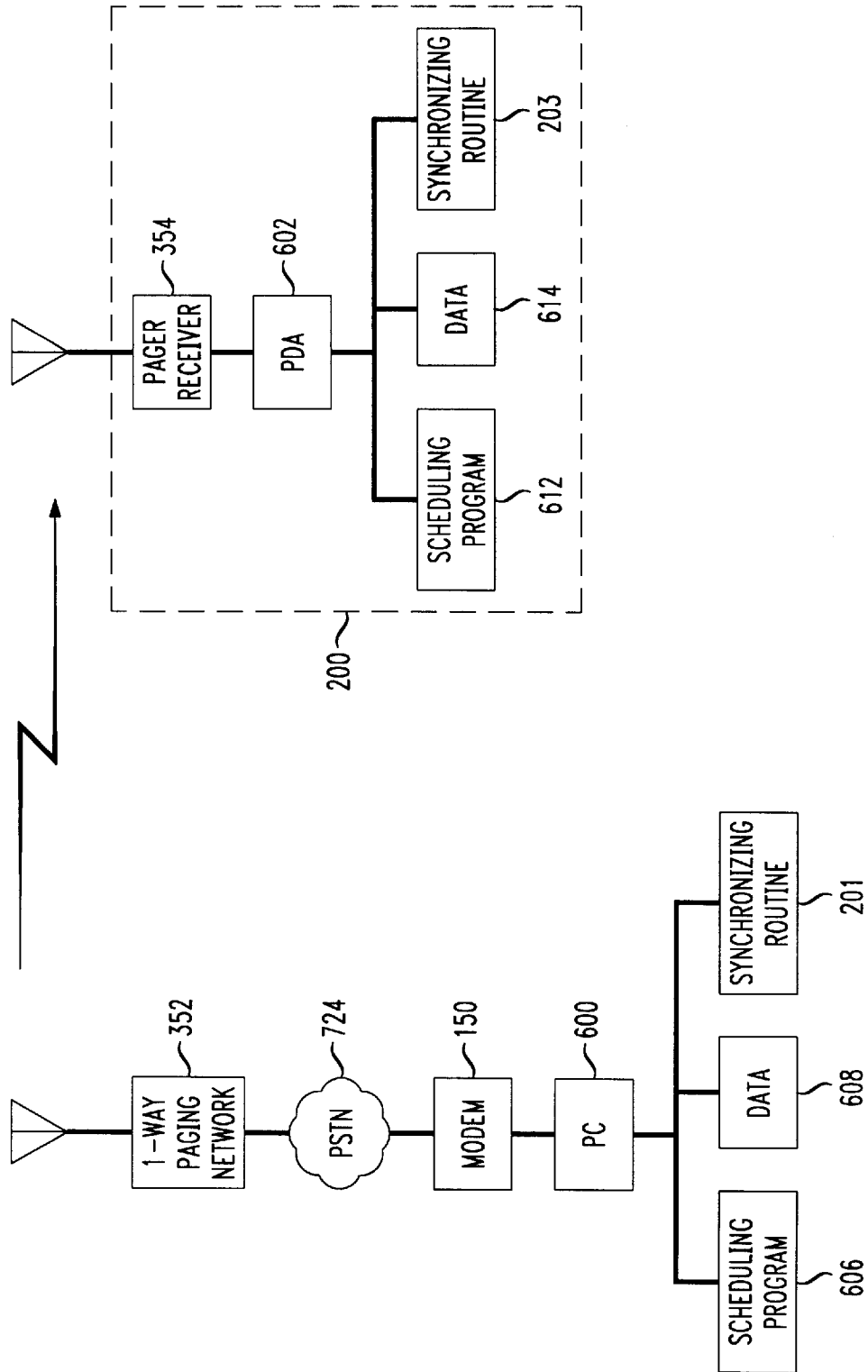


FIG. 3

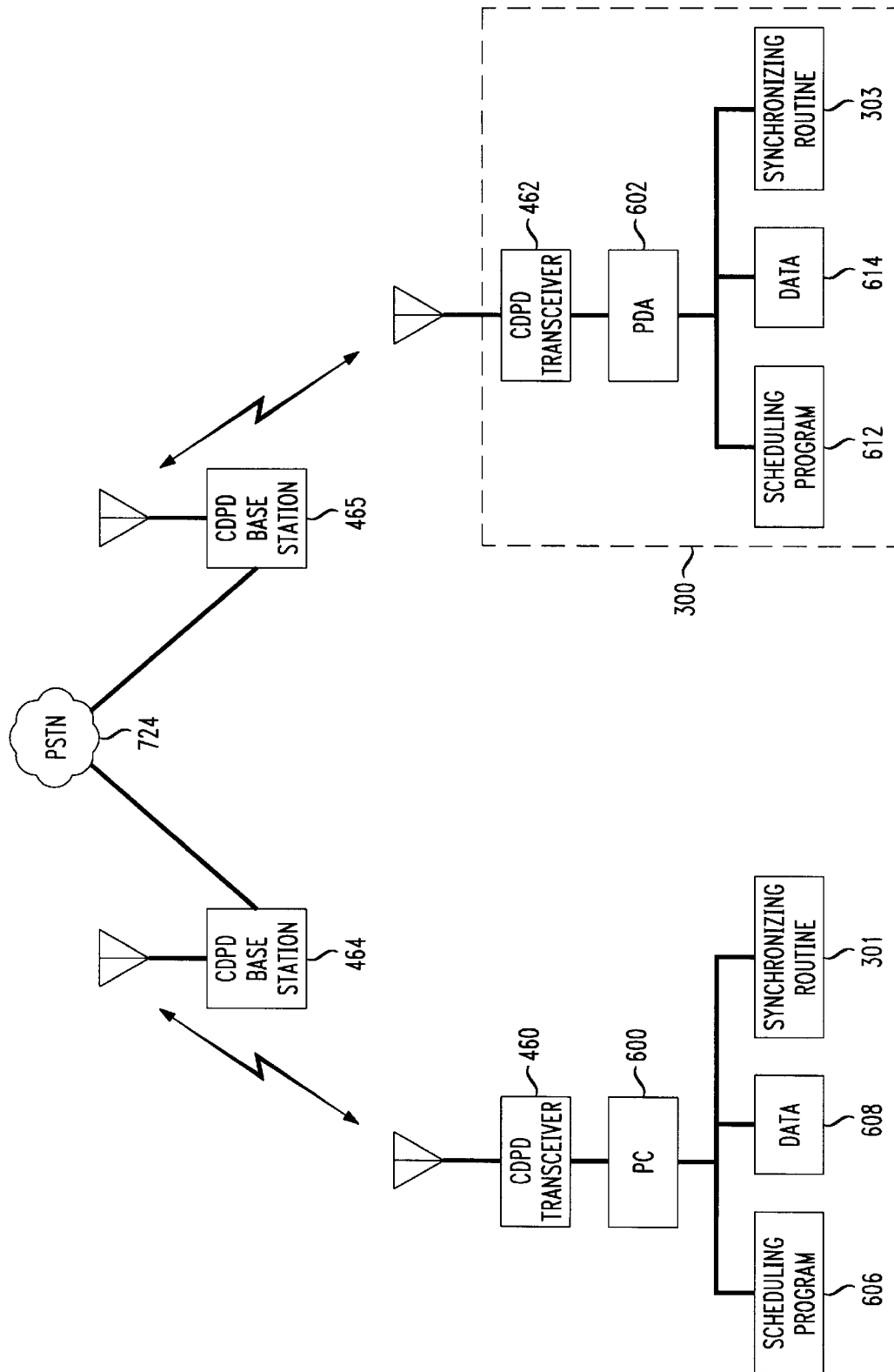
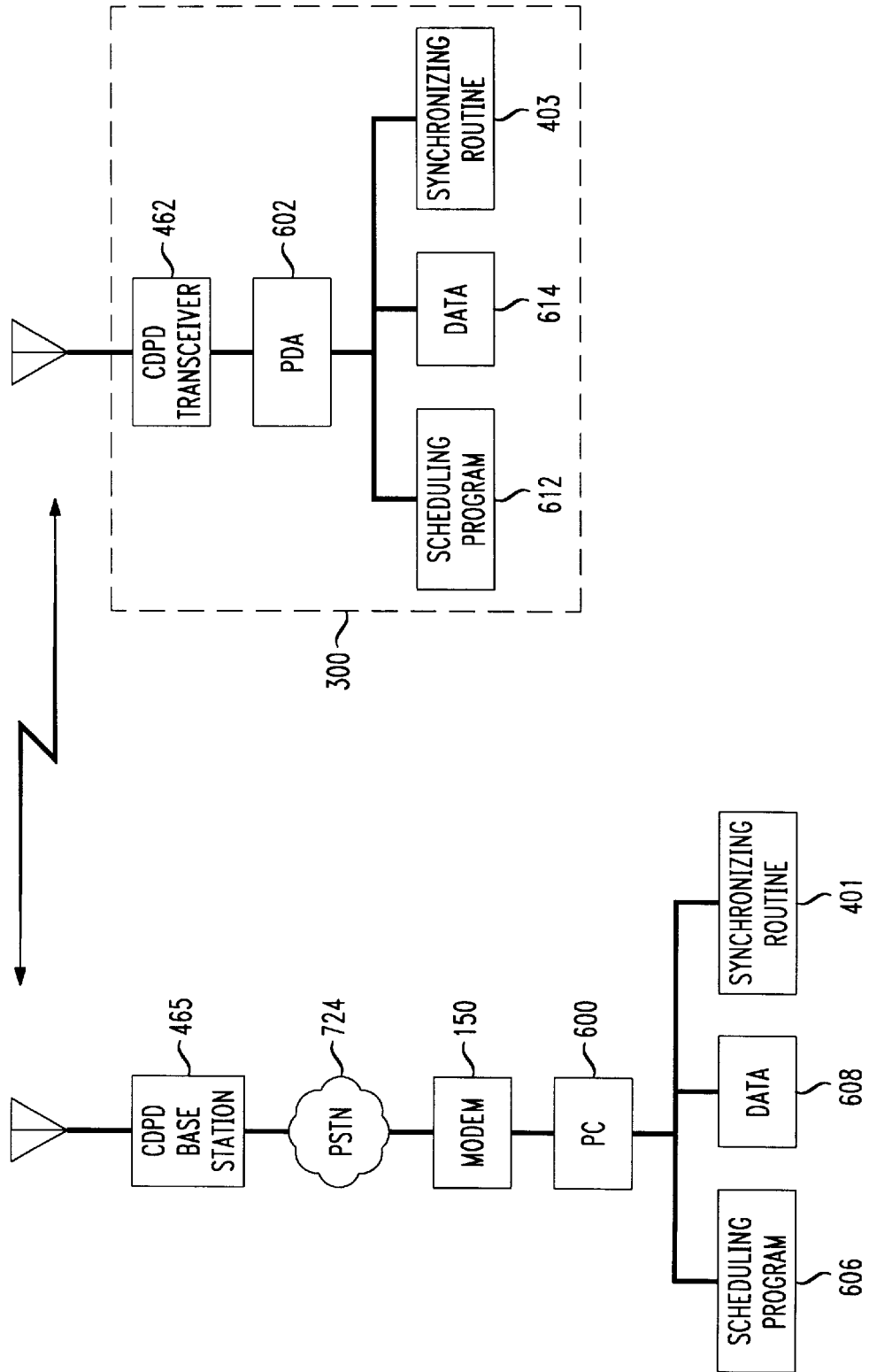


FIG. 4



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.