

US007302423B2

## (12) United States Patent De Bellis

### (10) Patent No.: US 7,302,423 B2

### (45) **Date of Patent:**

\*Nov. 27, 2007

## (54) SEARCH-ON-THE-FLY WITH MERGE FUNCTION

(75) Inventor: **Joseph De Bellis**, Southampton, NY

(73) Assignee: **Pedestrain Concepts LLC**, Dover, DE

(US)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 1028 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 09/935,565

(22) Filed: Aug. 24, 2001

(65) Prior Publication Data

US 2002/0046209 A1 Apr. 18, 2002

### Related U.S. Application Data

- (63) Continuation-in-part of application No. 09/513,340, filed on Feb. 25, 2000.
- (60) Provisional application No. 60/227,305, filed on Aug. 24, 2000.
- (51) Int. Cl. G06F 17/30 (2006.01)
- (52) **U.S. Cl.** ...... 707/3; 707/104.1; 345/663

### (56) References Cited

### U.S. PATENT DOCUMENTS

4,486,857	Α	*	12/1984	Heckel	715/508
4,922,486	Α		5/1990	Lidinsky et al	370/427
5,257,185	Α		10/1993	Farley et al	707/100
5,450,581	Α		9/1995	Bergen et al	707/9
5,519,866	Α		5/1996	Lawrence et al	717/162
5,553,285	Α		9/1996	Krakauer et al	707/200
5,701,453	Α	*	12/1997	Maloney et al	707/2

5,848,292	A	12/1998	Nathan 710/2
5,848,406	A *	12/1998	Mani et al 707/2
5,878,423	A	3/1999	Anderson et al 707/100
5,893,107	A	4/1999	Chan et al 707/103
5,895,476	A	4/1999	Orr et al 715/517
5,951,643	A	9/1999	Shelton et al 709/227
5,970,490	A	10/1999	Morgenstern 707/10
5,974,407	A	10/1999	Sacks 707/2
5,978,790	A	11/1999	Buneman et al 707/2
5,991,791	A	11/1999	Siefert 718/100
6,006,225	A	12/1999	Bowman et al 707/5
6,061,797	A	5/2000	Jade et al 713/201
6,098,172	A	8/2000	Coss et al 713/201
6,119,165	A	9/2000	Li et al 709/229
6,138,162	A	10/2000	Pistriotto et al 709/229
6,169,986	B1	1/2001	Bowman et al 707/5
6,170,012	B1	1/2001	Coss et al 709/229
6,182,083	B1	1/2001	Scheifler et al 707/103
6,272,332	B1*	8/2001	Matsumoto et al 455/412.1
6,279,041	B1*	8/2001	Baber et al 709/232
6,321,228	B1*	11/2001	Crandall et al 707/10
6,593,949	B1*	7/2003	Chew et al 715/841

### \* cited by examiner

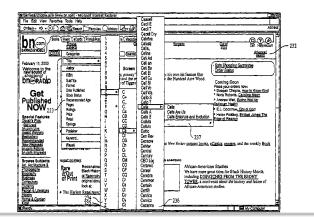
Primary Examiner—Leslie Wong

(74) Attorney, Agent, or Firm-Andrew Kurth LLP

### (57) ABSTRACT

Sort-on-the-Fly/Search-on-the-Fly data retrieval or analysis provides an intuitive mechanisms for accessing databases, allowing a user to access or obtain information about data in the database without having to know anything about the database structure. A user selects a desired term, and the method or apparatus delivers all instances of the desired term, even if a specific file or table does not contain the instance. The database need not have a specific file (in a flat database) or a table (in a relational database) of names. The user may specify other criteria, or constraints to narrow the search results, or for other reasons. The method or apparatus then conducts further analysis or searching using this criteria and produces a second result. Further narrowing or broadening of the process is permitted, with search-on-the-fly returning results based on any new constraints. If the returned information would be too large to be conveniently displayed at a terminal, the process executes a truncation routine so that the returned data is easily displayed.

### 23 Claims, 55 Drawing Sheets





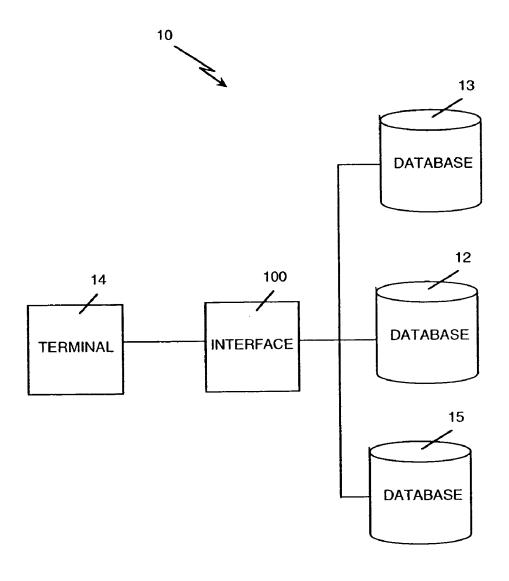
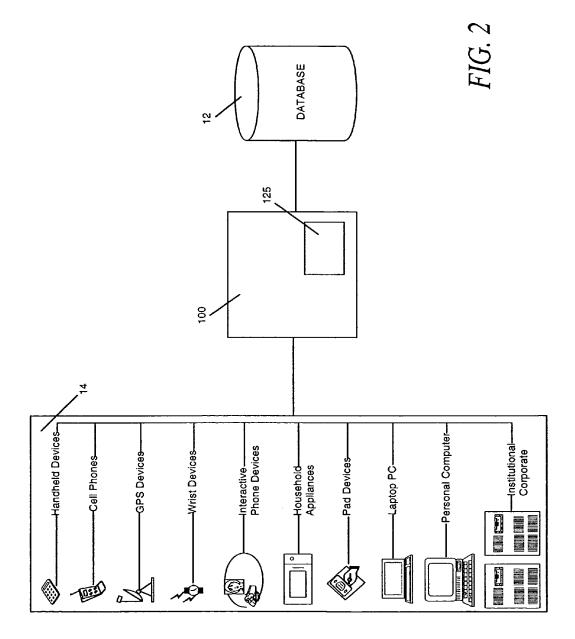


FIG. 1





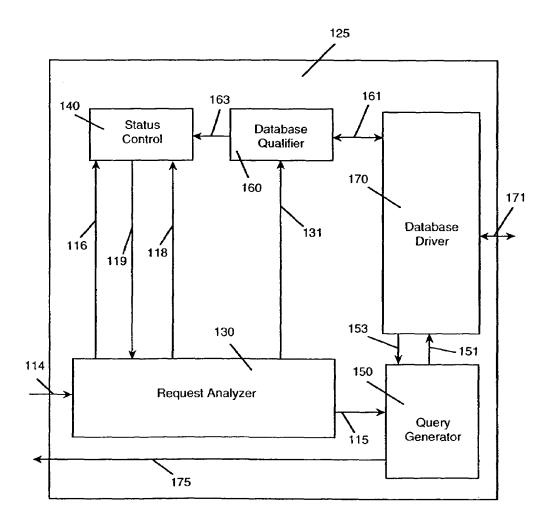
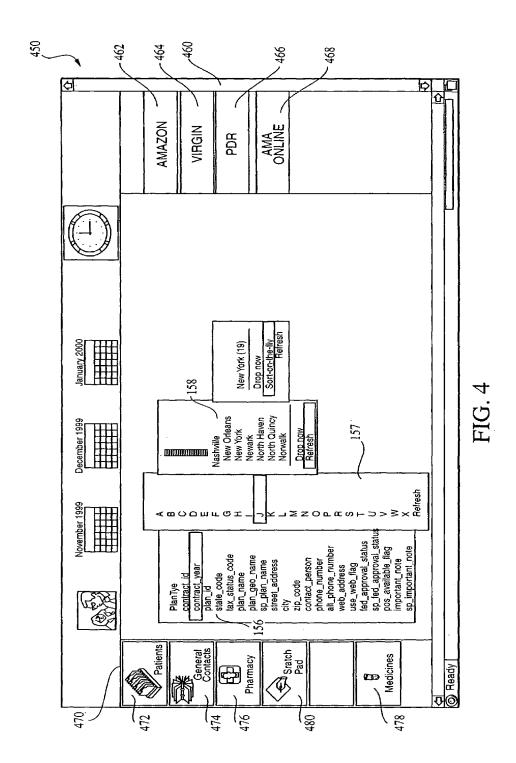


FIG. 3







# DOCKET A L A R M

## 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.

