(12) **United States Patent**
Levine

(10) **Patent No.:** **US 7,447,686 B2**
(45) **Date of Patent:** **Nov. 4, 2008**

(54) **COMPUTER-IMPLEMENTED SYSTEM AND METHOD FOR HANDLING DATABASE STATEMENTS**

(75) Inventor: **Frederick J. Levine**, Durham, NC (US)

(73) Assignee: **SAS Institute Inc.**, Cary, NC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 921 days.

(21) Appl. No.: **10/303,106**

(22) Filed: **Nov. 22, 2002**

(65) **Prior Publication Data**

US 2004/0103100 A1 May 27, 2004

(51) **Int. Cl.**
G06F 7/00 (2006.01)
G06F 17/30 (2006.01)

(52) **U.S. Cl.** **707/4**; 707/3; 707/100

(58) **Field of Classification Search** 707/3, 707/4, 100
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,421,008 A	*	5/1995	Banning et al.	707/4
5,590,319 A	*	12/1996	Cohen et al.	707/4
5,659,725 A	*	8/1997	Levy et al.	707/3
6,041,344 A	*	3/2000	Bodamer et al.	709/203
6,941,298 B2	*	9/2005	Chow et al.	707/3

* cited by examiner

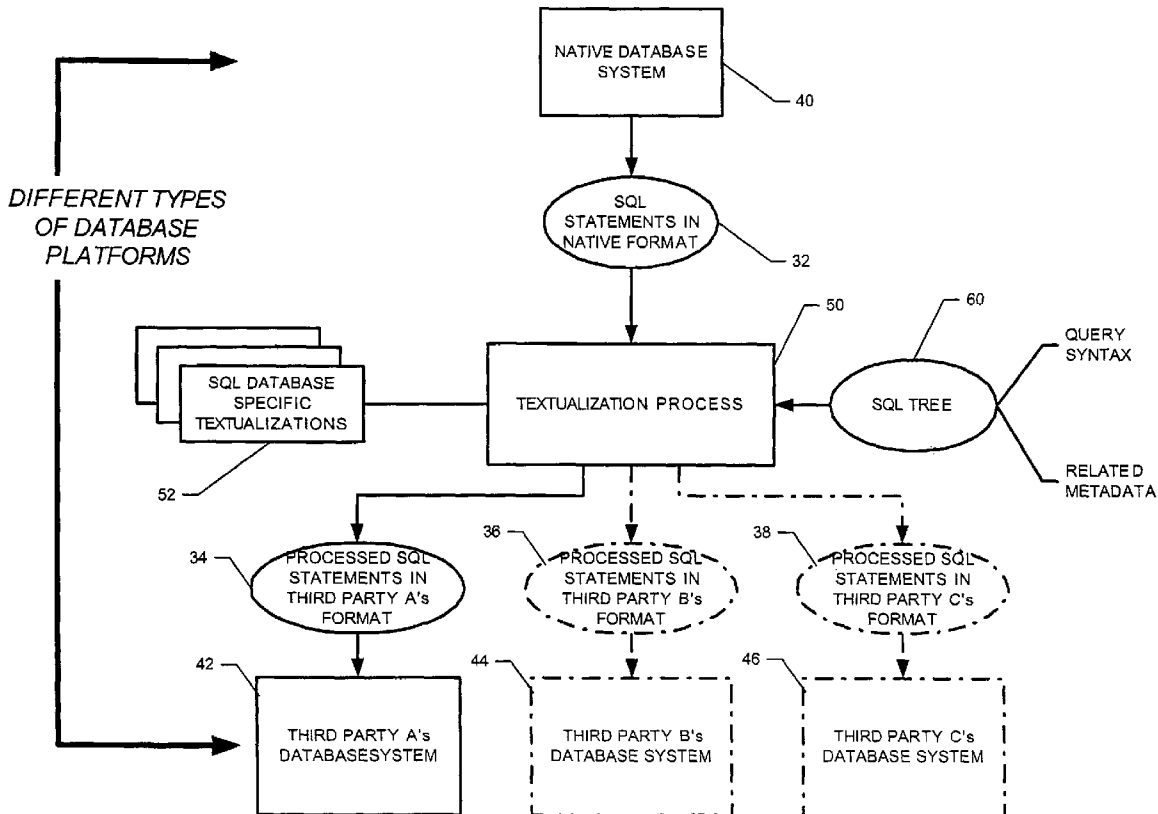*Primary Examiner*—Neveen Abel-Jalil
Assistant Examiner—Jacob F Bétit
(74) *Attorney, Agent, or Firm*—Jones Day

(57) **ABSTRACT**

A computer-implemented system and method for handling a database statement from a first database system. The database statement is formatted according to a language format used by the first database system. Database language difference data is accessed so that a database specific statement may be generated which is operational within a different type of database system.
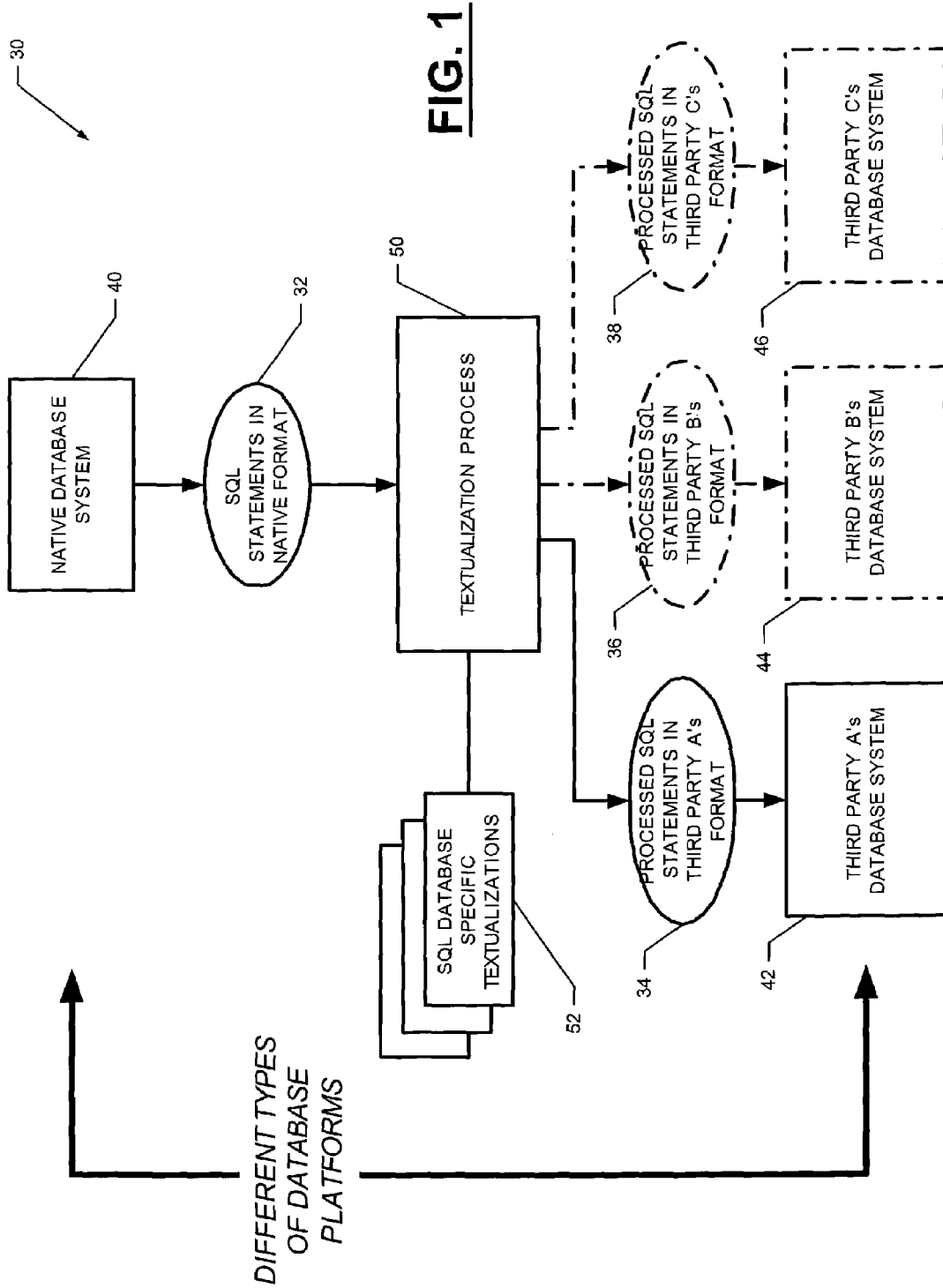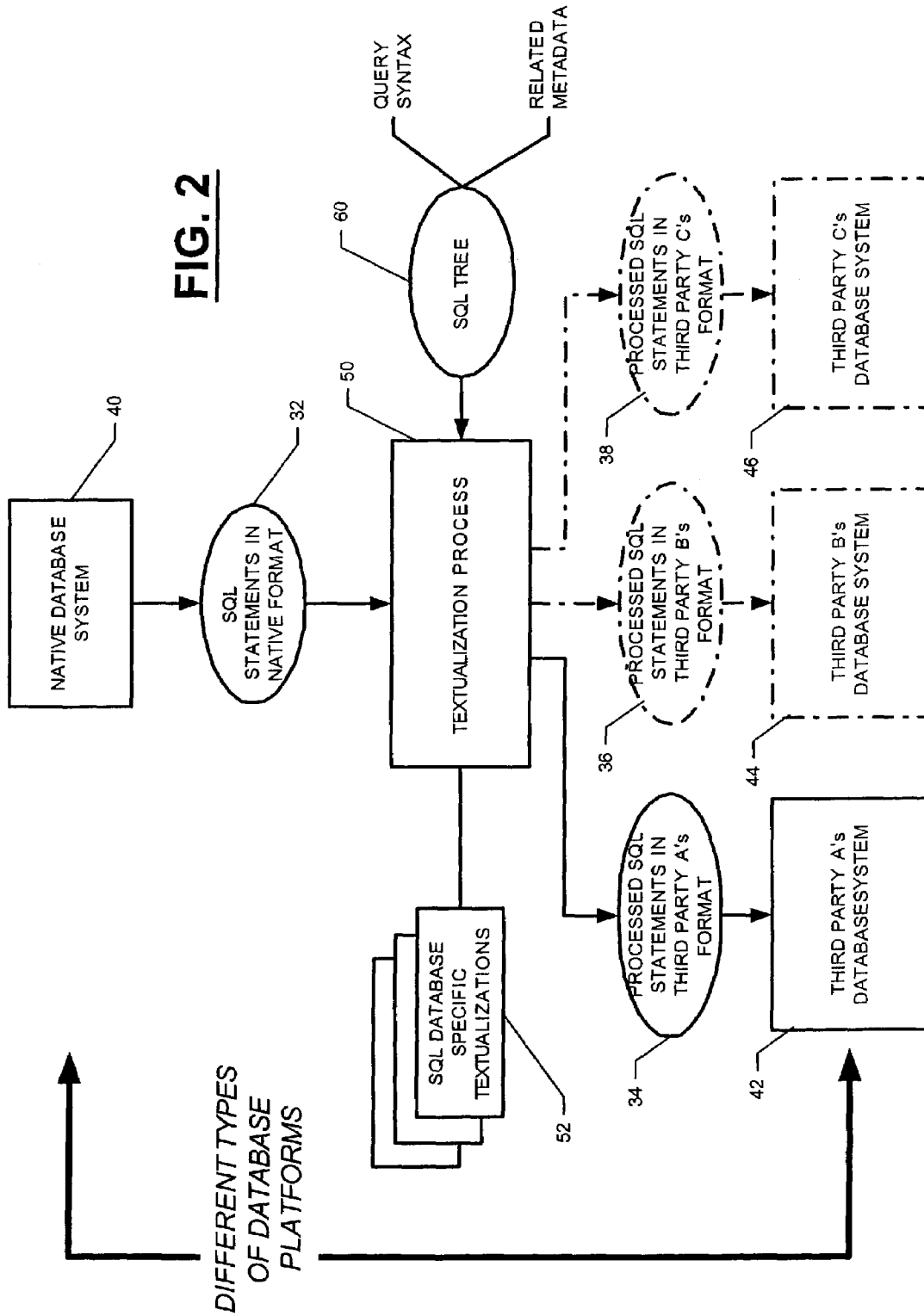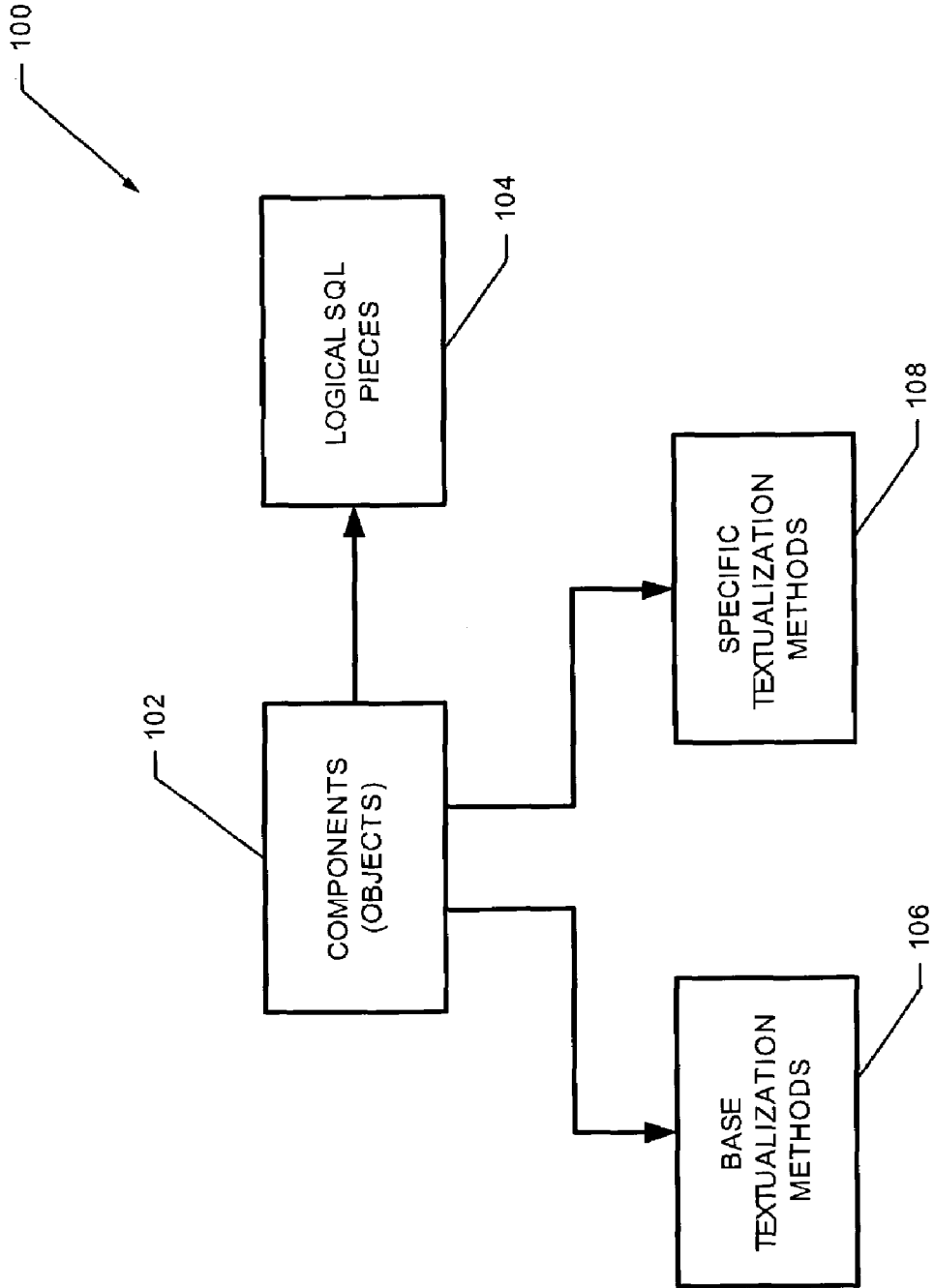
50 Claims, 19 Drawing Sheets

FIG. 1

FIG. 2

100

LOGICAL SQL
PIECES

104

COMPONENTS
(OBJECTS)

102

SPECIFIC
TEXTUALIZATION
METHODS

108

BASE
TEXTUALIZATION
METHODS

106

FIG. 3

FIG. 4

DOCKET ALARM
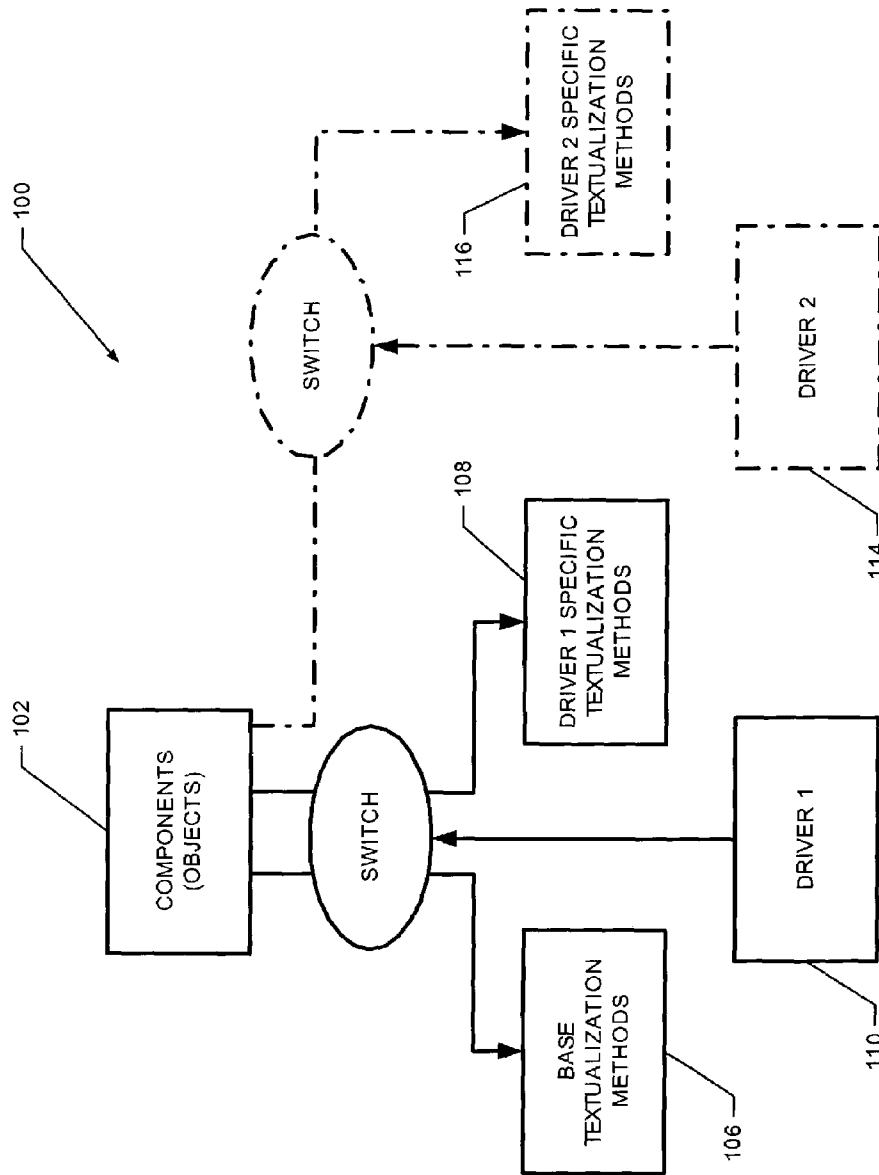
Explore Litigation Insights

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.

fastcase®
Smarter legal research.