

US008548939B2

### (12) United States Patent

### **Enenkiel**

# (10) Patent No.: US 8,548,939 B2 (45) Date of Patent: Oct. 1, 2013

(54)	METHODS, SYSTEMS AND COMPUTER
	PROGRAMS FOR PROCESSING DATA IN A
	WORLD-WIDE-WEB SERVICE
	ENVIRONMENT

(75) Inventor: Achim Enenkiel, Karlsruhe (DE)

(73) Assignee: SAP AG, Walldorf (DE)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 642 days.

(21) Appl. No.: 11/108,644

(22) Filed: Apr. 19, 2005

(65) Prior Publication Data

US 2006/0047764 A1 Mar. 2, 2006

(30) Foreign Application Priority Data

Apr. 21, 2004 (EP) ...... 04009396

(51) **Int. Cl.** 

 $G06F\ 17/30$  (2006.01)

(52) U.S. Cl.

(58) Field of Classification Search

None

See application file for complete search history.

### (56) References Cited

### U.S. PATENT DOCUMENTS

4,799,156 4,947,028 5,317,688 5,383,113 5,701,451 5,809,144 5,991,733 6,389,403	A A A A A	* * * * *	8/1990 5/1994 1/1995 12/1997 9/1998 11/1999	Shavit et al. Gorog Watson et al. Kight et al. Rogers et al. Sirbu et al. Aleia et al. Dorak, Jr.	235/380 715/707 705/40 707/1 705/53 705/8
6,389,403 6,442,526				Dorak, Jr Vance et al	

6,604,135 B1	8/2003	Rogers et al.
6,850,950 B1*	2/2005	Clarke et al 707/104.1
7,707,120 B2*	4/2010	Dominguez et al 705/78
2001/0049632 A1	12/2001	Rigole
2002/0087583 A1*	7/2002	Morgan et al 707/200
2003/0172090 A1*	9/2003	Asunmaa et al 707/200
2004/0133479 A1*	7/2004	Grove et al 705/26
2005/0065993 A1*	3/2005	Honda et al 709/200

#### FOREIGN PATENT DOCUMENTS

EP	0 969 430 A1	1/2000
EP	1 081 617 A2	3/2001
WO	WO 02/037393 A2	5/2002

### OTHER PUBLICATIONS

Anders Tornqvist et al., "XML and Objects—the future for e-Forms on the Web," Enabling Technologies: Infrastructure for Collaborative Enterprises, 1999. (Wet Ice '99). Proceedings IEEE 8<sup>th</sup> International Workshops on Stanford, CA, USA, Jun. 16-18, 1999, Los Alamitos, CA, USA, IEEE Compt. Soc., US, Jun. 16, 1999, pp. 303-308. European Search Report, dated Dec. 3, 2004 (3 pages).

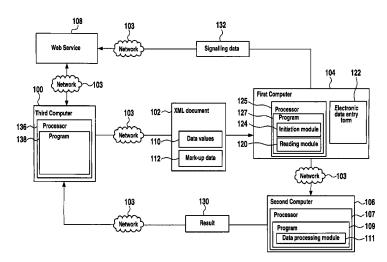
### \* cited by examiner

Primary Examiner — Debbie Le (74) Attorney, Agent, or Firm — Finnegan, Henderson, Farabow, Garrett & Dunner, LLP

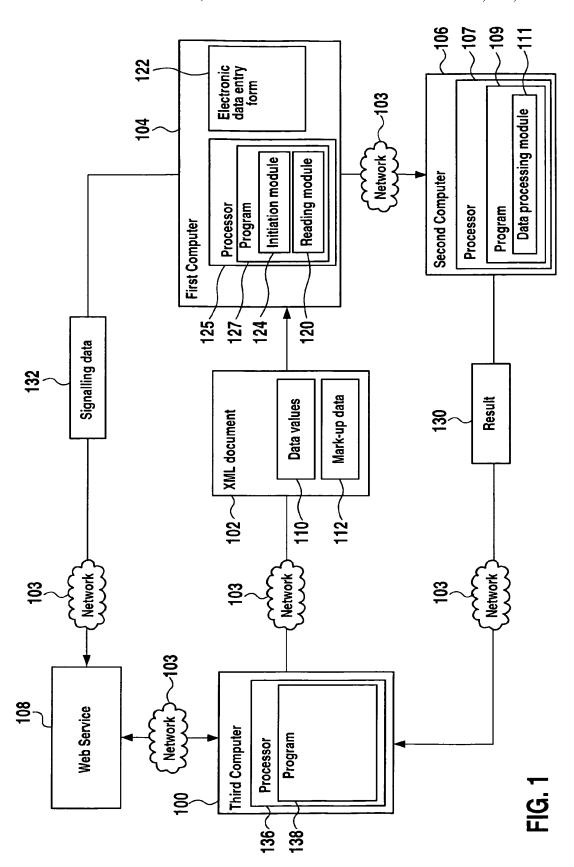
### (57) ABSTRACT

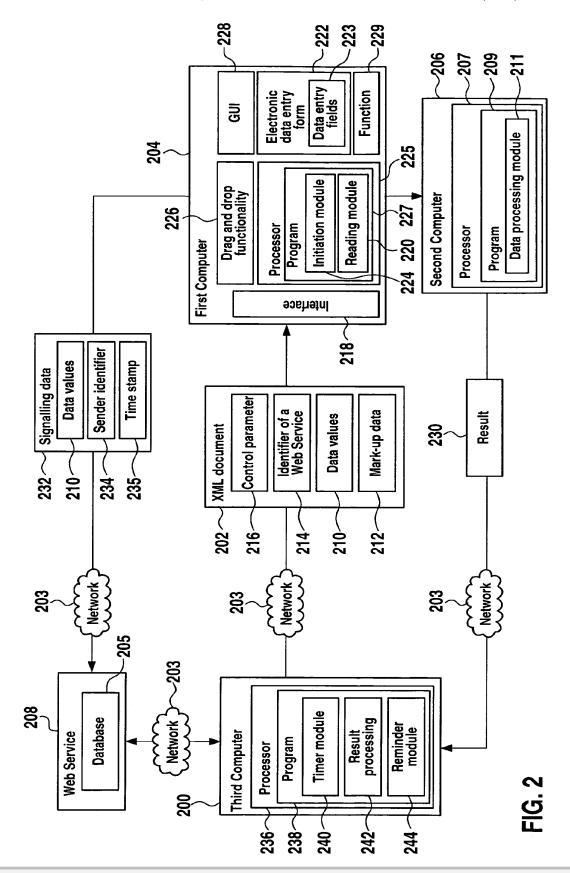
Methods, systems and computer programs are provided for processing data in a web service environment. In accordance with one embodiment, a data processing method is provided that comprises: entering data values into respective data entry fields of an electronic data entry form of a first computer; entering an identifier of a web service into the first computer; initiating a data processing stage to be performed by a second computer on the basis of the data values entered into the electronic data entry form by the first computer; sending signalling data for signalling initiation of the data processing stage to a web service; and sending a result of the data processing stage to a third computer, the third computer being coupled to the web service.

#### 29 Claims, 5 Drawing Sheets









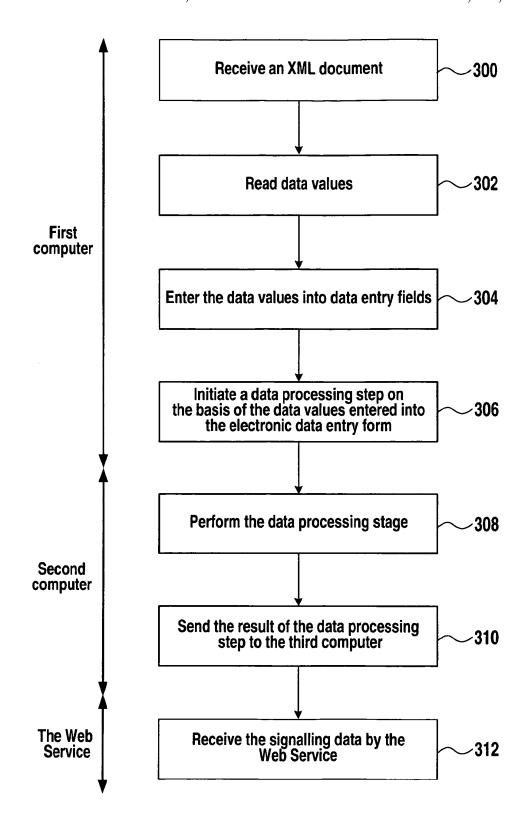
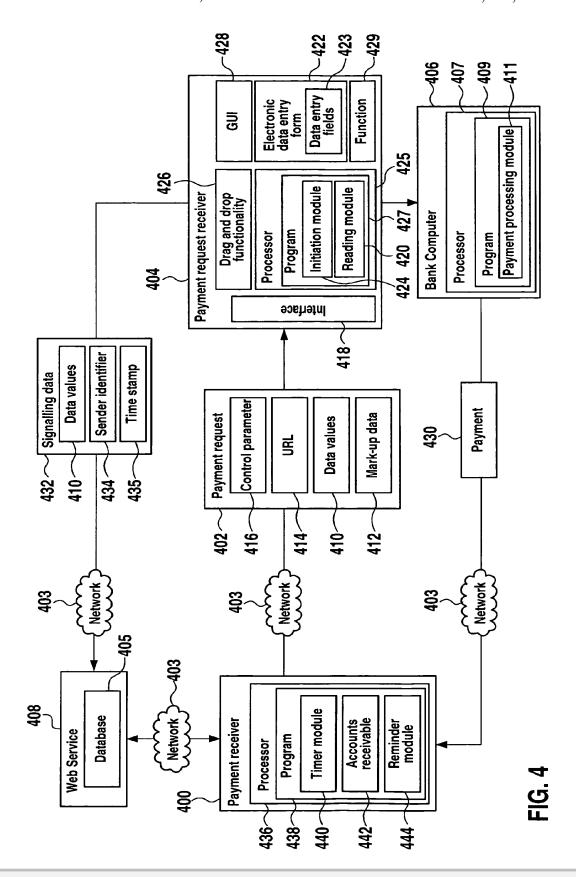


FIG. 3



# DOCKET

# 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.

