

(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2002/0069192 A1****Aegerter**(43) **Pub. Date:****Jun. 6, 2002**(54) **MODULAR DISTRIBUTED MOBILE DATA APPLICATIONS****Publication Classification**(76) Inventor: **William Charles Aegerter**, Portland, OR (US)(51) **Int. Cl.⁷** **G06F 7/00**(52) **U.S. Cl.** **707/1**

Correspondence Address:

Micah D. Stolzowitz**Stoel Rives LLP****Suite 2600****900 SW Fifth****Portland, OR 97204 (US)**

(57)

ABSTRACT

Computer-implemented system and methods for deploying a distributed client-server system, enabling developers to rapidly create and deploy read-write distributed data interfaces for host database systems. The disclosed system is especially advantageous for mobile clients as connection to the server environment can be intermittent without unduly impeding local (disconnected) operations. One important aspect of the invention is an incremental process for executing an application servo in a client device. This process includes building and incrementally maintaining a logical context tree in which each node expresses a complete current state of the execution process.

(21) Appl. No.: **10/006,200**(22) Filed: **Dec. 4, 2001****Related U.S. Application Data**

(63) Non-provisional of provisional application No. 60/251,285, filed on Dec. 4, 2000.

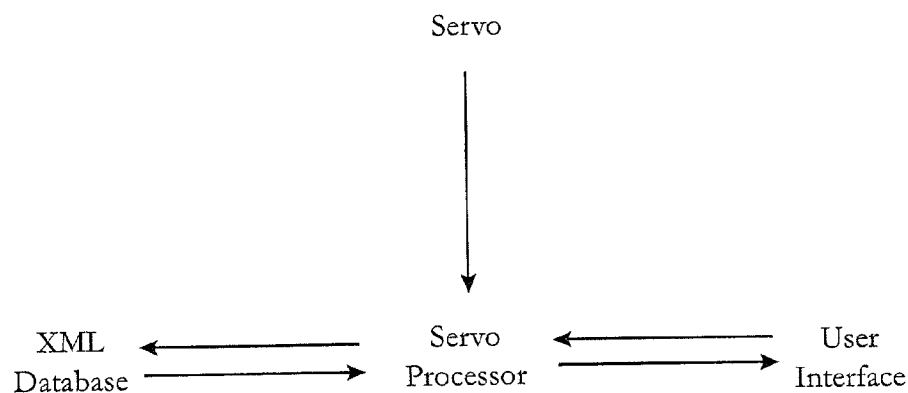
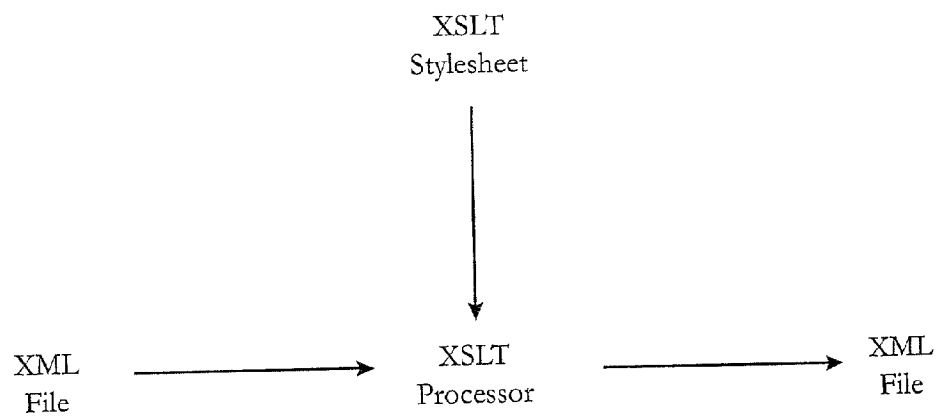
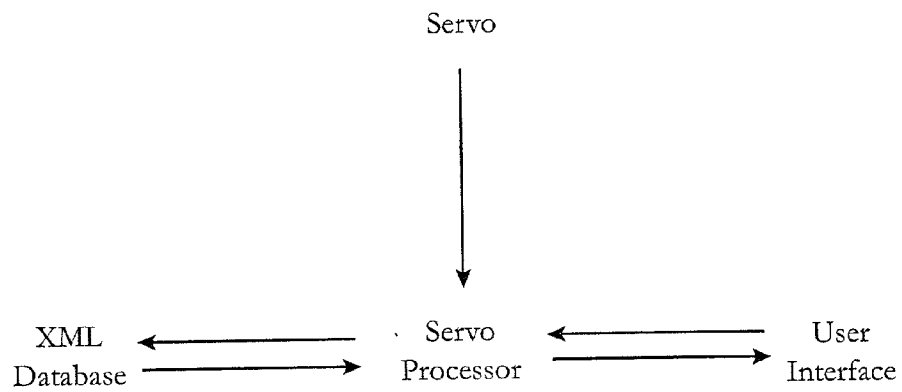


Figure 1



(PRIOR ART)

Figure 2



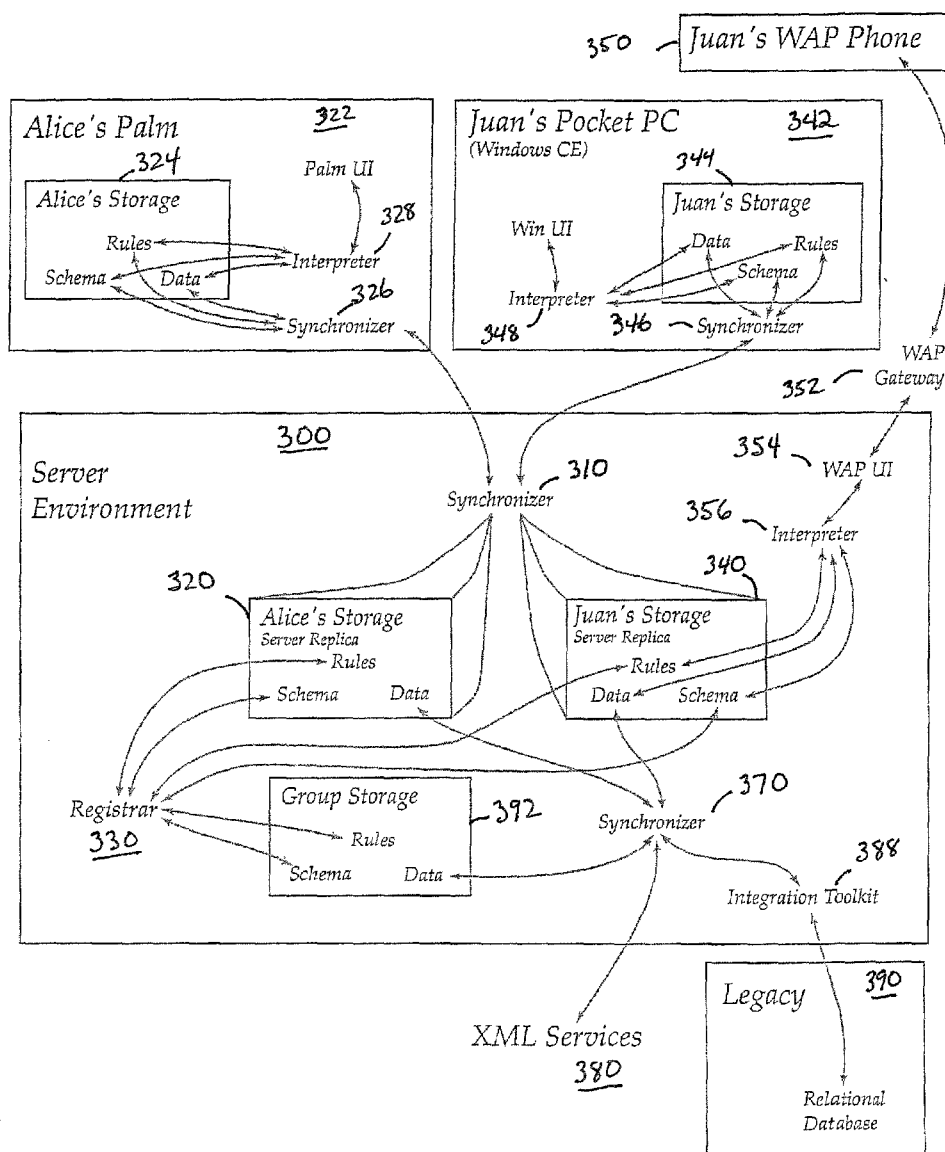


Fig. 3

Servo Template

```
400 <xsl:template match='wh:obj' >
402     <html:div >
404         <html:span > <xsl:value-of select='@barId' /> </html:span >
406         <ts:edit select='wh:desc' />
408         <ts:expandable >
410             <ts:hideable >
412                 <xsl:apply-templates select='key("objBy", @barId)' />
414             </ts:hideable >
416         </ts:expandable >
418     </html:div >
419 </xsl:template >
```

Fig. 4A

Database Fragment

```
420 <wh:objects >
422     <wh:obj wh:barId='271' >
424         <wh:desc > black metal cabinet </wh:desc >
426     </wh:obj >
428     <wh:obj wh:barId='259' wh:last='271' >
430         <wh:desc > top shelf </wh:desc >
432     </wh:obj >
434 </wh:objects >
```

Fig. 4B

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.