

(19) United States

Chandrasekharan et al.

(12) Patent Application Publication (10) Pub. No.: US 2006/0271537 A1

(43) **Pub. Date:** Nov. 30, 2006

(54) APPARATUS, SYSTEM, AND METHOD FOR AUTOMATICALLY GENERATING A REUSABLE SOFTWARE COMPONENT FOR INTERFACING WITH A WEB SERVICE

 (76) Inventors: Sivakumar Chandrasekharan, Alameda, CA (US); Sujee Sivasubramaniyam, San Mateo, CA (US)

> Correspondence Address: KUNZLER & ASSOCIATES 8 EAST BROADWAY SUITE 600 SALT LAKE CITY, UT 84111 (US)

- (21) Appl. No.: 11/128,068
- (22) Filed: May 12, 2005

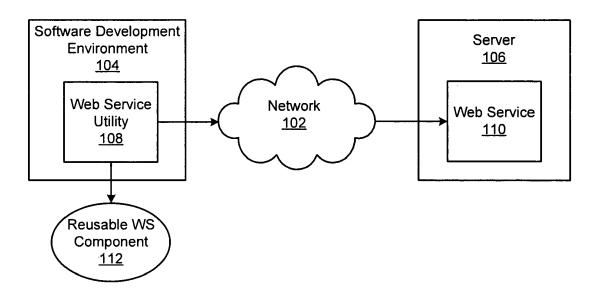
Publication Classification

- (51) Int. Cl. *G06F* 7/00 (2006.01) *G06F* 17/30 (2006.01)
 - 100

DOCKF

(57) **ABSTRACT**

An apparatus, system, and method are disclosed for automatically generating a reusable software component for interfacing with a web service. The apparatus for automatically generating a reusable software component for interfacing with a web service is provided with a logic unit containing a plurality of module configured to functionally execute the steps of receiving a web service identifier, establishing communication with a web service, determining one or more functions provided by the web service, and automatically generating a reusable web service component configured to receive an application request and return a web service result. These modules in the described embodiments include a receiving module, a determination module, a communication module, and a generation module. Beneficially, such an apparatus, system, and method would facilitate creation, test, and integration of web service components in application code without requiring a substantial time and resource investment.





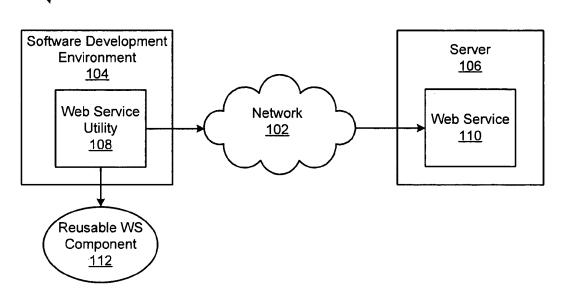
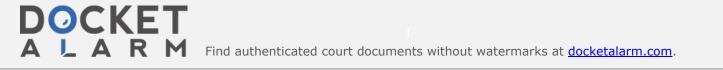


FIG. 1



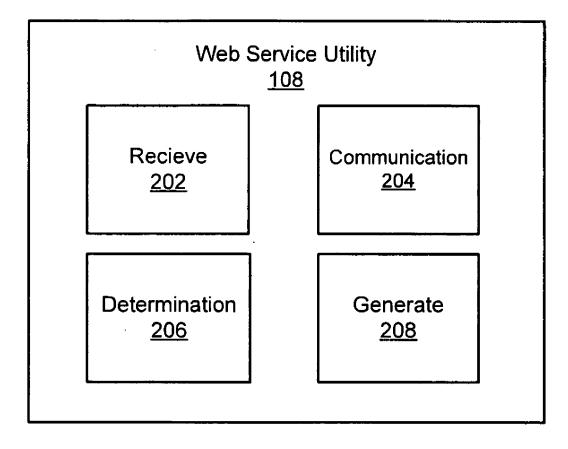


FIG. 2

DOCKET RM Α Δ Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

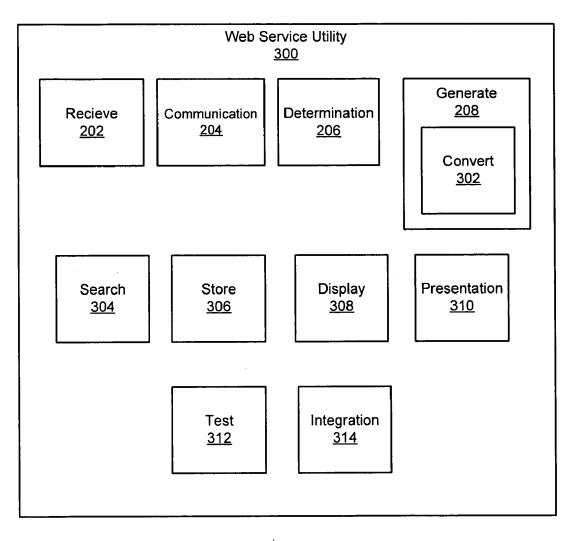


FIG. 3



400

System Manager - WebSphere Stud File Edit Navigate Search Project Com		
	@ 2 @ 3 4 2 .	
🗳 WebSphere Btem Manager 🔻 🗙	agoogle x	Heb Service Methods X
402 402 403 403 4050 Here Bten Manager ▼ × 405 4050 Here Bten Manager ▼ × 4050 Here Bten Manager * 4050 Here	google 404 412 URL: http://api.google.com//GoogleSearch.wsdl Store WSDL Create Business Object Definitors 408 410 (2) Available Operations [3] 408 410 Operation Input BO Output BO I doSpellingSuggestion WS_Google_DoSpellingSu WS_Google_DoSpellingSu WS_Google_DoSpellingSu wS_Google_DoSopelingSu WS_Google_DoSopelingSu WS_Google_DoSopelingSu WS_Google_DoSopelingSu	Http://ajl.google.com/CoopleSear doGetCachedPage doGetCachedPage doGeogleSearch doGoogleSearch doGoogleSearch forunt : WS_Google_DoGoogle Counter WS_Google DoGoogle Fault : NotAvalable
amezon 414 bush (
country	Overview X doGoogleSearch	<u> </u>
emailVaidate	🕲 Console	g. *
cooge googeRendom homeland population - rpm sendmal - spel	<pre>: _⁢/b>: Home, www.:sujee . (summary wsi:type="wsd:string">></pre> /title xsi:type="wsd:string">> /title xsi:type="wsd:string">> /title xsi:type="wsd:string">> //tca> //resultElements) /searchComments xsi:type="wsd:string">>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	100

FIG. 4A

DOCKET **A L A R M** Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

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.