

(12) **United States Patent**  
**Vishwanath et al.**

(10) **Patent No.:**     **US 6,216,157 B1**  
(45) **Date of Patent:**     **\*Apr. 10, 2001**

(54) **METHOD AND APPARATUS FOR A CLIENT-SERVER SYSTEM WITH HETEROGENEOUS CLIENTS**

5,794,039 \* 8/1998 Guck ..... 395/683  
5,805,073 \* 9/1998 Agano et al. .... 340/825.07

(List continued on next page.)

(75) Inventors: **Mohan Vishwanath**, San Jose; **Anurag Mendhekar**, Sunnyvale, both of CA (US)

**OTHER PUBLICATIONS**

(73) Assignee: **Yahoo! Inc.**, Santa Clara, CA (US)

Timothy W. Bickmore, Bill N. Schilit, Digestor: device-independent access to the World Wide Web, Computer Networks and ISDN Systems 29 (1997), pp. 1076-1082.

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

Randy Sartin: HP JetSend: Off-the-Cuff Communication, BYTE, vol. 23, No. 4, Apr. 1988, pp. 49-50.

This patent is subject to a terminal disclaimer.

Ferguson et al., Quality of Service on the Internet: Fact, Fiction, or Compromise?, Http://www.telstra.net/gih/inet98/index.html, 26 pages, Jan. 1998.\*

(21) Appl. No.: **09/098,670**

*Primary Examiner*—Mark H. Rinehart

(22) Filed: **Jun. 17, 1998**

*Assistant Examiner*—Bunjob Jaroenchonwanit

**Related U.S. Application Data**

(74) *Attorney, Agent, or Firm*—Fliesler Dubb Meyer & Lovejoy LLP

(63) Continuation-in-part of application No. 08/970,735, filed on Nov. 14, 1997.

(57) **ABSTRACT**

(51) **Int. Cl.**<sup>7</sup> ..... **G06F 13/38; G06F 15/17**

Method and apparatus to deliver an application to a client through a transmission medium. The application can be an interactive application, and the apparatus includes an appliance-specific transducer and an adaptive-transmission transducer. The appliance-specific transducer, in view of the client's request for the interactive application in the server, is configured to modify the application based on at least one characteristic of the client and at least one characteristic of the application to generate an appliance-specific output. Based on at least one characteristic of the application and at least one characteristic of the medium of transmission, the adaptive-transmission transducer is configured to modify the appliance-specific output to generate an adapted output. The output is delivered through the medium to the client, which includes a decoder and a user-interface. The decoder decodes the adapted output to produce a modified version of the interactive application to be used by a party through the user-interface. In another embodiment, the application can be a push application.

(52) **U.S. Cl.** ..... **709/208; 709/203**

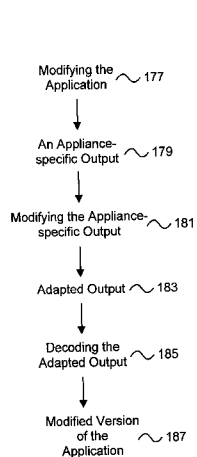
(58) **Field of Search** ..... 709/208, 203, 709/217, 204, 210, 209, 228, 231, 219, 206; 370/352, 400; 379/88.06; 705/37; 345/333, 340

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

5,513,269	*	4/1996	DeVet et al. ....	381/123
5,566,022	*	10/1996	Segev .....	359/172
5,570,085		10/1996	Bertsch .....	340/825.07
5,579,308	*	11/1996	Humpleman .....	370/58.1
5,608,786		3/1997	Gordon .....	379/100
5,629,978	*	5/1997	Blumhardt et al. ....	379/201
5,694,163		12/1997	Harrison .....	348/13
5,787,254		7/1998	Maddalozzo, Jr. et al. ....	709/225

**13 Claims, 11 Drawing Sheets**



U.S. PATENT DOCUMENTS

5,838,683	*	11/1998	Corley et al.	.....	370/408	5,933,603		8/1999	Vahalia	.....	709/225
5,848,415	*	10/1998	Guck	.....	707/10	5,940,387	*	8/1999	Humpleman	.....	370/352
5,864,870	*	1/1999	Guck	.....	707/104	5,943,496		8/1999	Li et al.	.....	395/685
5,892,758	*	4/1999	Argyroudis	.....	370/335	5,944,795	*	8/1999	Civanlar	.....	709/227
5,907,322		5/1999	Kelly et al.	.....	345/327	5,945,991		8/1999	Britt et al.	.....	345/333
5,909,183	*	6/1999	Borgstahl et al.	.....	340/825.22	5,956,737	*	9/1999	King et al.	.....	707/517
5,909,215		6/1999	Berstis et al.	.....	345/340	5,983,263	*	11/1999	Rothrock et al.	.....	709/204
5,911,776	*	6/1999	Guck	.....	709/217	5,986,662	*	11/1999	Argiro et al.	.....	345/424
5,915,091		6/1999	Ludwig et al.	.....	709/204	6,002,871	*	12/1999	Duggan et al.	.....	395/704
5,933,141		8/1999	Smith	.....	345/339						

\* cited by examiner

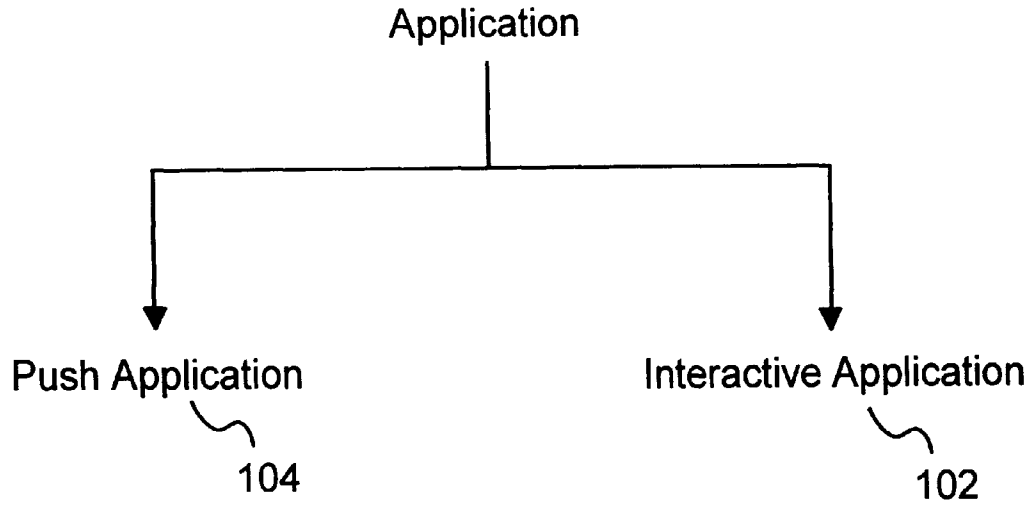


Figure 1

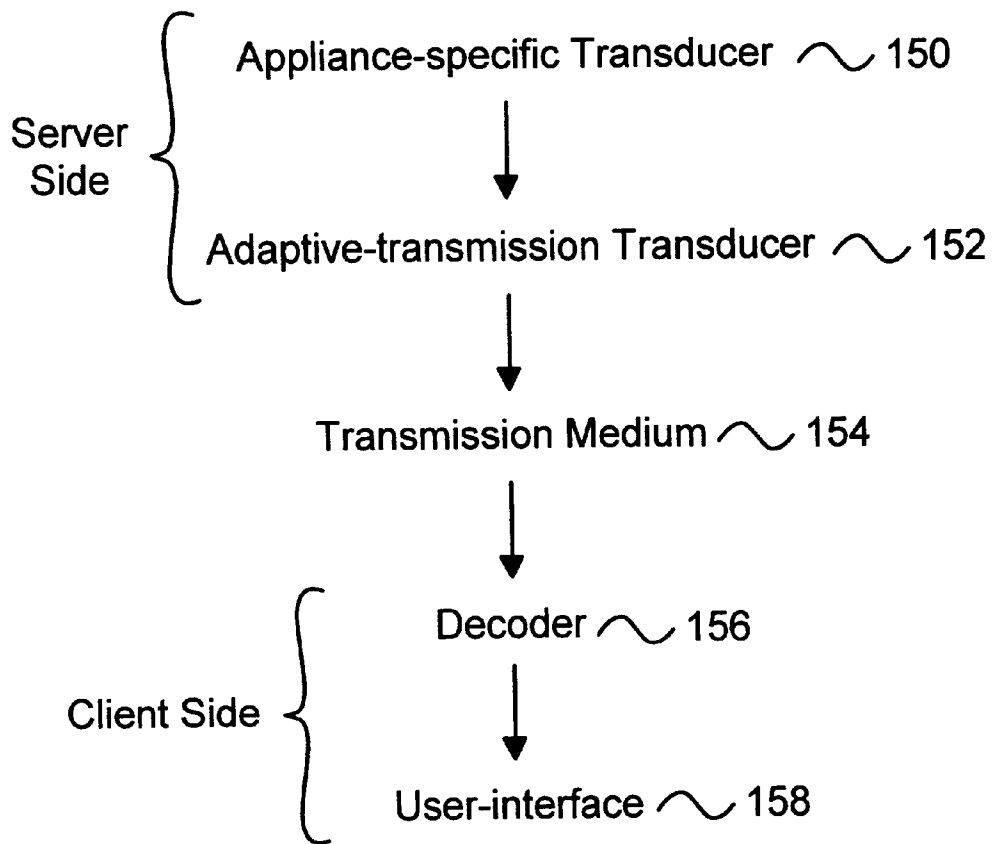


Figure 2

~ 175

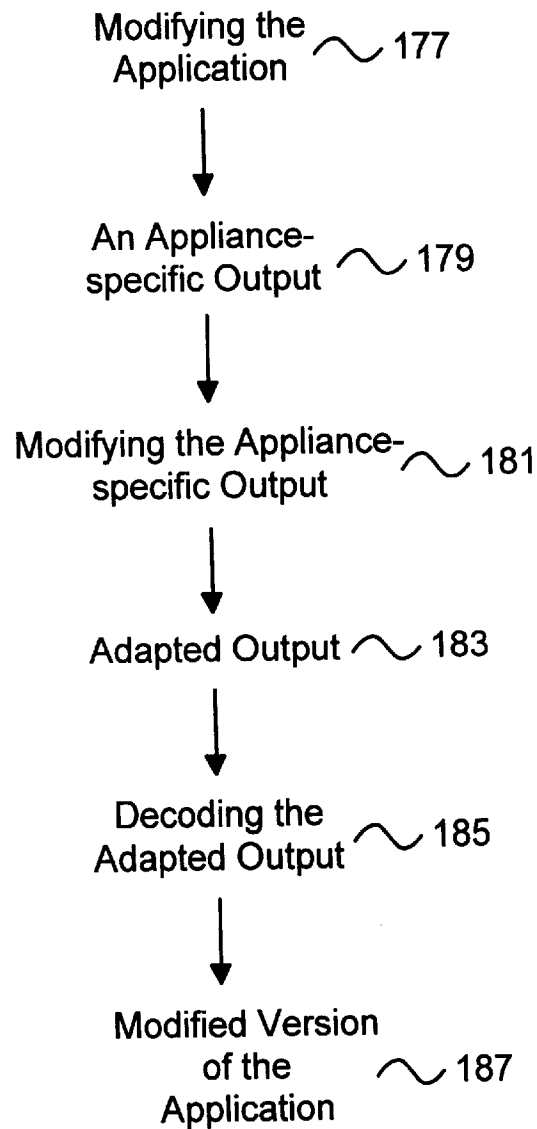


Figure 3

# 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.