



US006311058B1

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

(10) **Patent No.:** **US 6,311,058 B1**
(45) **Date of Patent:** **Oct. 30, 2001**

(54) **SYSTEM FOR DELIVERING DATA CONTENT OVER A LOW BIT RATE TRANSMISSION CHANNEL**

(75) Inventors: **Dave Wecker**, Bothell; **Vinay Deo**, Bellevue; **John Mark Miller**, Kirkland; **David Tuniman**; **Michael J. O'Leary**, both of Redmond, all of WA (US)

(73) Assignee: **Microsoft Corporation**, Redmond, WA (US)

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

(21) Appl. No.: **09/107,666**

(22) Filed: **Jun. 30, 1998**

(51) **Int. Cl.**⁷ **H04M 3/00**

(52) **U.S. Cl.** **455/418**; 455/419; 455/412

(58) **Field of Search** 455/412, 437, 455/422, 403, 418, 419, 186; 370/486, 85.13; 379/93.25; 395/500, 200.34; 700/10; 600/300

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,559,800	*	9/1996	Mousseau et al.	370/85.13
5,799,151	*	8/1998	Hoffer	395/200.34
5,905,856	*	5/1999	Offensooser	395/183.14
5,923,738	*	8/1999	Cardillo, IV et al.	379/93.25
5,935,060	*	8/1999	Iliff	600/300

5,943,496	*	8/1999	Li et al.	395/685
5,946,326	*	8/1999	Rinne	370/486
5,963,944	*	10/1999	Adams	707/10
5,974,085	*	10/1999	Smith	375/222
5,974,238	*	10/1999	Chase, Jr.	395/200.78
6,005,490	*	12/1999	Higashihara	340/825.72
6,041,183	*	3/2000	Hayafune et al.	395/712
6,151,610	*	11/2000	Senn et al.	707/516

OTHER PUBLICATIONS

"Dynamic Documents: Mobile Wireless Access to the WWW", by M. Frans Kaashoek et al., *IEEE*, Dec. 8, 1994, pp. 179-184.

"Extending HTML in a principled way with displets", by Fabio Vitali, Chao-Min Chiu, Michael Bieber, *Computer Networks and ISDN Systems*, vol. 29, No. 8-13, Sep. 1, 1997, pp. 1115-1128.

"Minstrel™ Plus" brochure, for Novatel Wireless, Inc., copyright 1998.

* cited by examiner

Primary Examiner—Daniel Hunter

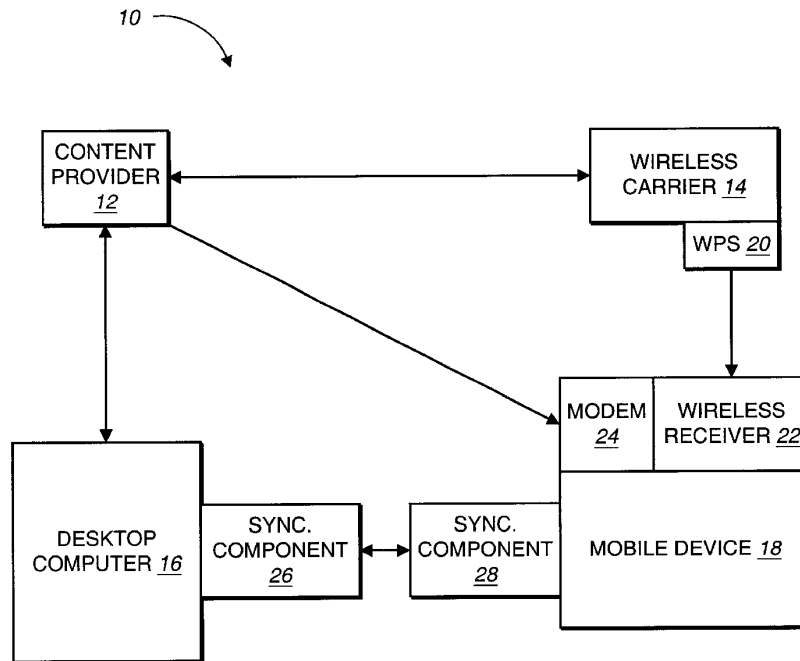
Assistant Examiner—C. Chow

(74) *Attorney, Agent, or Firm*—Joseph R. Kelly; Westman, Champlin & Kelly, P.A.

(57) **ABSTRACT**

The present invention provides a system by which information content data is delivered to a mobile device. The web content is divided into data and script information. The script information is used to operate on the data to render the data in a predetermined format.

34 Claims, 6 Drawing Sheets



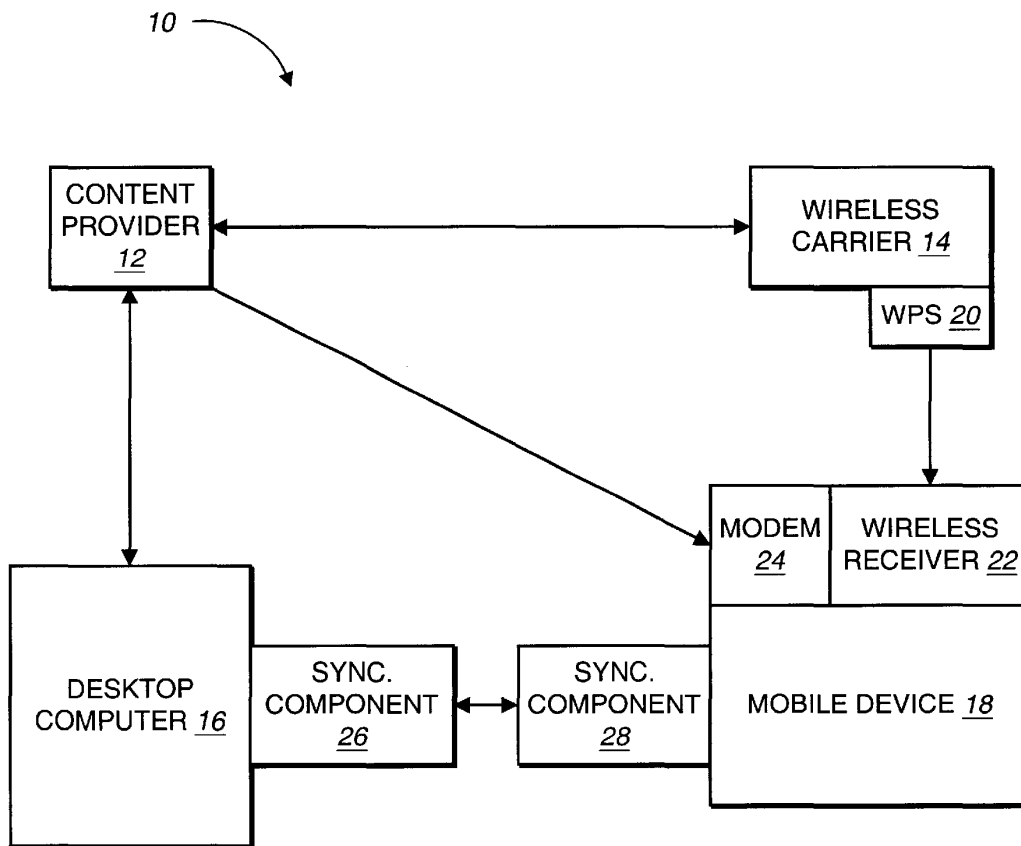


FIG. 1

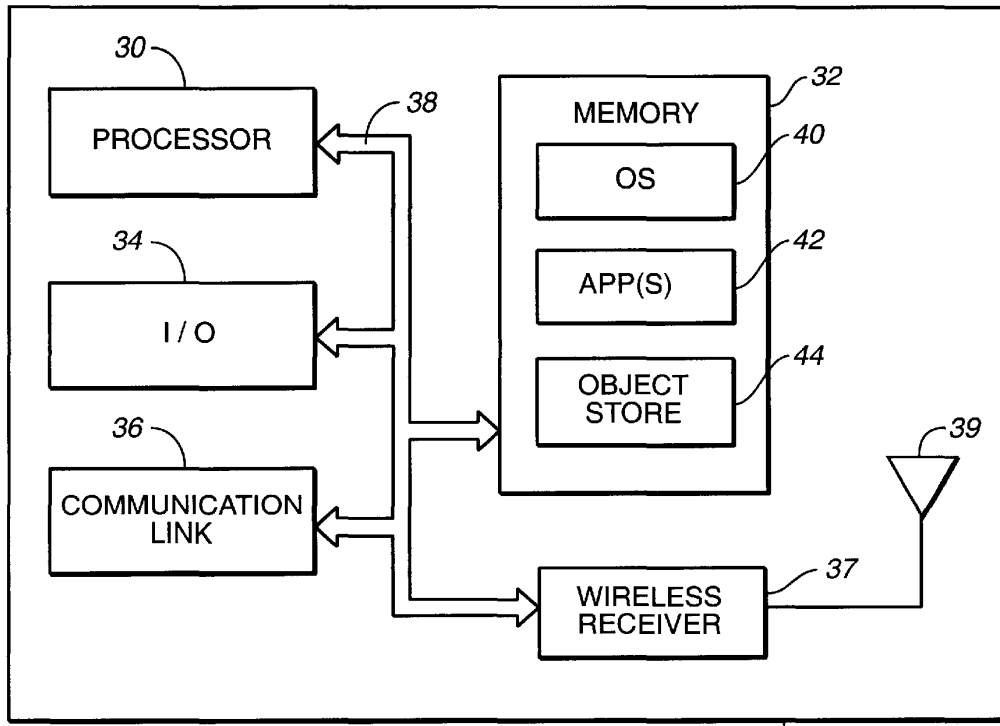


FIG. 2

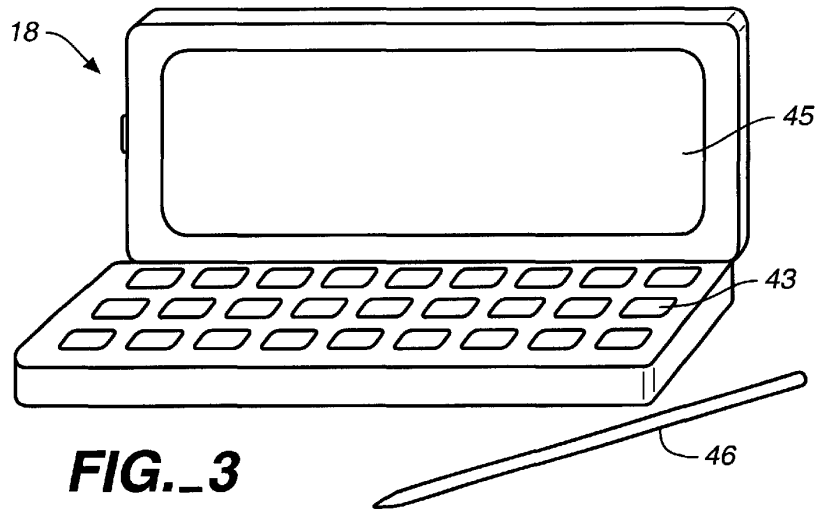


FIG. 3

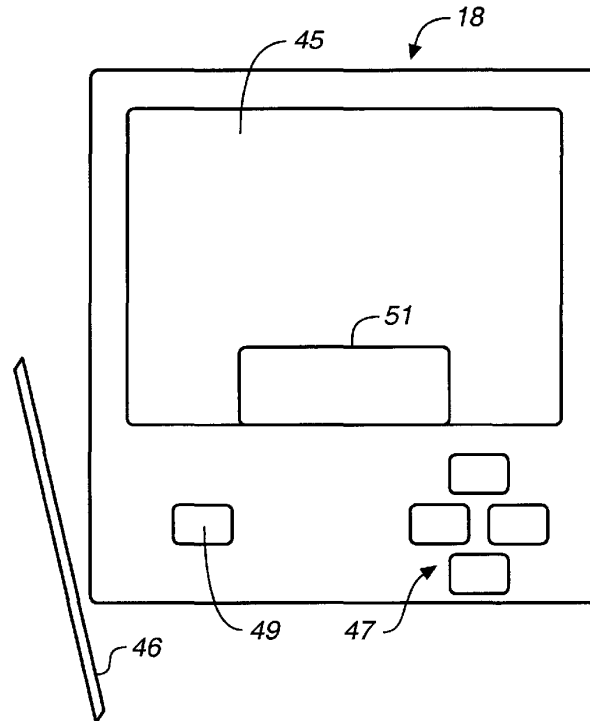


FIG. 4

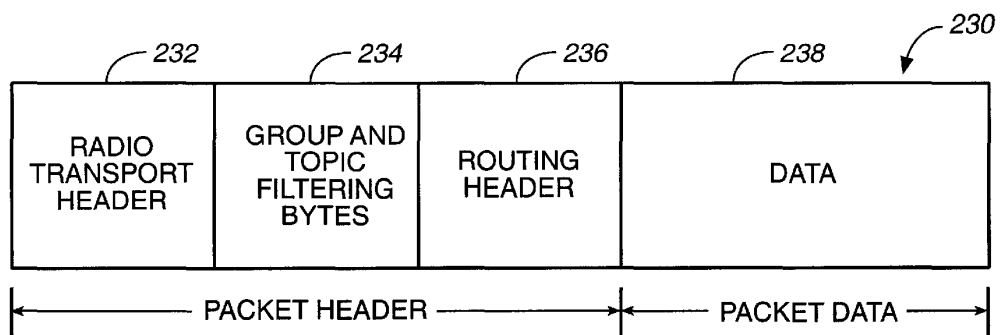


FIG. 7

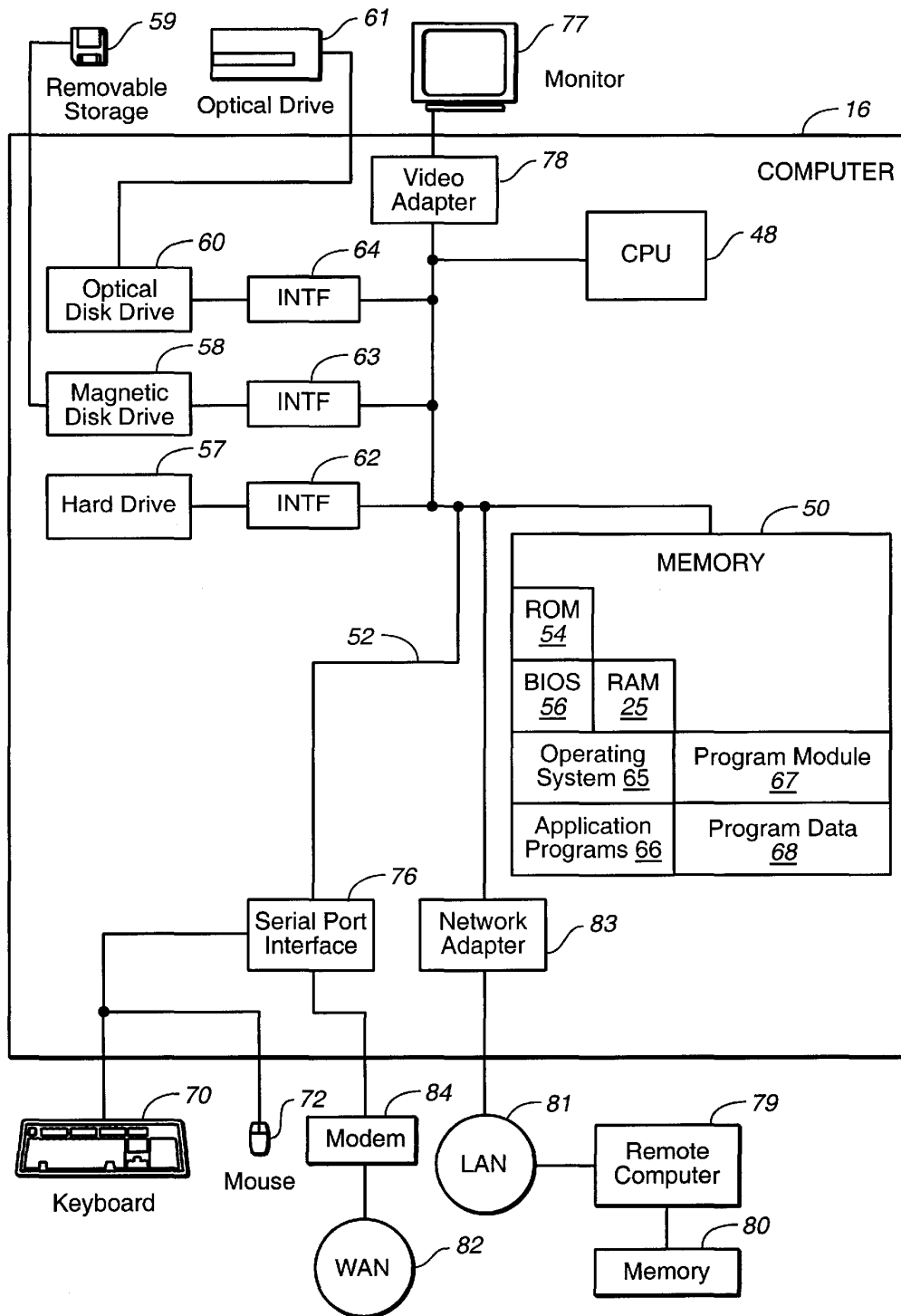


FIG. 5

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.