



US006463304B2

(12) **United States Patent**
Smethers

(10) **Patent No.:** **US 6,463,304 B2**
(45) **Date of Patent:** ***Oct. 8, 2002**

(54) **APPLICATION LAUNCHER FOR A TWO-WAY MOBILE COMMUNICATIONS DEVICE**

(75) Inventor: **Paul A. Smethers**, Cupertino, CA (US)

(73) Assignee: **Openwave Systems Inc.**, Redwood City, CA (US)

(*) Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

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.: **09/262,440**

(22) Filed: **Mar. 4, 1999**

(65) **Prior Publication Data**

US 2002/0077156 A1 Jun. 20, 2002

(51) **Int. Cl.**⁷ **H04B 1/38**

(52) **U.S. Cl.** **455/566; 455/575; 345/810**

(58) **Field of Search** **455/566, 550, 455/575; 379/368, 88.12; 345/348, 810, 835, 752, 169; 341/23; 340/7.52, 7.55, 7.56**

(56) **References Cited**

U.S. PATENT DOCUMENTS

- 4,617,657 A 10/1986 Drynan et al.
- 5,199,104 A 3/1993 Hirayama
- 5,425,077 A 6/1995 Tsoi
- 5,481,539 A 1/1996 Hershey et al.
- 5,559,512 A * 9/1996 Jasinski et al. 341/22
- 5,692,032 A 11/1997 Seppänen et al.
- 5,737,560 A 4/1998 Yohanan
- 5,751,708 A 5/1998 Eng et al.
- 5,761,280 A 6/1998 Noonan et al.
- 5,797,098 A 8/1998 Schroeder et al.
- 5,802,516 A 9/1998 Shwartz et al.

- 5,809,415 A 9/1998 Rossmann
- 5,848,356 A * 12/1998 Jambhekar et al. 455/403
- 5,917,905 A * 6/1999 Whipple et al. 379/356
- 5,987,336 A * 11/1999 Sudo et al. 455/566
- 6,125,287 A * 9/2000 Cushman et al. 455/566
- 6,144,863 A * 11/2000 Charron 455/566
- 6,332,024 B1 * 12/2001 Inoue et al. 379/43.06

FOREIGN PATENT DOCUMENTS

- EP 0 633 684 A2 1/1995
- EP 0 689 122 A1 12/1995
- EP 0 844 553 A1 5/1998
- JP 2001-331262 * 11/2001 379/433.06

OTHER PUBLICATIONS

UP.Browser™ User Handbook, Unwired Planet, Inc., Nov. 1977.

“HDTF Specification”, Version 1.1–Draft, Unwired Planet, Inc., Jul. 1997.

HDML 2.0 Language Reference, Version 2.0, Unwired Planet, Inc., Software Developer Kit, Jul. 1997.

“Wireless Application Protocol Architecture Specification” (WAP Architecture), Version 30, Apr. 1998.

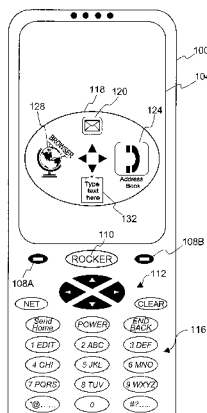
* cited by examiner

Primary Examiner—DeWayne Bost
Assistant Examiner—Erika A. Gary
(74) *Attorney, Agent, or Firm*—Beyer Weaver & Thomas, LLP

(57) **ABSTRACT**

A method and apparatus for facilitating access to a plurality of applications resident on a two-way mobile communication device. Existing keys or buttons of the two-way mobile communication device activate (or launch) resident applications. Additionally, the two-way mobile communication device presents the user with a displayed map on its display screen to specifically indicate which keys or buttons keys launch which resident applications.

18 Claims, 9 Drawing Sheets



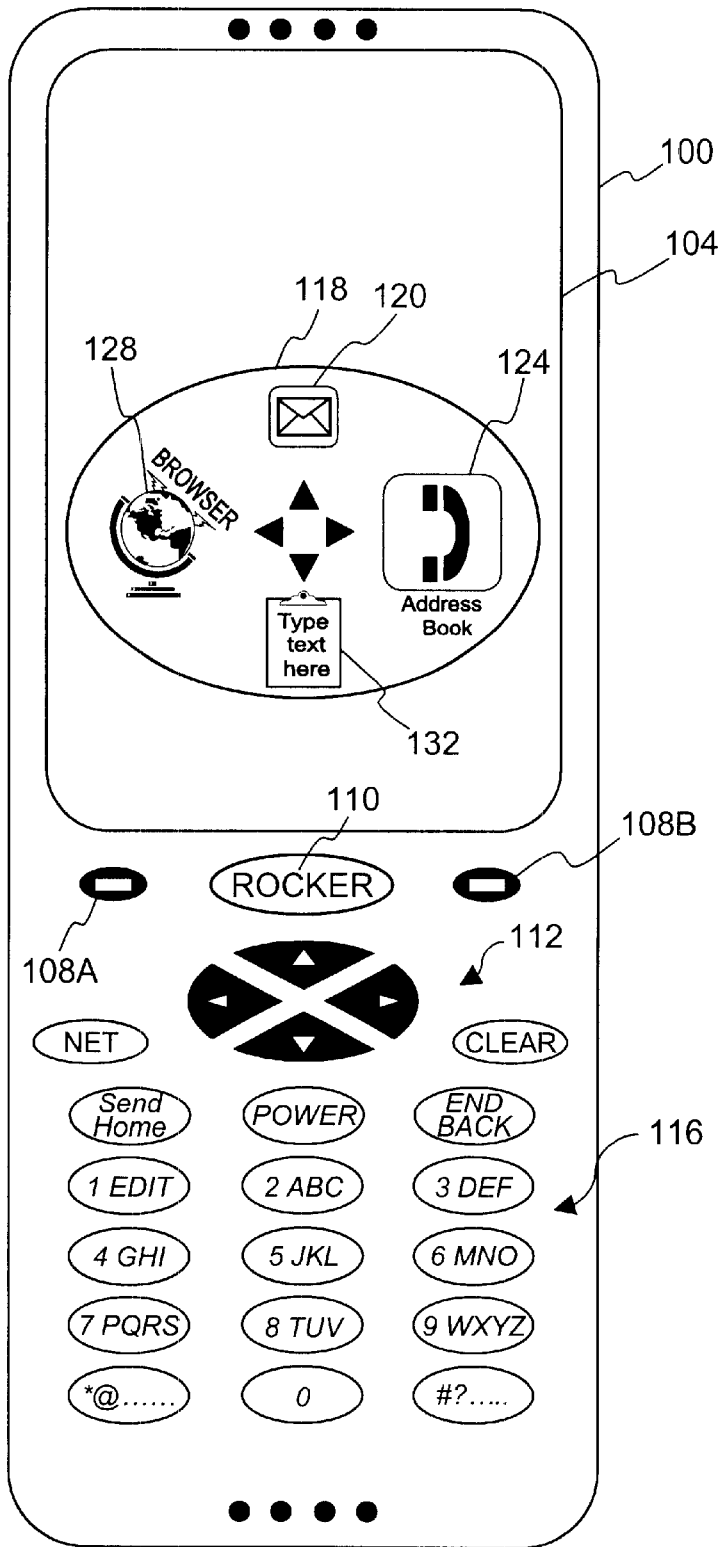


Figure 1

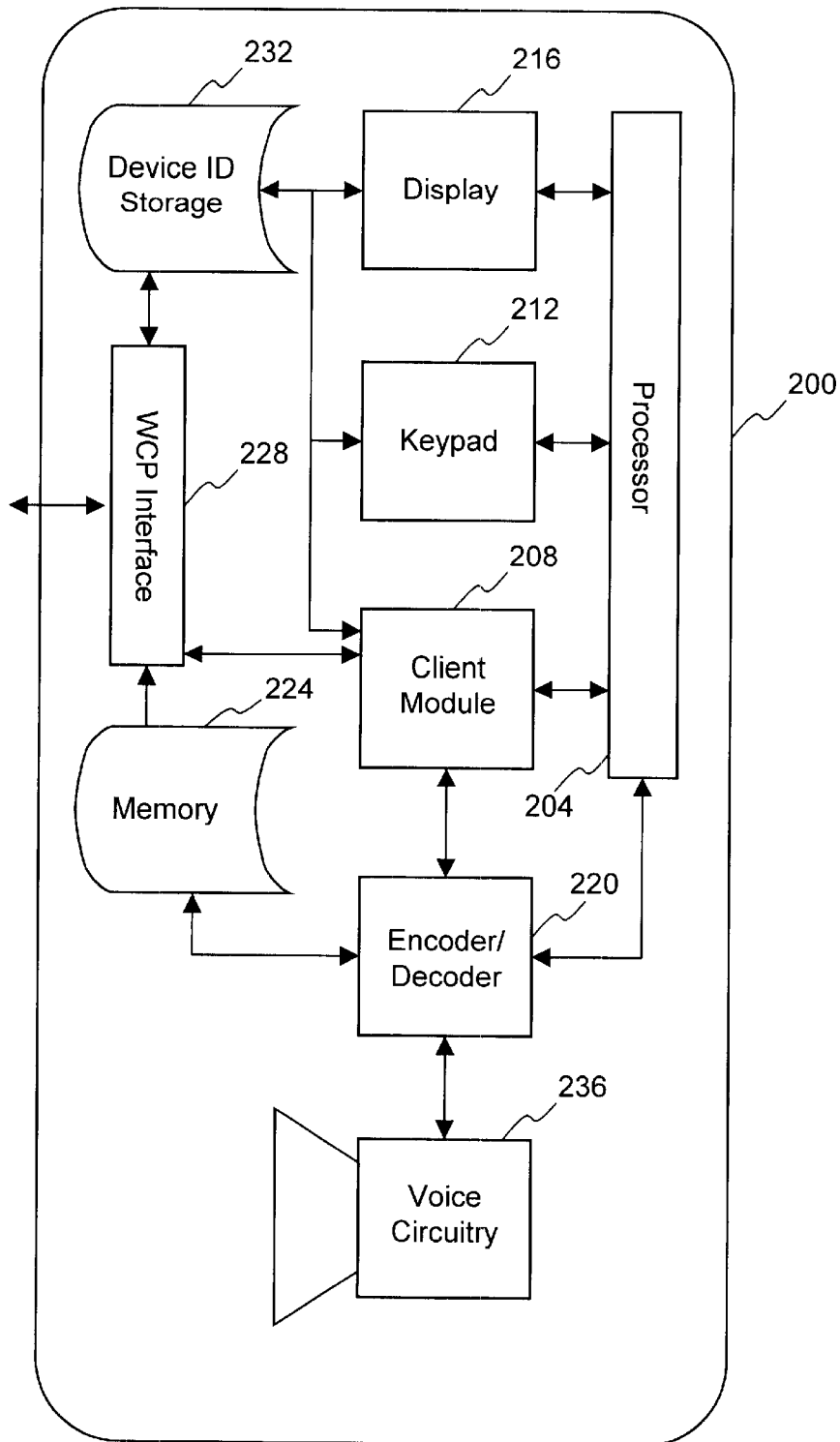


Figure 2

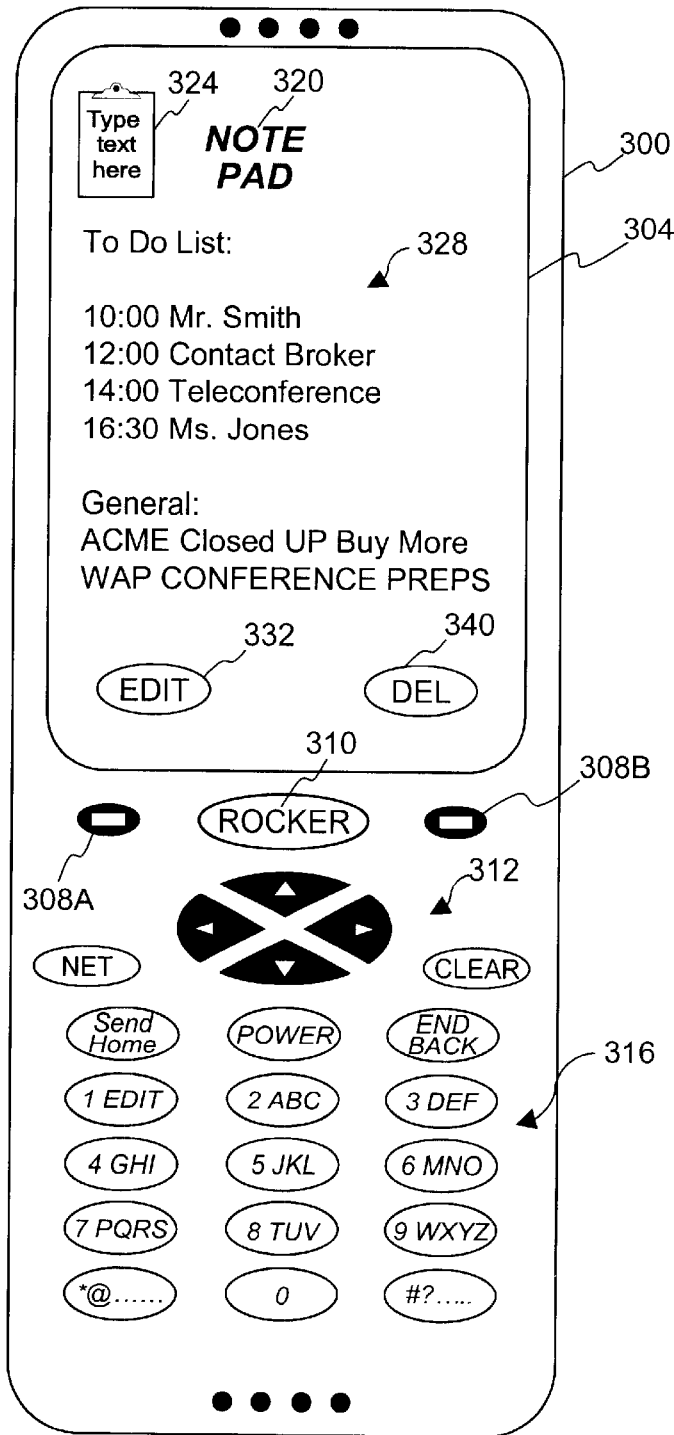


Figure 3A

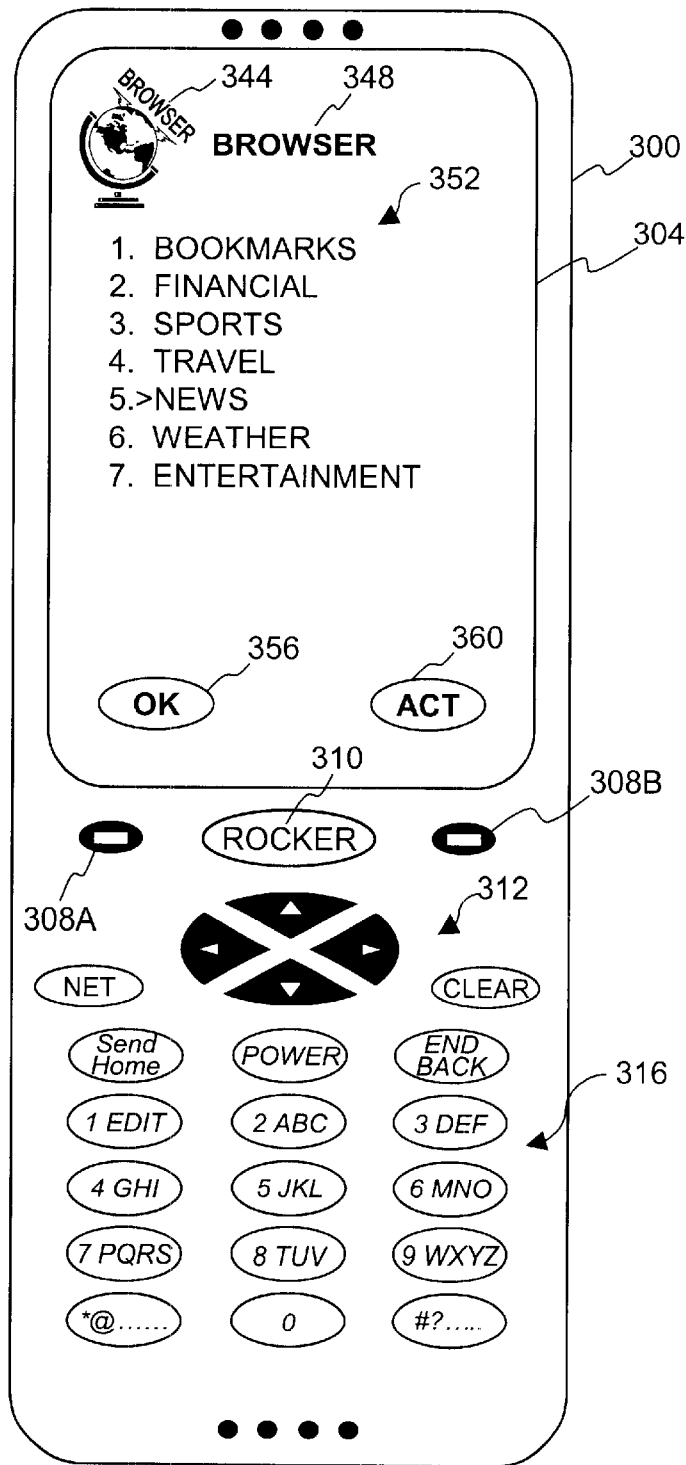


Figure 3B

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.