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(12) **United States Patent**
Smethers

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

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(*) 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.

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(65) **Prior Publication Data**

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(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 Shwarts 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

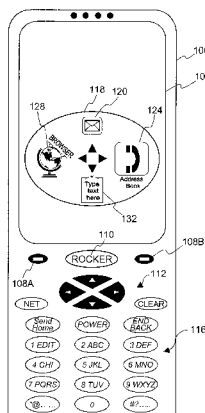
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(57) **ABSTRACT**

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



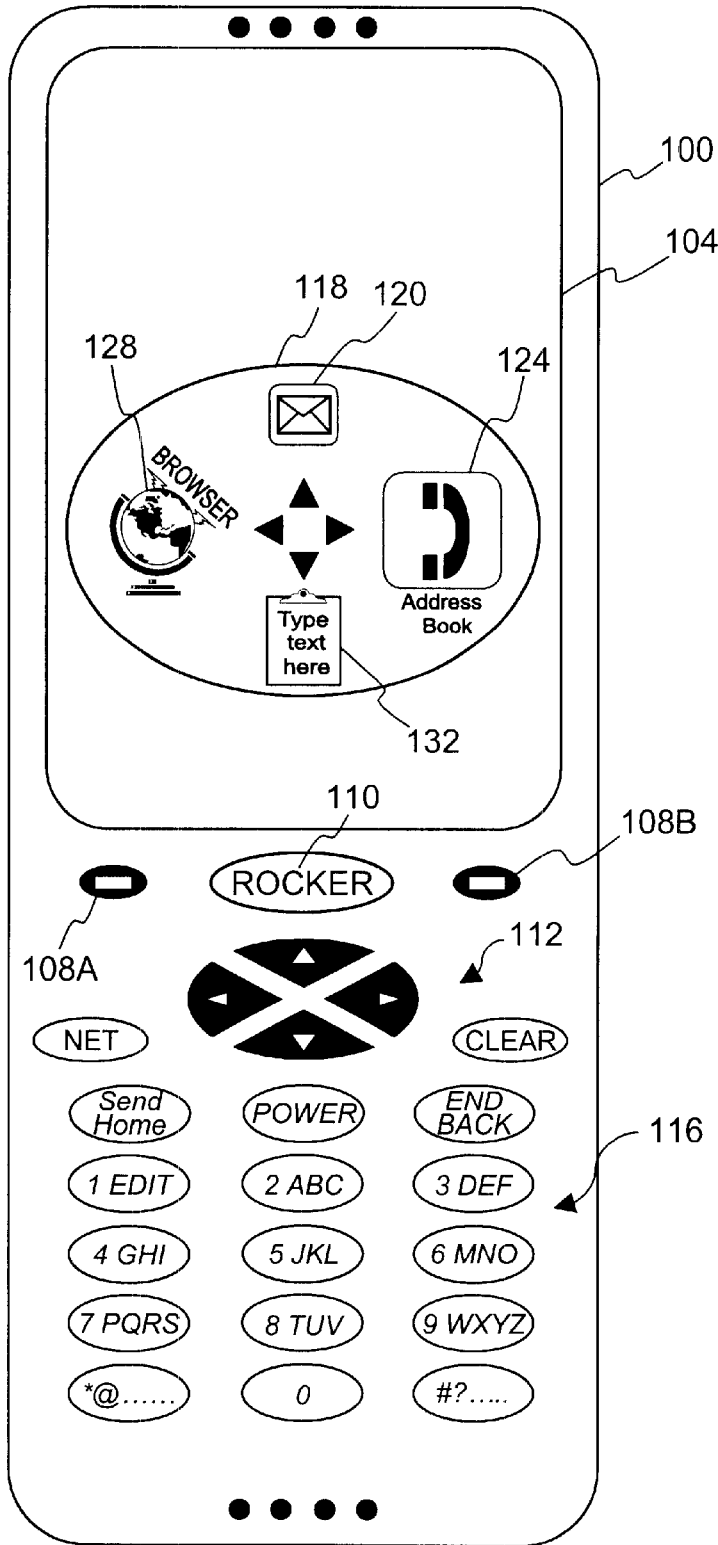


Figure 1

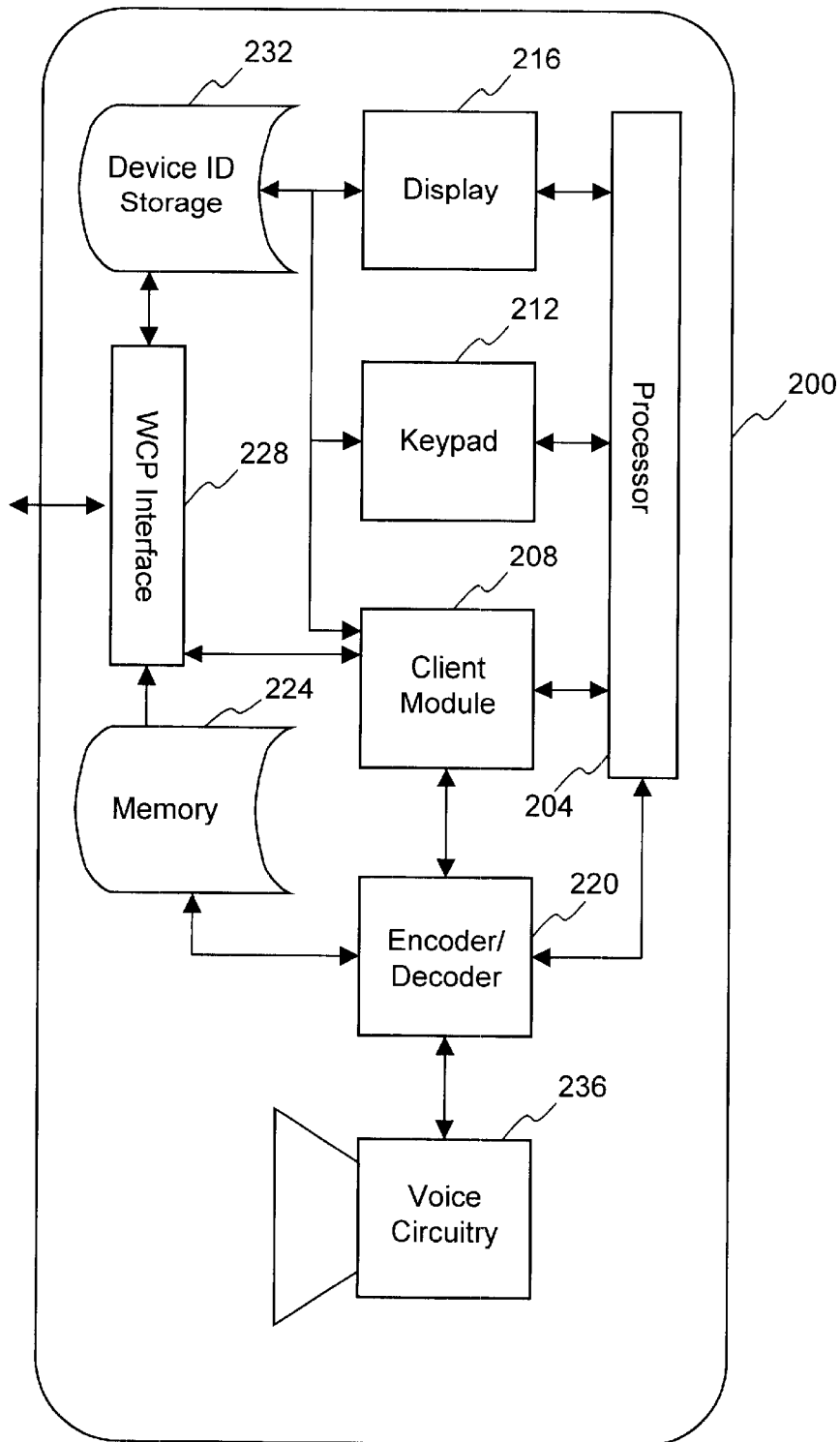


Figure 2

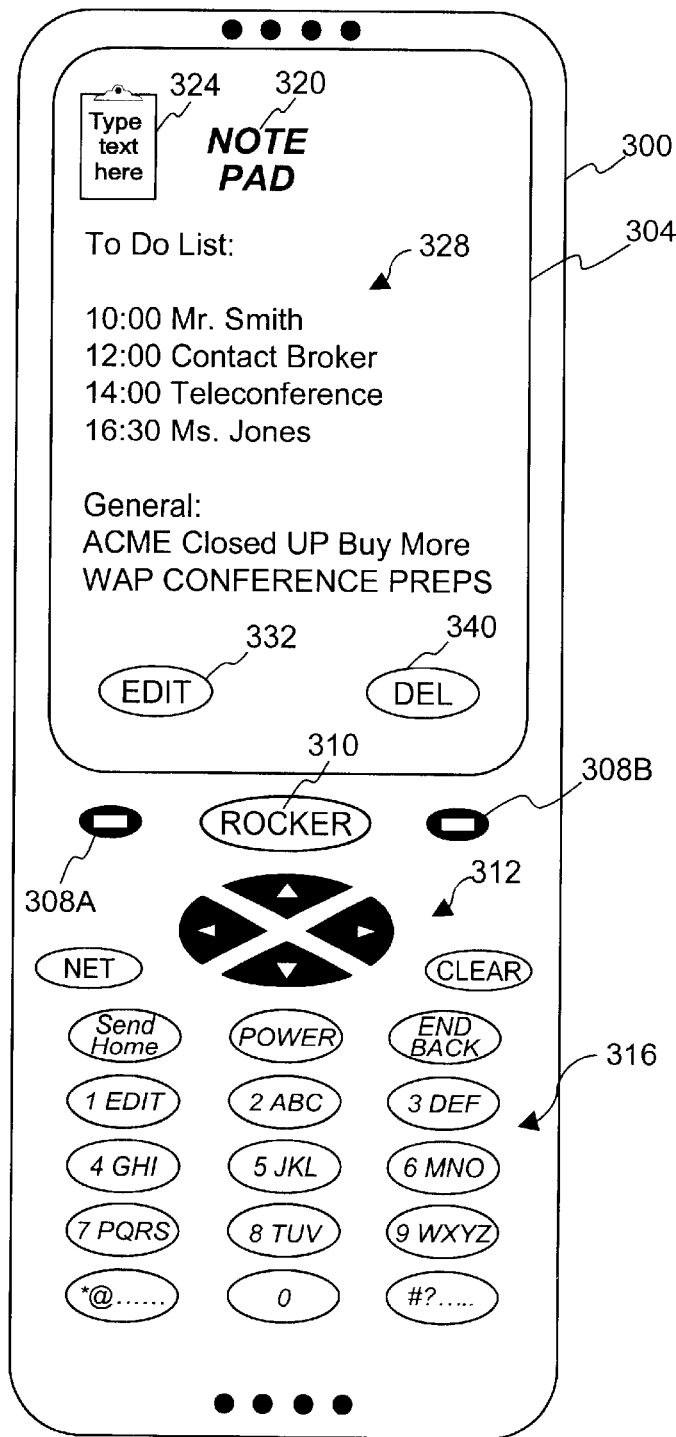


Figure 3A

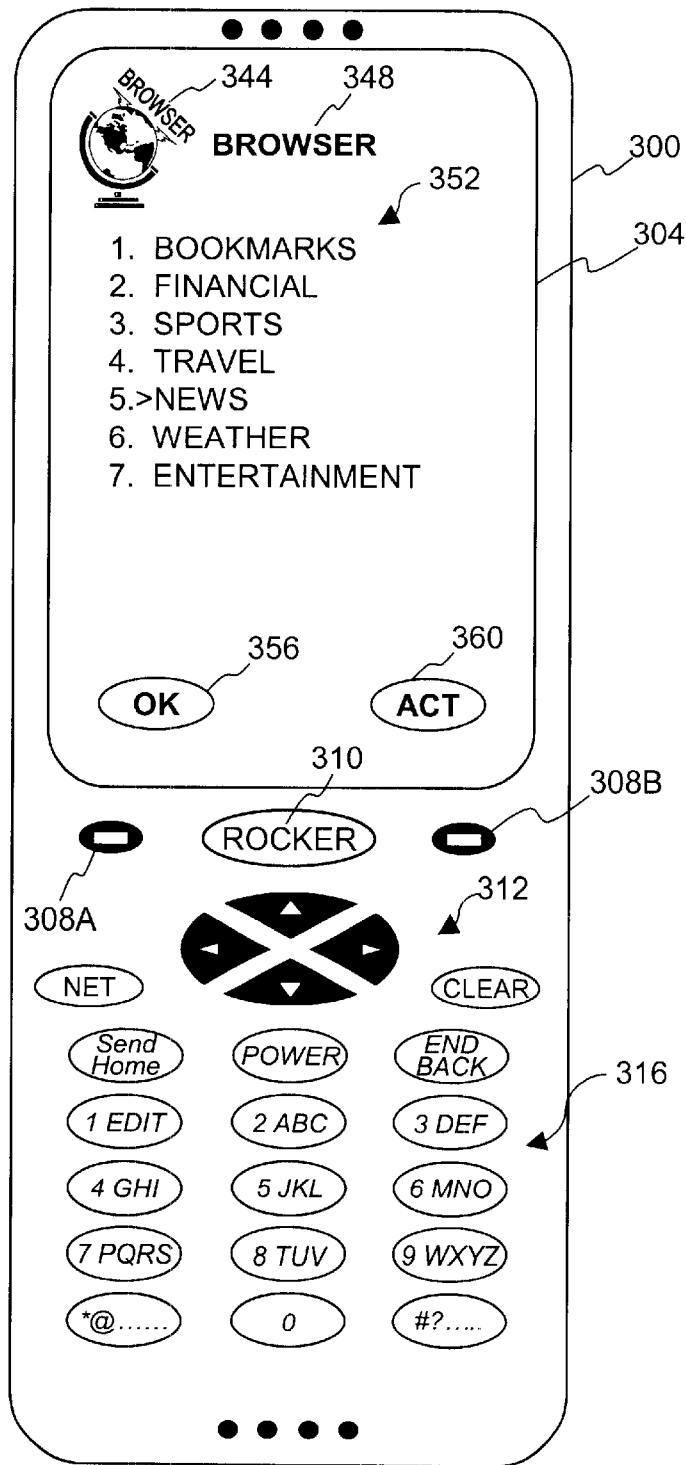


Figure 3B

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