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United States Patent [19]

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Nguyen

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[54] **PERSONAL COMMUNICATIONS TERMINAL HAVING SWITCHES WHICH INDEPENDENTLY ENERGIZE A MOBILE TELEPHONE AND A PERSONAL DIGITAL ASSISTANT**

Andy Reis . . . ; "EO's Personal Communicator Ushers in a New Era"; BYTE Magazine; Mar. 1993, p. 52.

ARDIS advertisement; ARDIS Company; 1994.

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[75] Inventor: **Nam D. Nguyen**, Quebec, Canada

Steven B. Weisman; "PDAs Today: Technology Trends and Market Dynamics"; BIS Strategic Decisions: Dec. 1992.

[73] Assignee: **Telefonaktiebolaget LM Ericsson (publ)**, Stockholm, Sweden

"Mitsubishi handheld combines cellular phone, electronic organizer"; PC Week Magazine; Nov. 7, 1994; p. 57.

[21] Appl. No.: **524,867**

[22] Filed: **Sep. 7, 1995**

[51] **Int. Cl.⁶** **H04M 11/00**

[52] **U.S. Cl.** **455/403; 455/556; 455/557; 455/553**

[58] **Field of Search** 379/58, 59, 96, 379/98, 100; 455/33.1, 403, 556, 557, 553, 566, 572, 575

Primary Examiner—William Cumming

Assistant Examiner—Keith Ferguson

Attorney, Agent, or Firm—Smith & Catlett, P.C.

[57] **ABSTRACT**

A personal communications terminal (PCT) in a case having a first half hingedly connected to a second half. The PCT operates in an open and a closed position and comprises a mobile telephone unit and a personal digital assistant (PDA) unit electronically connected to the mobile telephone unit. The PDA unit is a fully functional personal computer. The PDA unit comprises a memory for application software programs, a memory for data, a processor for performing operations with the data and the application programs, a modem for passing data between the PDA unit and the mobile telephone unit, and a mobile data interface for passing data between the PDA unit and the mobile telephone unit without utilizing the modem. When the PCT is in the open position, it forms two interior faces which include a PDA display screen on one face and a full alpha-numeric keyboard on the other face. The PCT may be operated as a standard wireless telephone, as a personal computer, or in an integrated mode for FAX, wireless data transfer, or sending and receiving short message service (SMS) messages.

[56] **References Cited**

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22 Claims, 4 Drawing Sheets

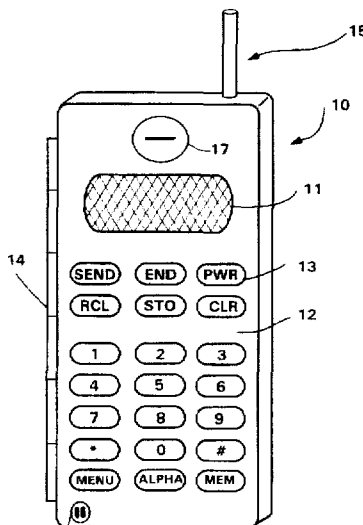


FIG. 1

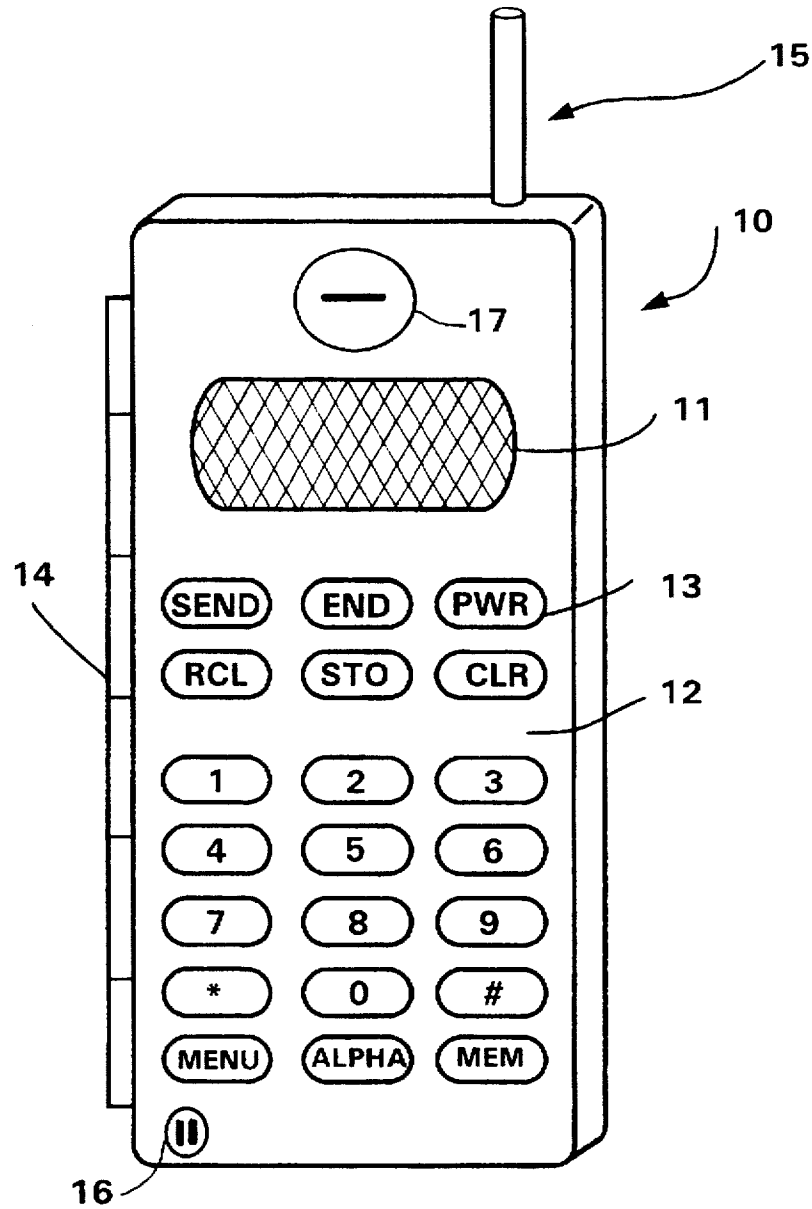
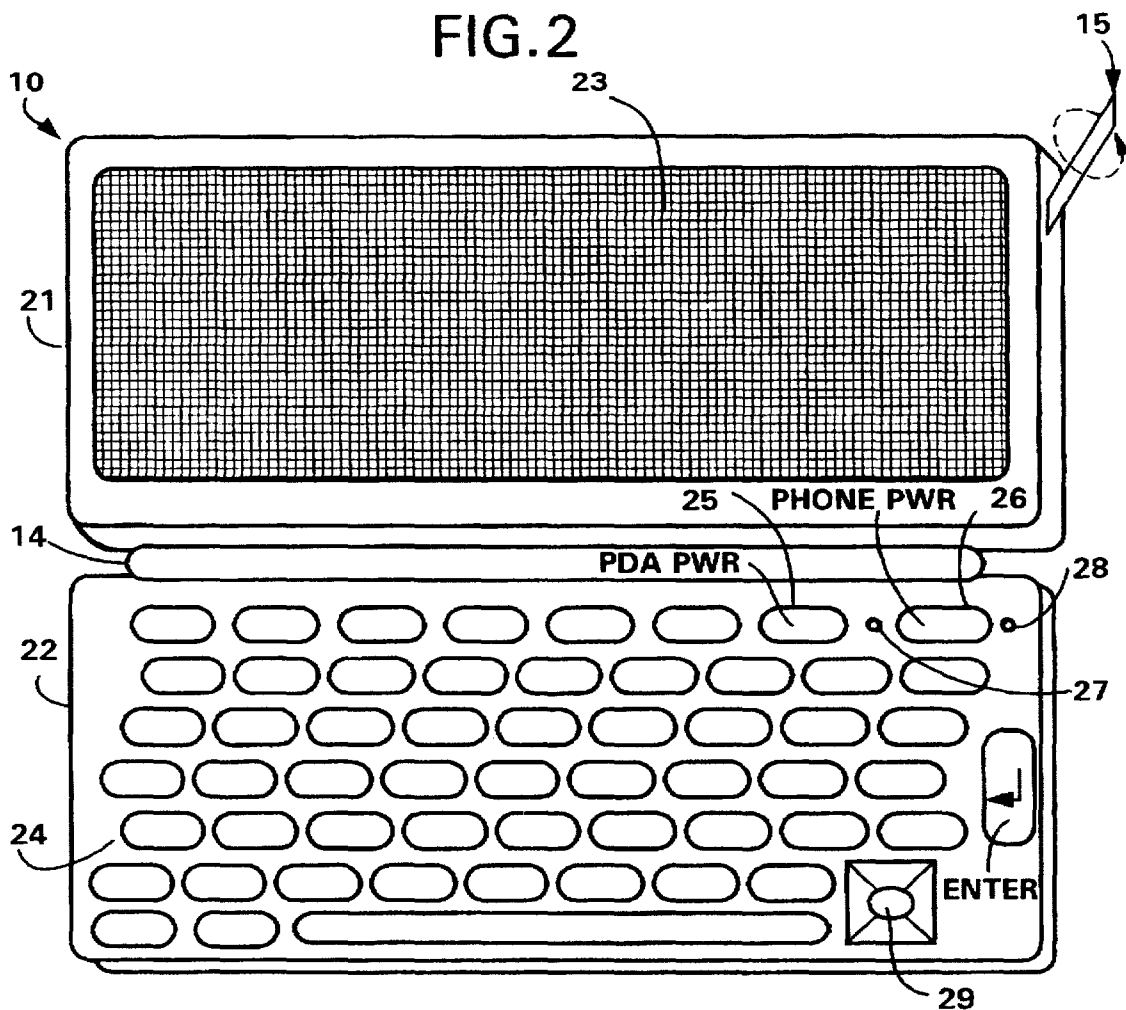


FIG. 2



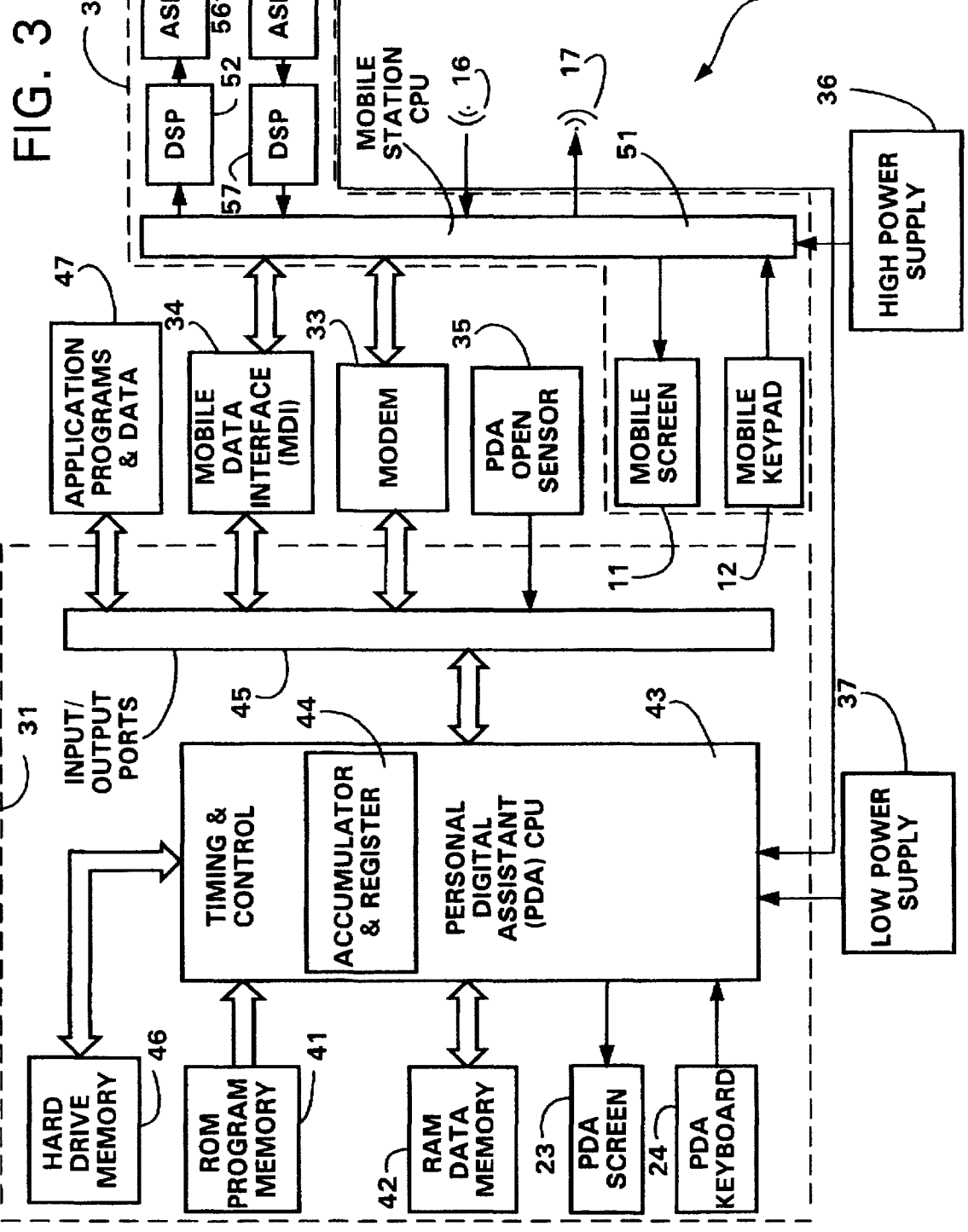
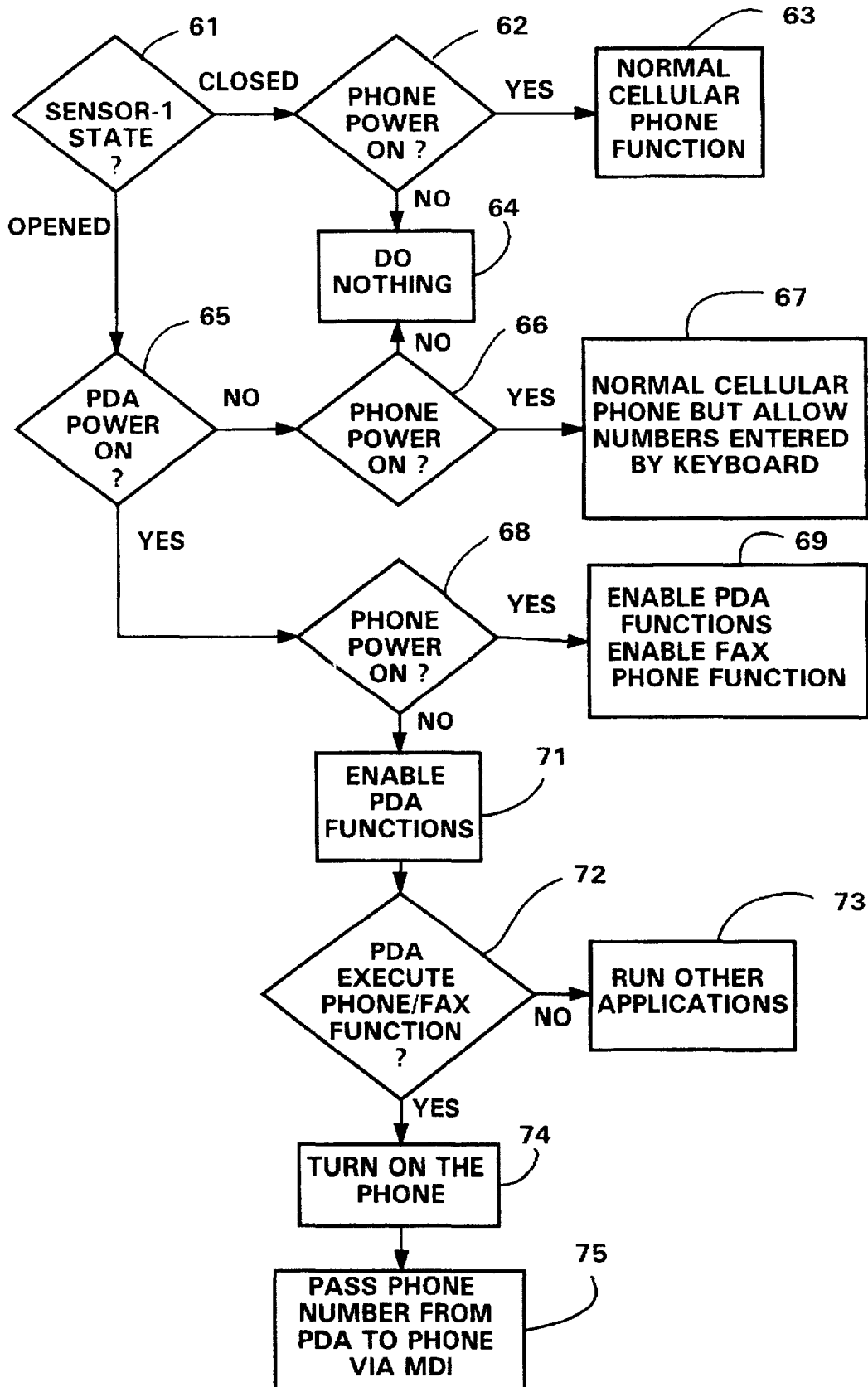


FIG. 3

FIG. 4



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