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(12) **United States Patent**
Warren

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(54) **INPUT-OUTPUT DEVICE WITH UNIVERSAL PHONE PORT**

(76) Inventor: **Peter Warren**, 5600 Lake Resort Ter., Apt. 208-H, Chattanooga, TN (US) 37415

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 316 days.

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(22) Filed: **Sep. 19, 2002**

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Related U.S. Application Data

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(51) **Int. Cl.**
H04B 1/38 (2006.01)
H04M 1/00 (2006.01)

(52) **U.S. Cl.** **455/557**; 455/556.1; 455/556.2; 379/93.05; 379/435; 343/702

(58) **Field of Classification Search** 455/450, 455/556.1, 556.2, 557; 379/93.05, 93.09, 379/435, 446; 343/702
See application file for complete search history.

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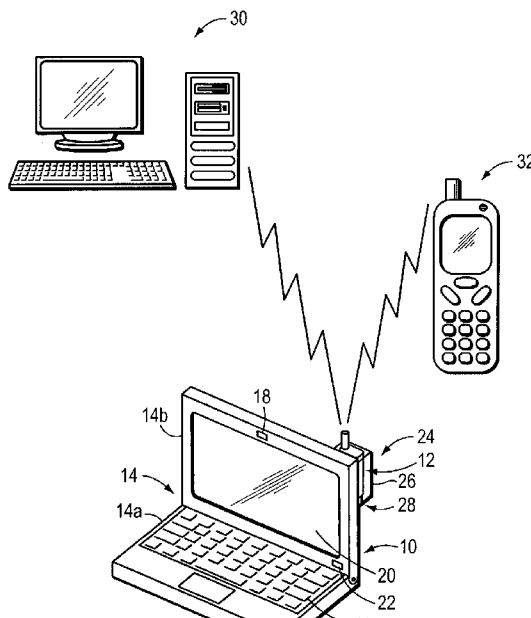
Primary Examiner—Stephen D’Agosta

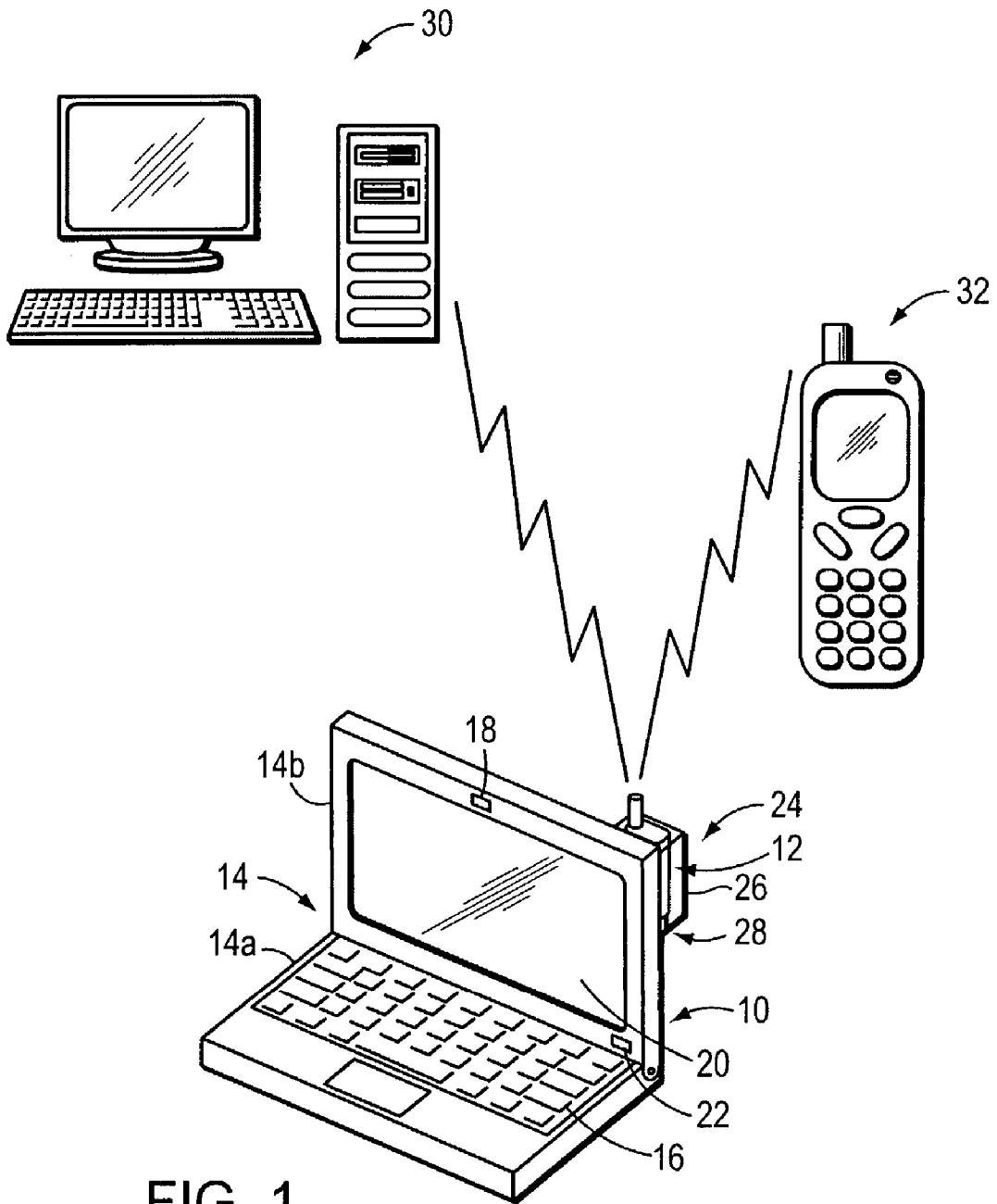
(74) *Attorney, Agent, or Firm*—Michael J. Mehrman; Mehrman Law Office

(57) **ABSTRACT**

A keyboard and a microphone for inputting information, a display screen and a speaker for viewing or hearing information, and a processor, all mounted to or within a housing in the form of a laptop computer or hand-held computer. A phone interface has a slot, channel, or other support member for holding the portable phone, with a phone port electrically connected to the processor. Alternative embodiments include a modem that is electrically connected to the processor and the phone port, and an adapter with a port that mates with the phone port and a port that mates with a selected phone. The phone wirelessly transmits data entered into the input components and transferred to the phone via the phone port, and wirelessly receives data to be transferred to the output components via the phone port for visual or audible output.

22 Claims, 6 Drawing Sheets





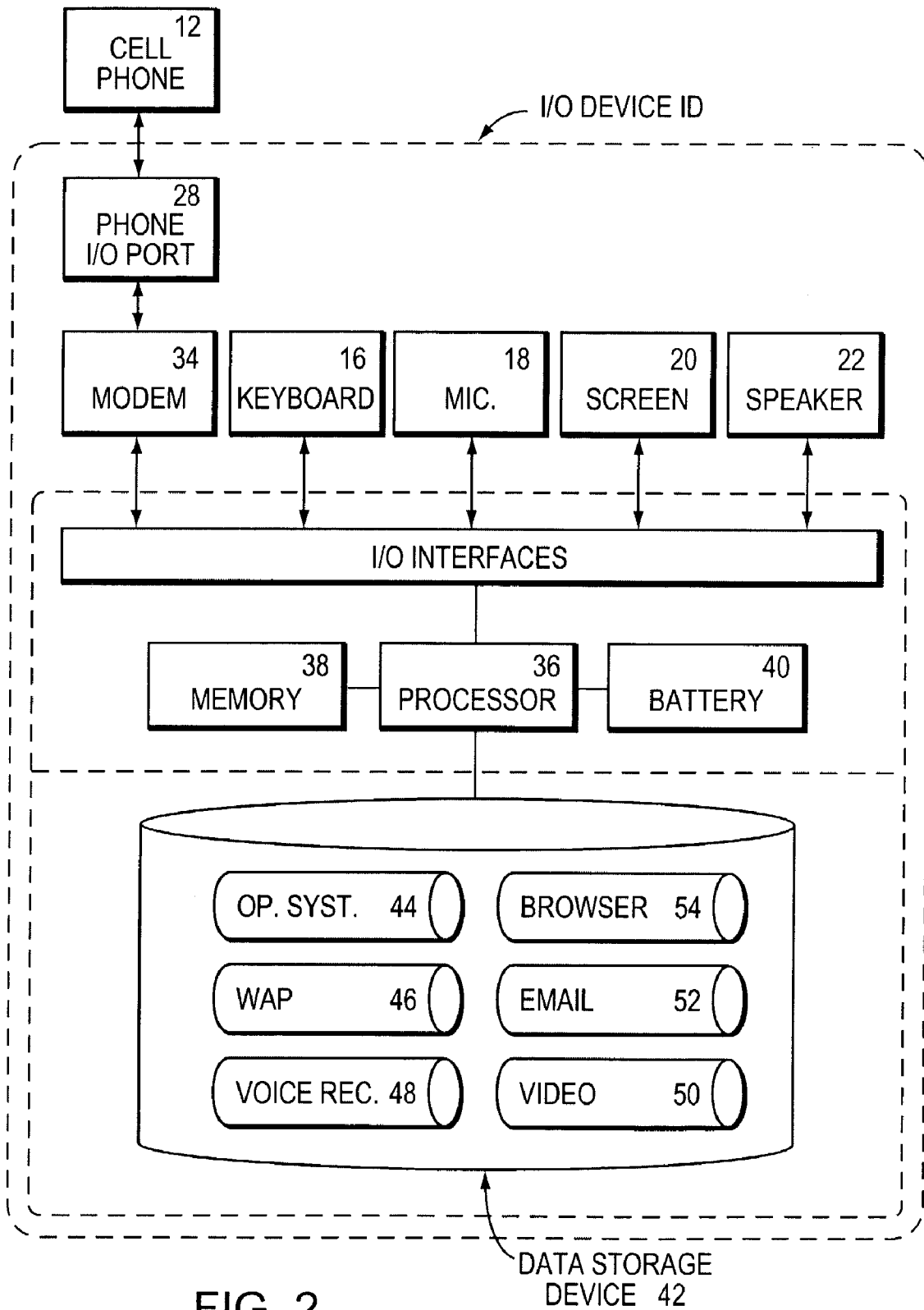


FIG. 2

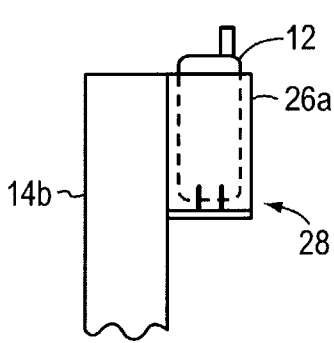


FIG. 3

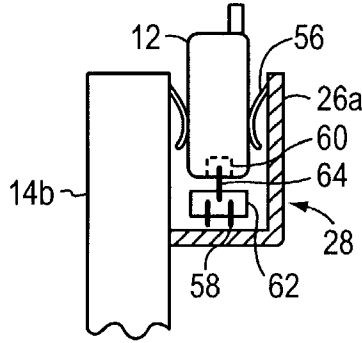


FIG. 4

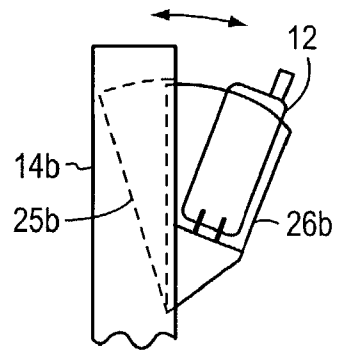


FIG. 5

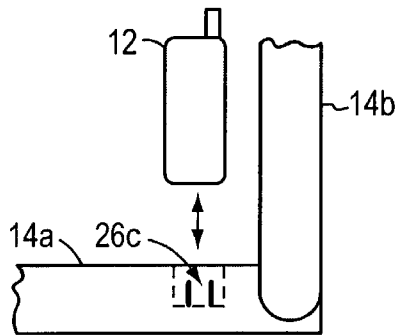


FIG. 6

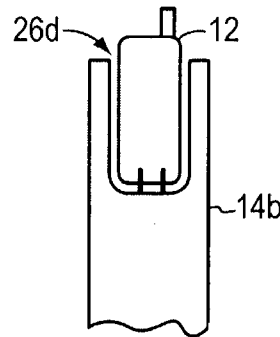


FIG. 7

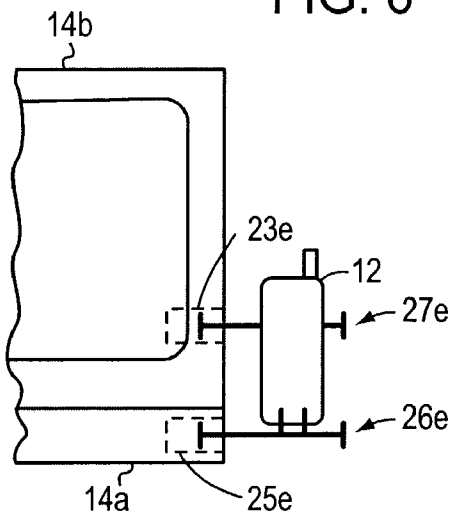


FIG. 8

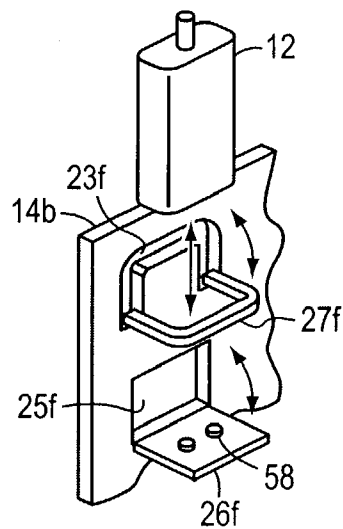


FIG. 9

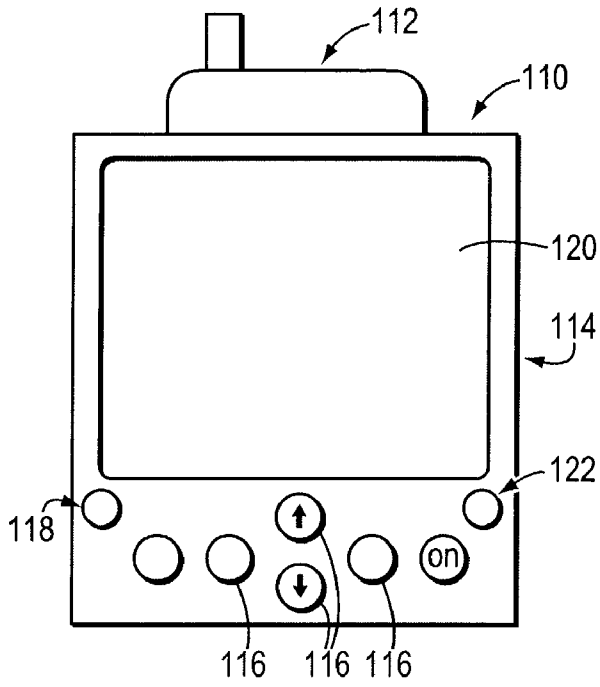


FIG. 10

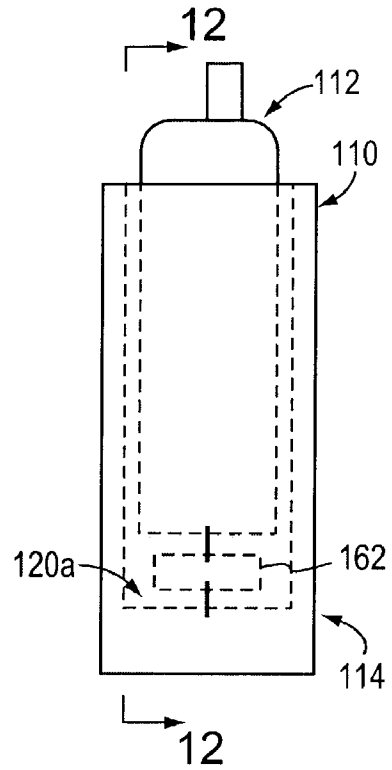


FIG. 11

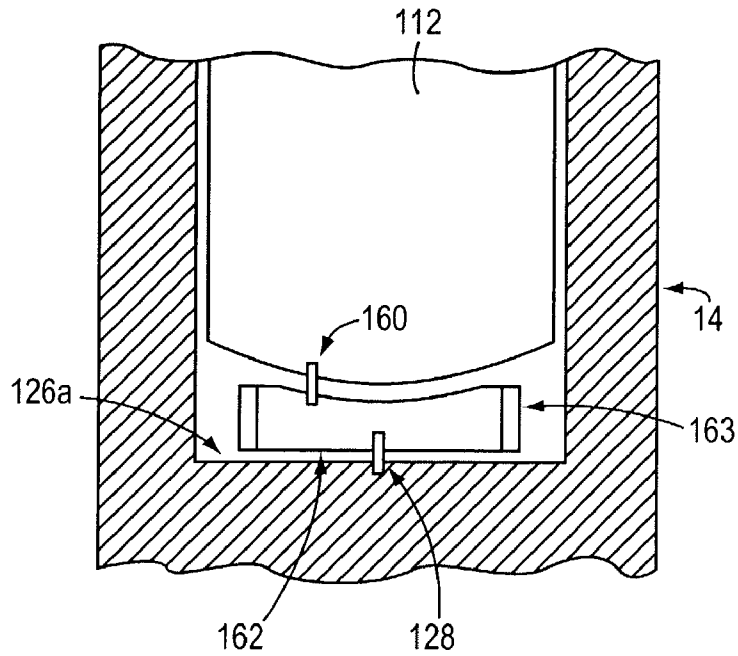


FIG. 12

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