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Wilska et al.

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(54) **DEVICE FOR PERSONAL COMMUNICATIONS, DATA COLLECTION AND DATA PROCESSING, AND A CIRCUIT CARD**

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(30) Foreign Application Priority Data

Jun. 12, 1995 (FI) 942334

(51) **Int. Cl.**⁷ **H04B 1/38**

(52) **U.S. Cl.** **455/550; 455/556; 455/557; 455/558; 348/14.02; 348/231; 348/552**

(58) **Field of Search** 455/90, 403, 550, 455/556, 557, 558, 566, 575; 348/14, 231, 552, 14.01, 14.02, 14.13, 14.14; 395/800.14

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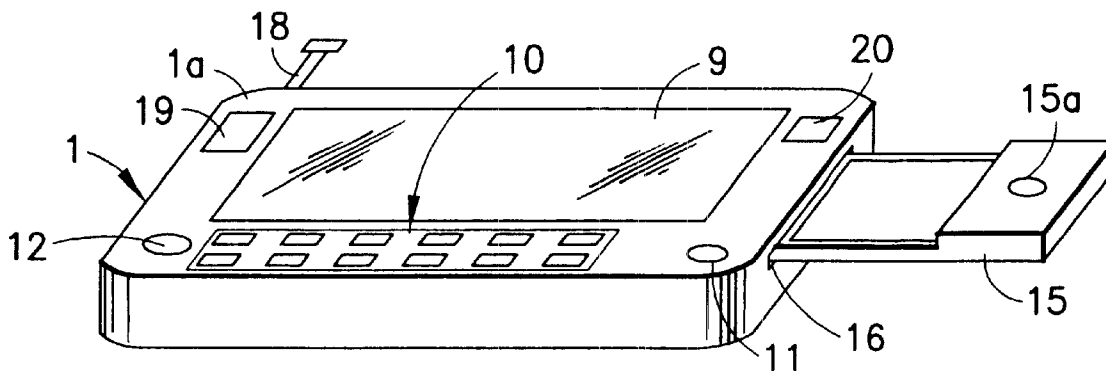
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(57) ABSTRACT

The object of the invention is a device for personal communication, data collection and data processing, which is a small-sized, portable and hand-held work station comprising a data processing unit (2); a display (9); a user interface (10, 11); a number of peripheral device interfaces (12, 17); at least one memory unit (13); a power source, preferably a battery (3); and an application software. According to the invention the device also comprises a camera unit (14). The camera unit (14) comprises a camera (14a), preferably a semiconductor camera, and optics (14b) connected thereto, which are placed in the housing (1) of the device. Alternatively, the camera unit (14) is fitted on a PCMCIA card (15) which can be connected to the PCMCIA card slot (16) of the device. An object of the invention is also a PCMCIA card (15) provided with a camera unit (14).

76 Claims, 3 Drawing Sheets



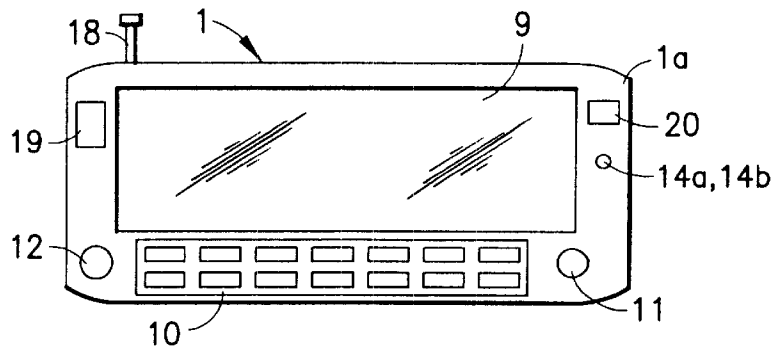


FIG. 1

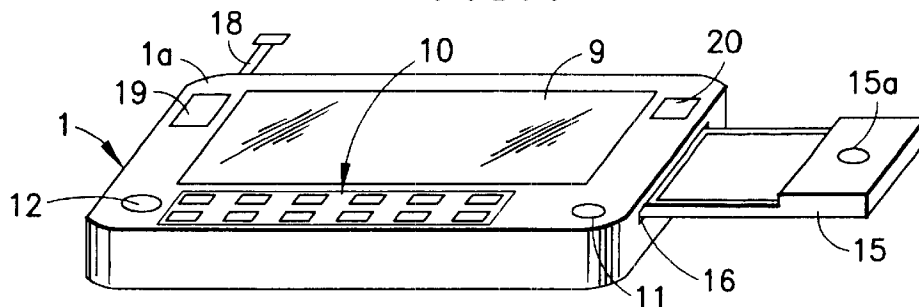


FIG. 2

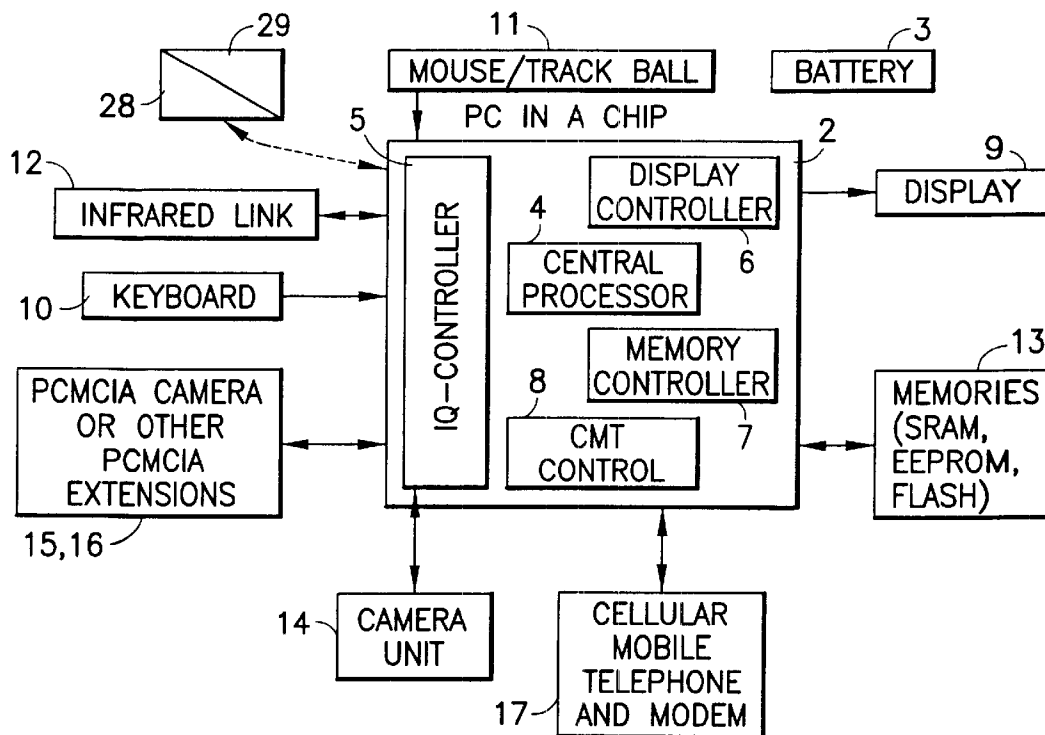


FIG. 3

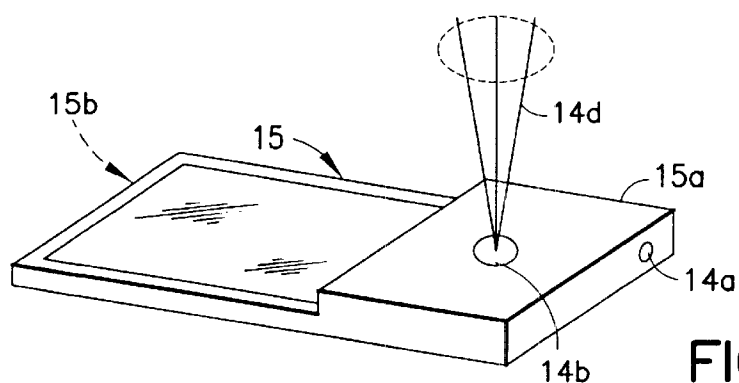


FIG. 4

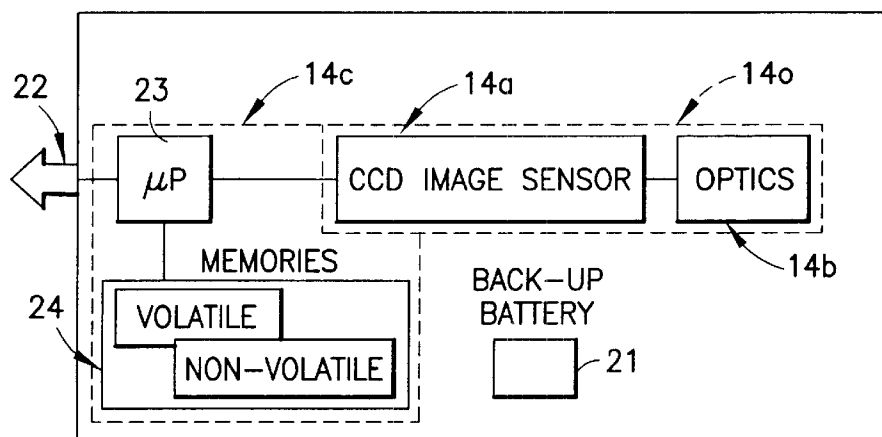


FIG. 5

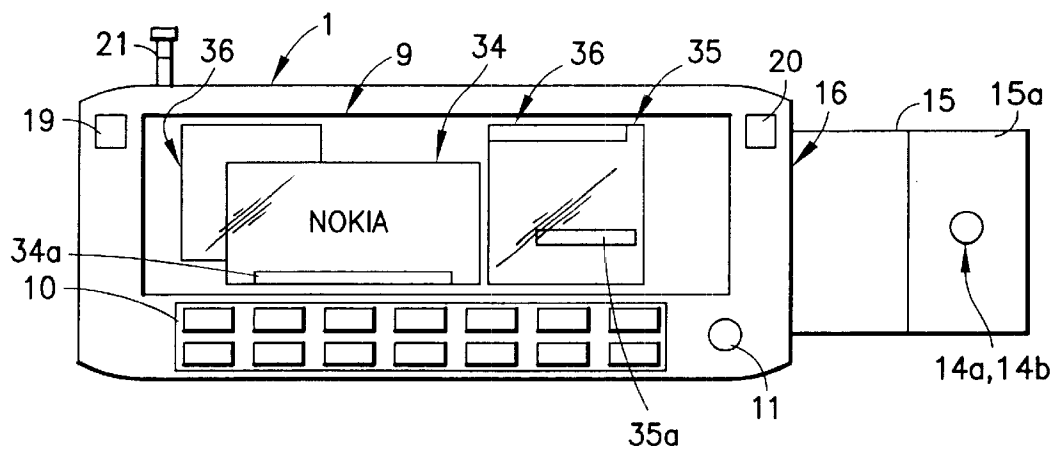


FIG. 6

FIG. 7

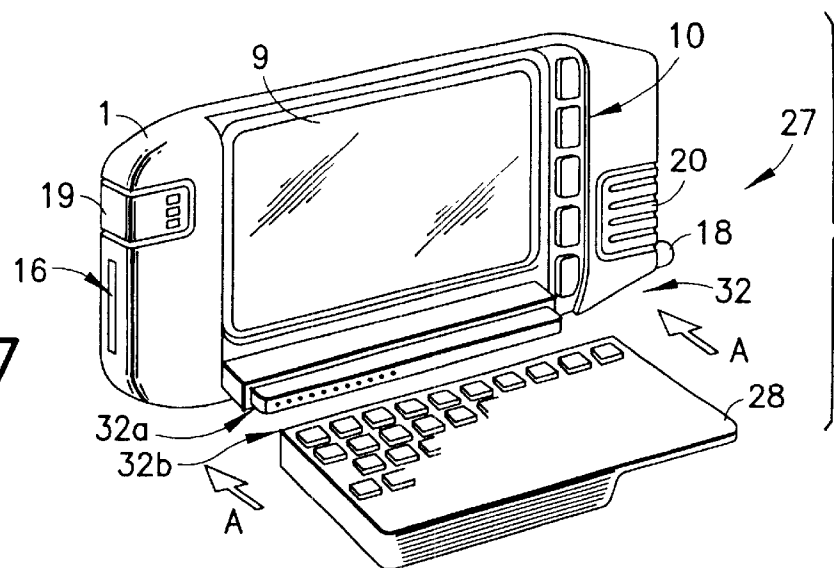


FIG. 8

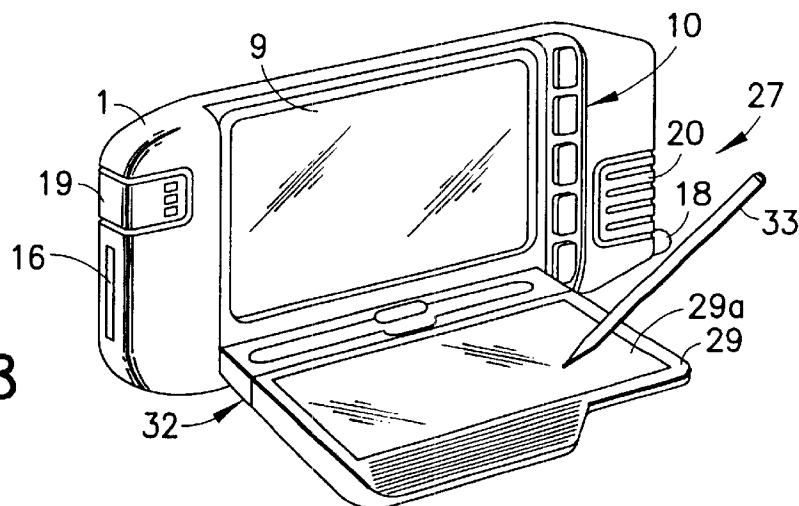
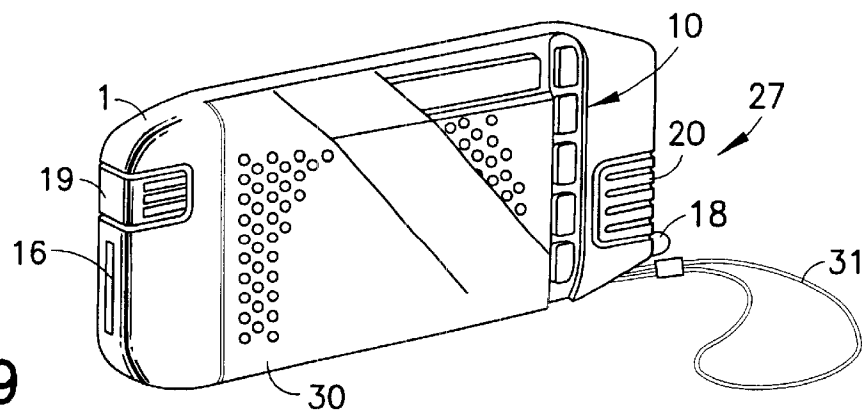


FIG. 9





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