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(71) Applicant(s)

**Nokia Mobile Phones Limited**

(Incorporated in Finland)

P.O. Box 86, SF-24101 Salo, Finland

(72) Inventor(s)

**Kari-Pekka Wilska**

**Reijo Paajanen**

**Mikko Terho**

**Jari Hamalainen**

(74) Agent and/or Address for Service

**J M Potter**

**Nokia Mobile Phones, Patent Department,  
St Georges Court, St Georges Road, 9 High Street,  
CAMBERLEY, Surrey, GU15 3QZ, United Kingdom**

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**G4A ADT AKS**

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(56) Documents Cited

**EP 0526802 A2**

(58) Field of Search

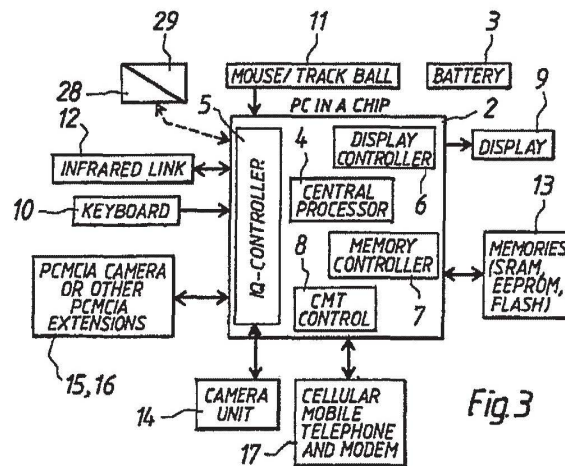
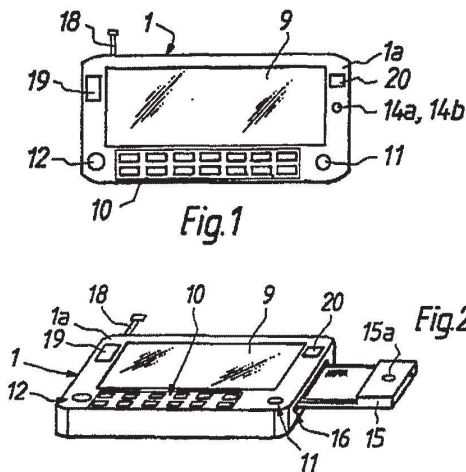
UK CL (Edition N ) **G4A ADT AKS, H4K KFH, H4L  
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INT CL<sup>6</sup> **G06F, H04M, H04Q**

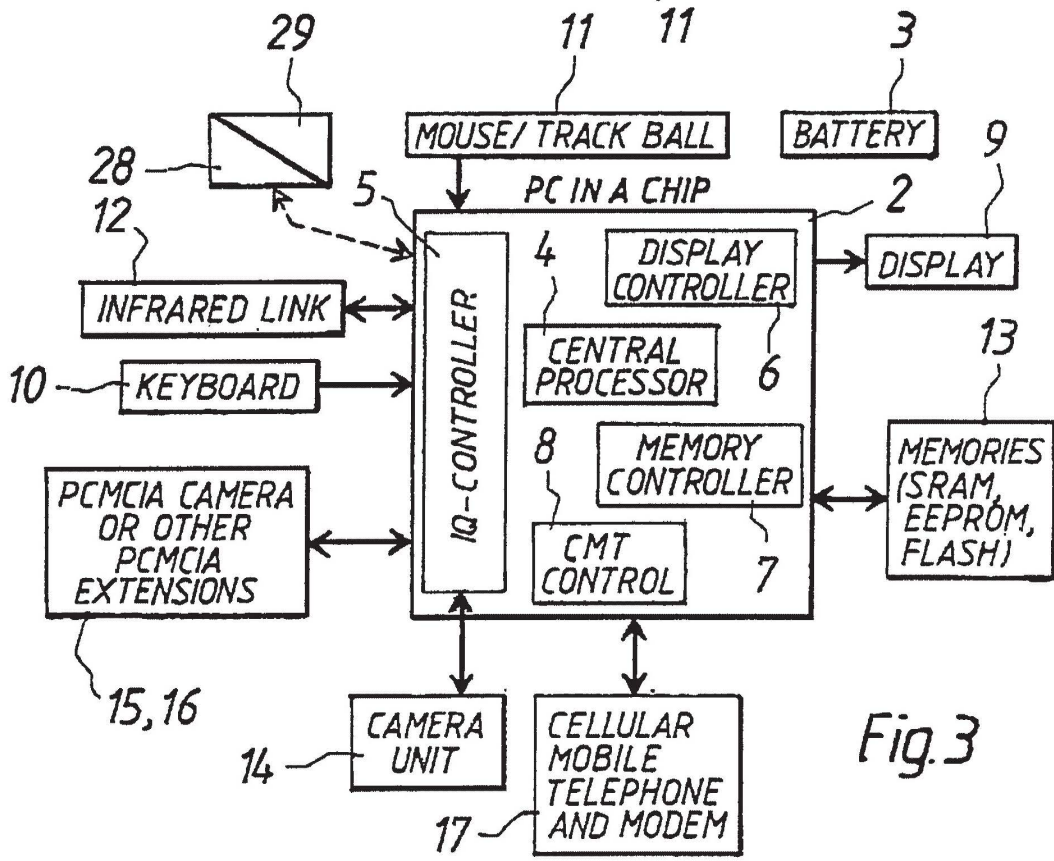
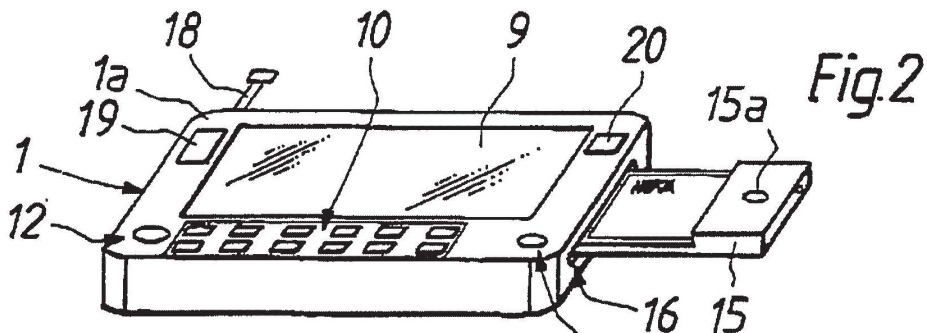
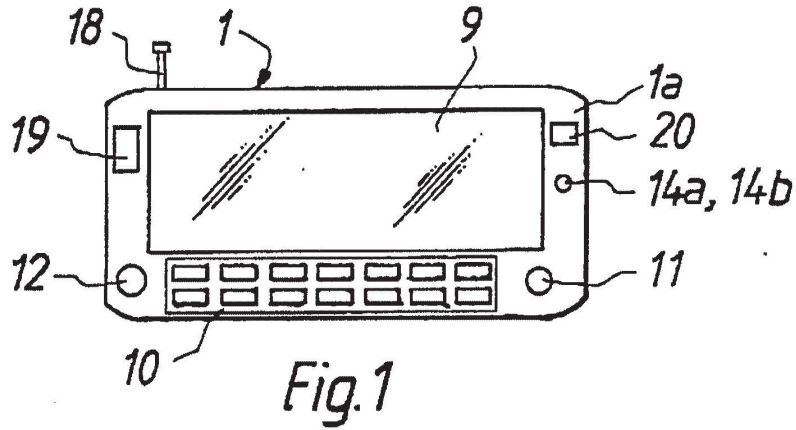
**ONLINE : WPI**

(54) **Device for personal communications, data collection and data processing and a circuit card**

(57) 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; 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.



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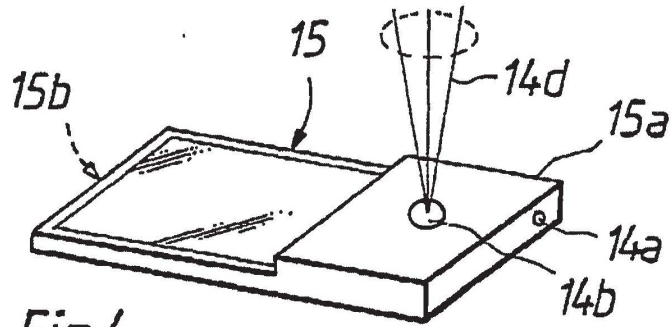


Fig. 4

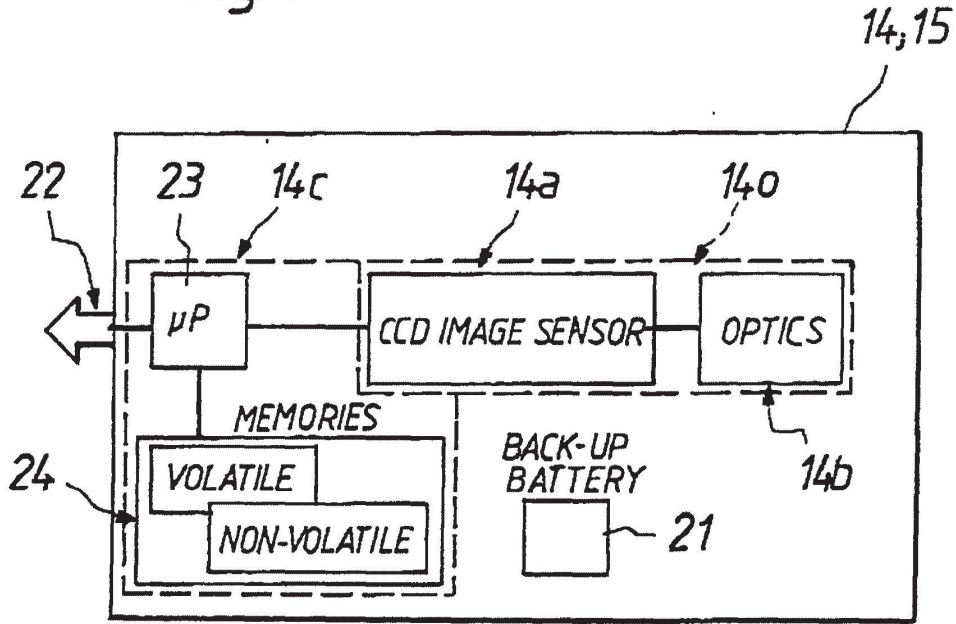


Fig. 5

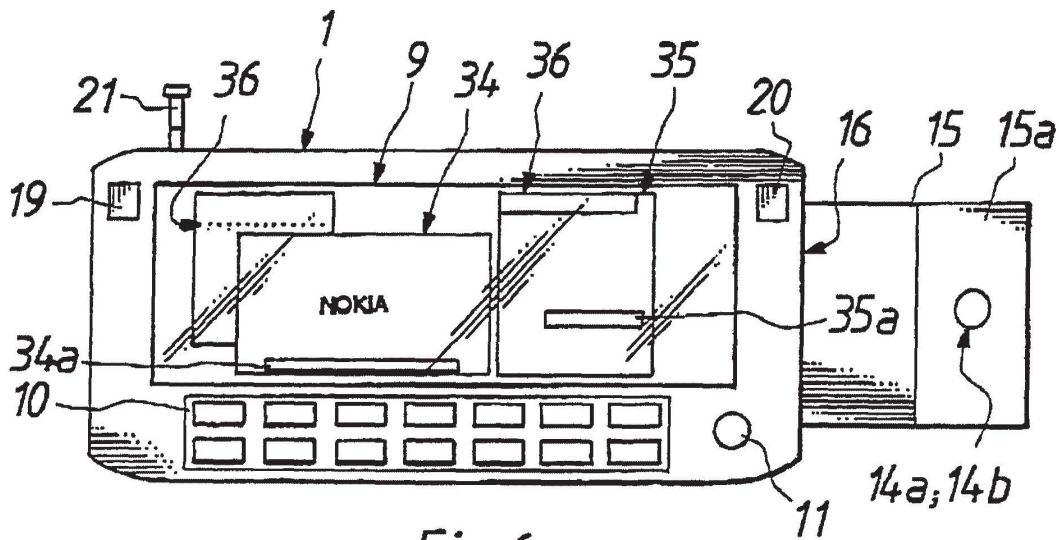
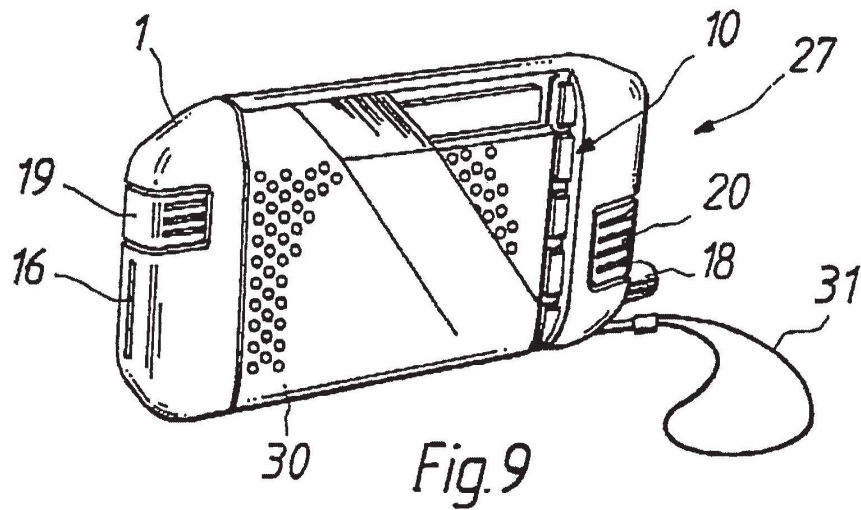
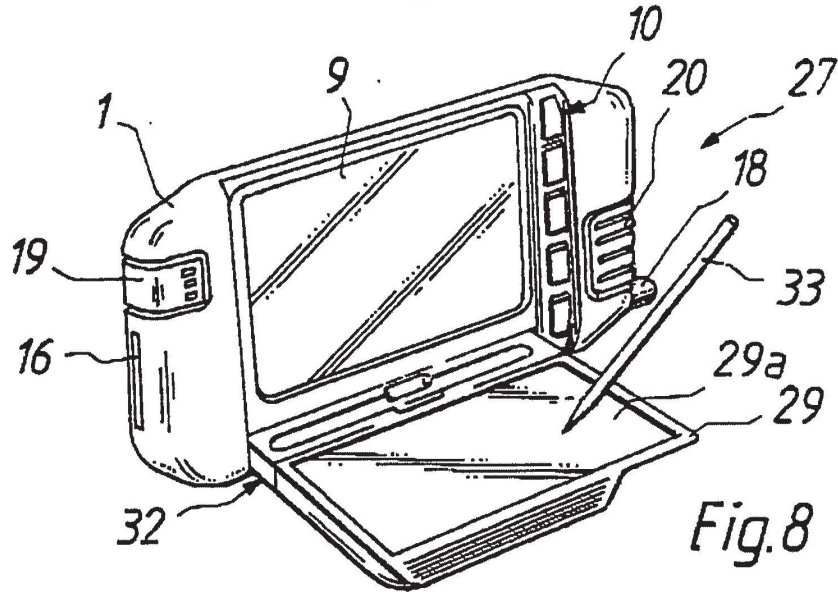
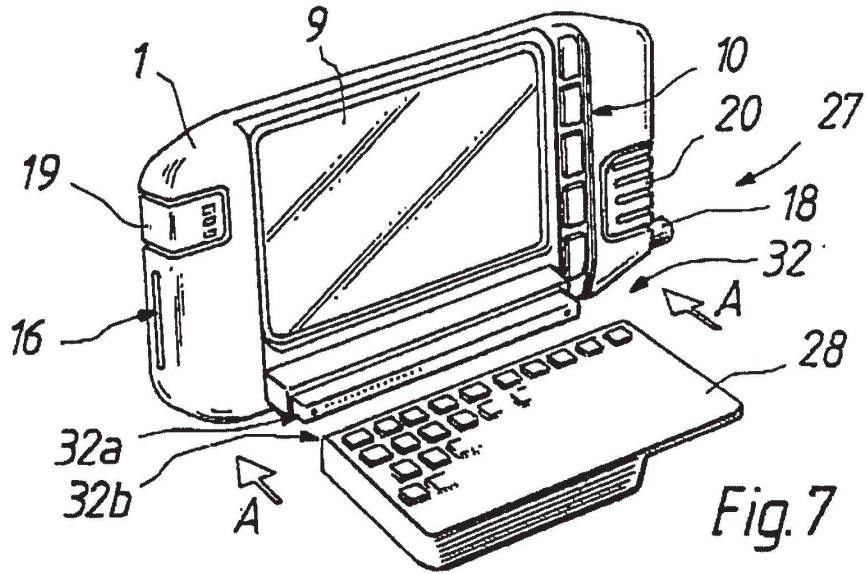


Fig. 6



1 DEVICE FOR PERSONAL COMMUNICATIONS, DATA COLLECTION AND DATA  
2 PROCESSING, AND A CIRCUIT CARD

3  
4 The object of the invention is a device according to the introductory part of  
5 Claim 1 for personal communication, data collection and data processing. The  
6 device consists of a small-sized housing comprising a data processing unit  
7 which contains a data processor with peripheral circuits and memory units, a  
8 display, a user interface, a number of peripheral device interfaces, a power  
9 source, preferably a battery, and application software.

10  
11 Another object of the invention is a circuit card according to the introduction of  
12 Claim 8 which can be fitted to the card slot arranged in connection with a  
13 device intended for personal communication, data collection and processing, in  
14 particular.

15  
16 Personal communication devices and/or mobile organisers, such as notebook  
17 computers and the like, known from before, are small, light-weight, portable  
18 and hand-held or laptop workstations. A number of accessories and application  
19 programs which offer service functions can be installed in such personal  
20 devices, when necessary. A such notebook computer is disclosed in  
21 international patent application WO-93/14458.

22  
23 The notebook computer can be equipped with an electronic scanner by means  
24 of which both text and figures can be read into the memory of the computer.  
25 This helps to eliminate the drawbacks of small keyboards, in particular. Data  
26 required in many connections, such as contact information included in business  
27 cards, can be read into the memory of the computer. However, electronic  
28 scanners comprise fine-mechanical parts which wear and may cause problems.  
29 Especially paper feeding arrangements fitted in small notebook computers are  
30 problematic.

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