

### US005552989A

## United States Patent [19]

### **Bertrand**

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[54]	PORTABLE DIGITAL MAP READER					
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[22]	PCT Filed	: (	Oct. 27, 1992			
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	§ 102(e) D	ate:	Apr. 28, 1994			
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	PCT Pub.	Date: 1	May 13, 1993			
[30]	Forei	gn Ap	plication Priority Data			
Oct	. 30, 1991	[FR]	France 91 13345			
[52]	U.S. Cl					
[58] <b>Field of Search</b>						
[56]		Re	ferences Cited			
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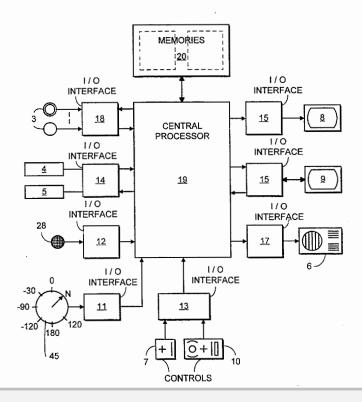
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Primary Examiner-Gary Chin Attorney, Agent, or Firm-Ladas & Parry

#### ABSTRACT [57]

The invention relates to an appliance for reading digital geographical maps, in particular topographical or road maps, recorded on magnetic or optical media, the appliance comprising in conventional manner a central processor unit (19), means (4, 5) for reading magnetic or optical media, at least one display screen (8, 9), control means (7, 10), and electrical power supply means. It includes a compass (45) adapted to measure the angle between the orientation of the appliance and magnetic north, and to send corresponding information to the central unit (19), said central unit responding to said information by issuing a corresponding order to the screen display process to cause the displayed image to be oriented as a function of said information. The appliance is designed to replace a conventional paper map, together with guidebooks, diaries, and directories.

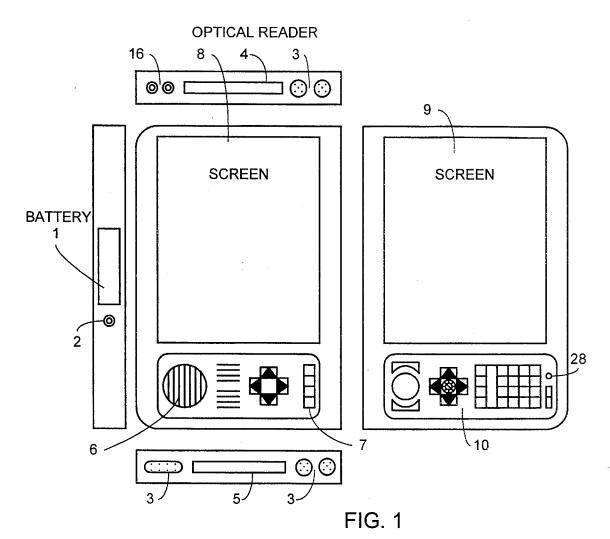
### 8 Claims, 7 Drawing Sheets





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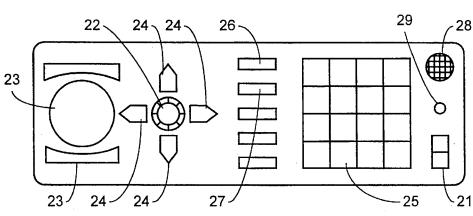


FIG. 2



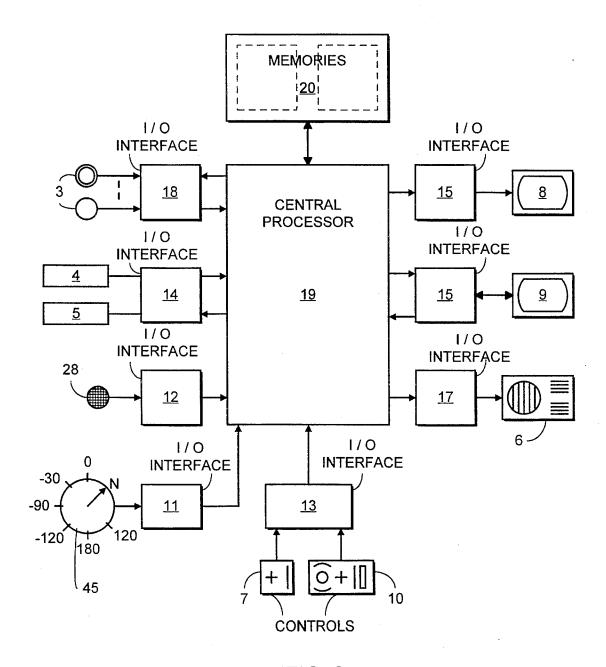


FIG. 3

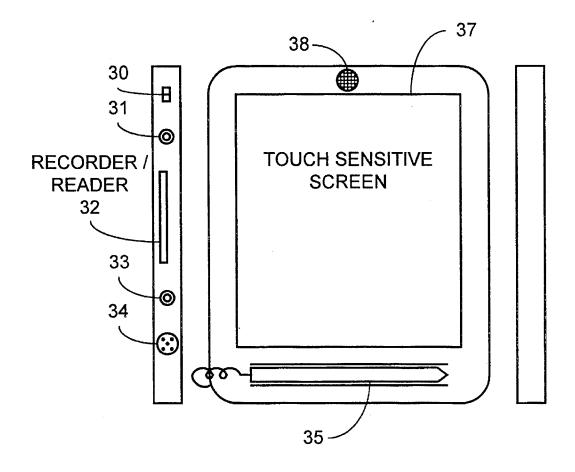


FIG. 4

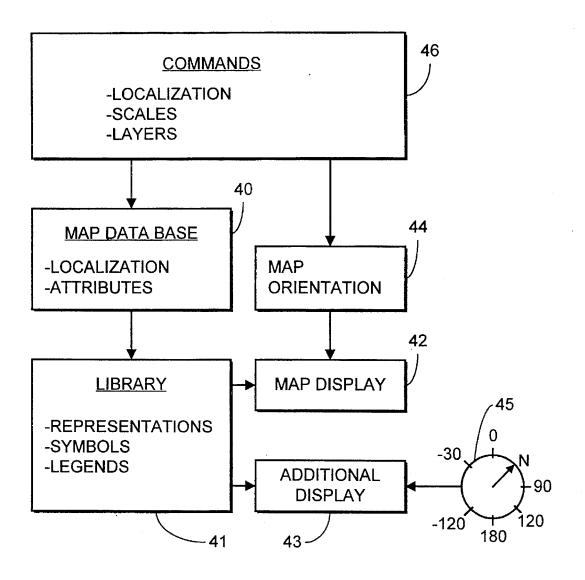


FIG. 5

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