## United States Patent [19]

### Beiswenger et al.

### [54] DIGITAL CLOCK

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- [21] Appl. No.: 98,464
- [22] Filed: Jul. 28, 1993
- [51] Int. Cl.<sup>6</sup> ...... G04C 17/00; G04C 19/00;

712, 756, 815.01, 765, 784

#### [56] References Cited

### **U.S. PATENT DOCUMENTS**

4,047,010	9/1977	Perotto et al 235/156
4,139,837	2/1979	Liljenwall et al 340/146.3 SY
4,322,833	3/1982	Husted 368/69
4,387,367	6/1983	Fisher 340/365 SP
4,538,924	9/1985	Nakata 368/74
4,785,432	11/1988	Havel 368/62
4,847,606	7/1989	Beiswenger 340/712
4,910,504	3/1990	Eriksson 340/712
4,958,911	9/1990	Beiswenger et al 350/331 R

### FOREIGN PATENT DOCUMENTS

55-107984 8/1980 Japan .

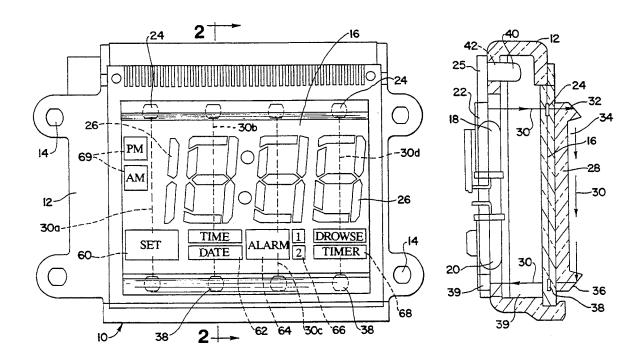
Primary Examiner-Vit W. Miska

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### [57] ABSTRACT

A digital clock comprises an electronic timekeeping circuit, plus electronic digital display means connected to the time keeping circuit to display time as controlled by the circuit. Electronic control means are provided to permit changing of individual numerals displayed in a plurality of locations by manually pointing at the individual numerals. The electronic control means may comprise transparent touch-sensitive detection means positioned in front of the digital display means to permit manual changing of the individual numerals. Alternatively, the electronic control means may comprise one or more light beam emitters and one or more light beam sensors, plus an optical means for passing individual time-gated light beams from the emitter(s) to the sensor(s) in front of the numerals in a position to permit selective occlusion of the individual light beams by manual pointing.

### 24 Claims, 5 Drawing Sheets





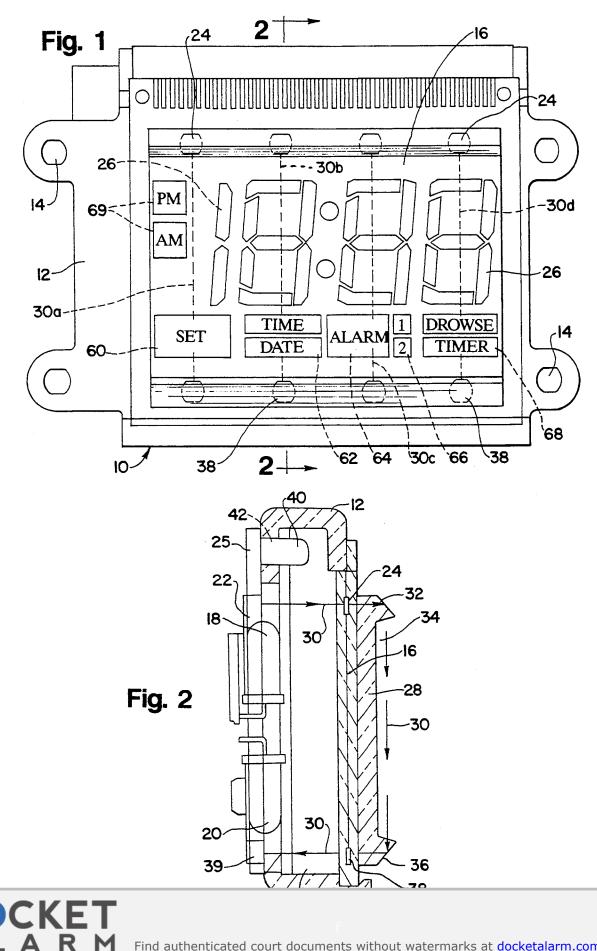
US005381388A

[11] Patent Number: 5,381,388

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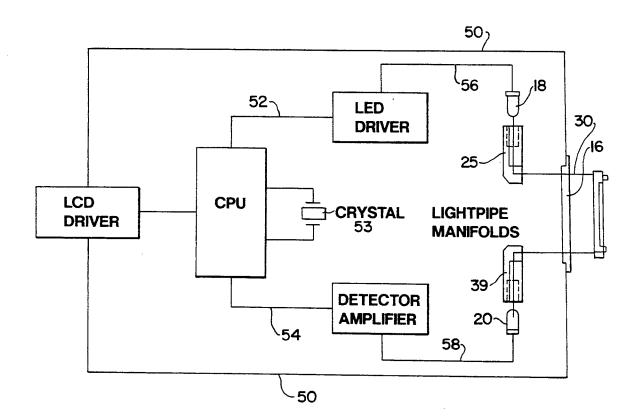
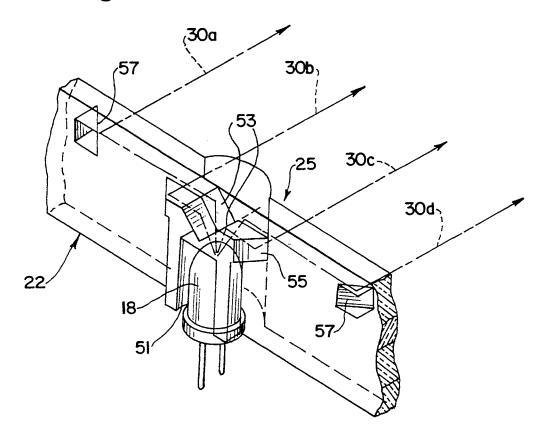
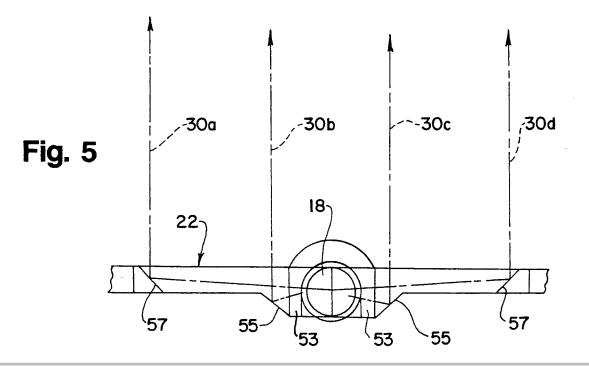


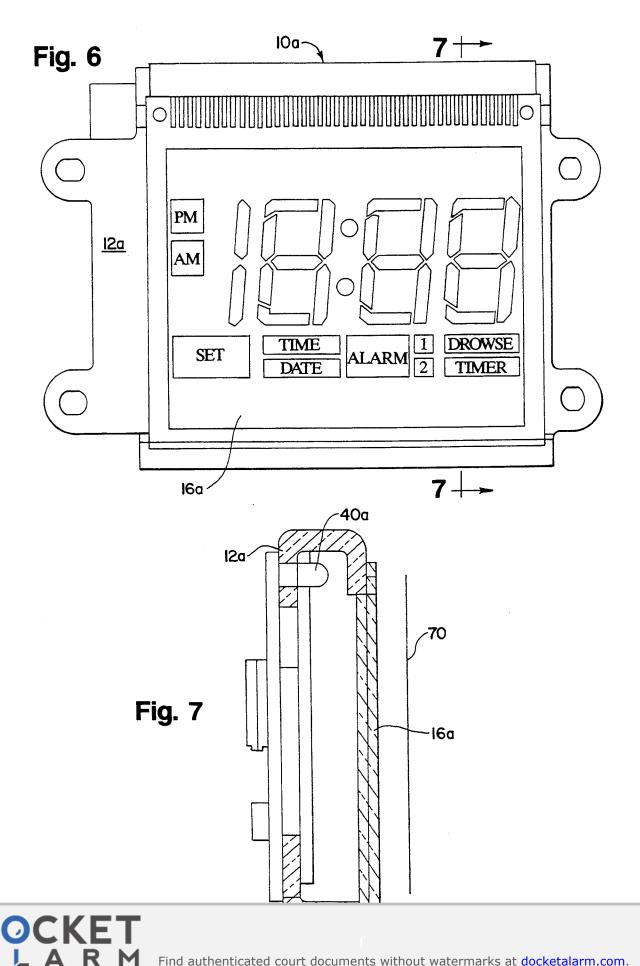
Fig. 4





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