

## US005573013A

## United States Patent [19]

### Conlan

[\*] Notice:

Filed:

[22]

[56]

3,807,388

4,088,139

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**Patent Number:** 

5,573,013

**Date of Patent:** 

\*Nov. 12, 1996

[54]	MOVEM	O OF MONITORING BODY ENTS USING ACTIVITY RING APPARATUS	- , ,	4/1991 6/1991	Thornander 128/696 Sholder 128/782 Niwa 128/670 Alt 128/419 OPG
[75]	Inventor:	Robert W. Conlan, Niceville, Fla.	, ,		Thornton
[73]	Assignee:	<b>Precision Control Design, Inc.</b> , Fort Walton Beach, Fla.	, ,		Hauck

[11]

#### OTHER PUBLICATIONS

Experimental Prototype (AM-16) Block Diagram (date unknown).

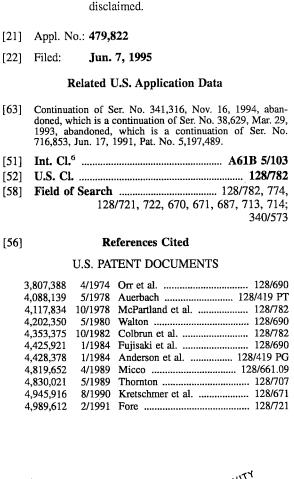
Redmond, D. and Hegge, F., "Observations on the design and specification of a wrist-worn human activity monitoring system" Behavior Res. Methods, Instruments & Computer, (1985).

Primary Examiner—Guy V. Tucker Attorney, Agent, or Firm-Lockwood, Alex, Fitzgibbon & Cummings

#### [57] **ABSTRACT**

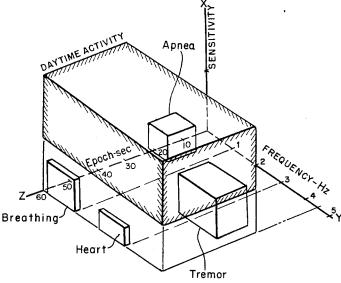
An activity monitor adapted to be worn on the non-dominant wrist of a subject includes a bimorphous beam motion sensor. The output signal of the sensor is amplified in an amplifier circuit having a selectable amplification factor, and filtered by highpass and lowpass filter circuits having individually selectable cut-off frequencies to obtain an analog signal for processing having a bandpass and amplitude characteristic corresponding to a particular body activity under observation. A control and processing circuit within the monitor includes a microprocessor which responds to either resident internal operating instructions or to externally supplied operating instructions, or to designated data signal parameters, to provide configuration control signals to the amplifier and filter circuits, and processing of the collected data, appropriate to the particular activity being monitored. The processed data is digitally stored in an internal memory for subsequent transfer through a data port to an associated computer for display or further processing.

### 7 Claims, 8 Drawing Sheets

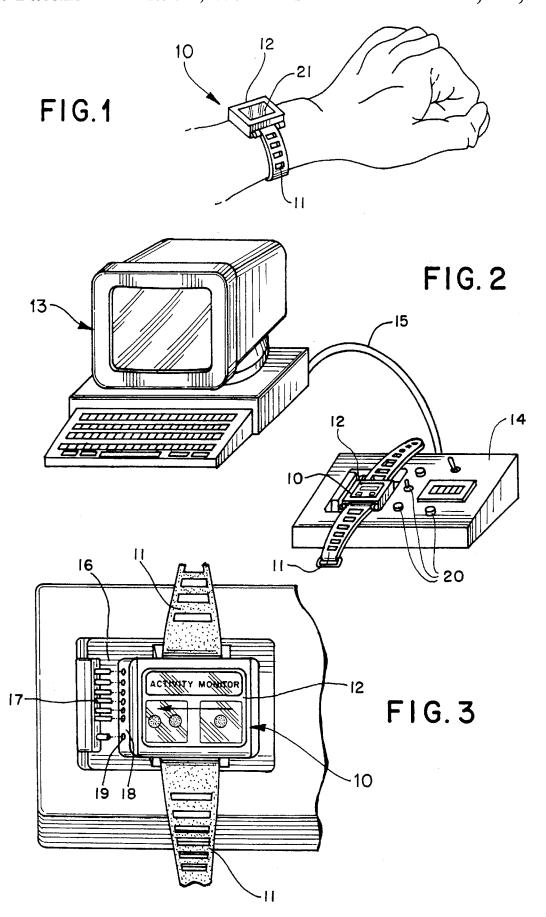


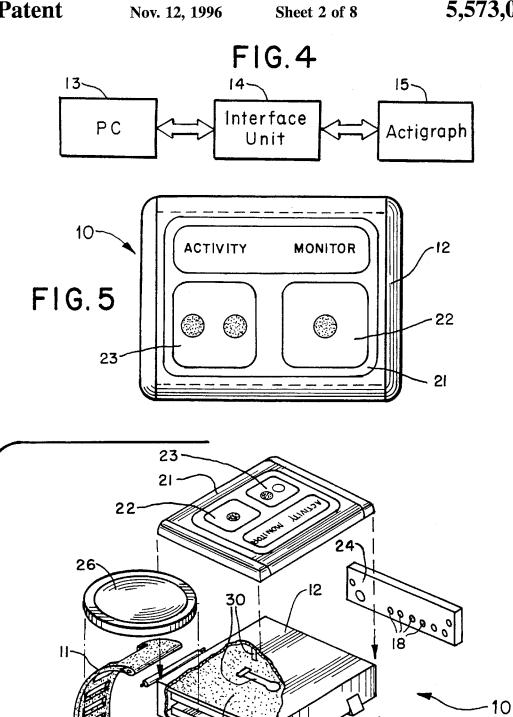
The portion of the term of this patent

subsequent to Jun. 17, 2011, has been









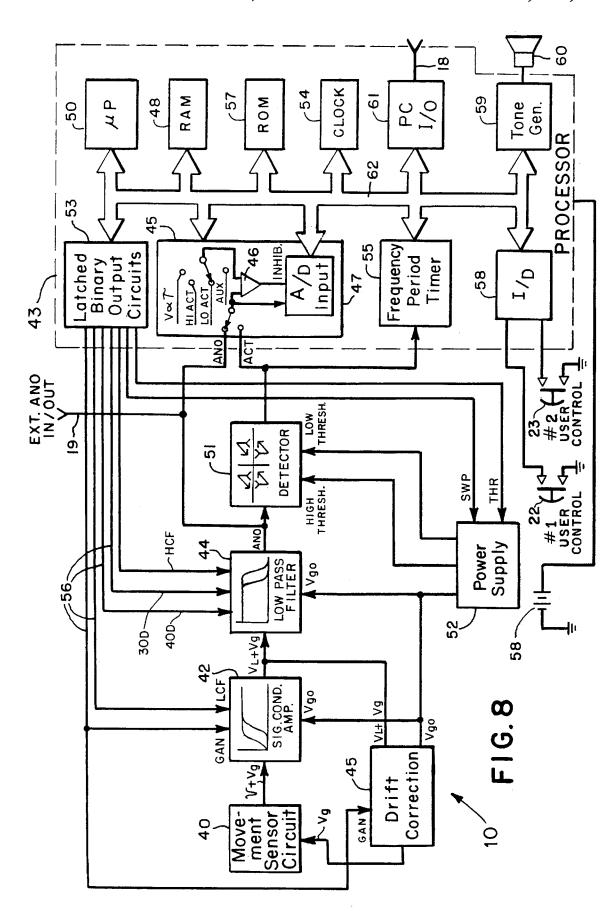
28



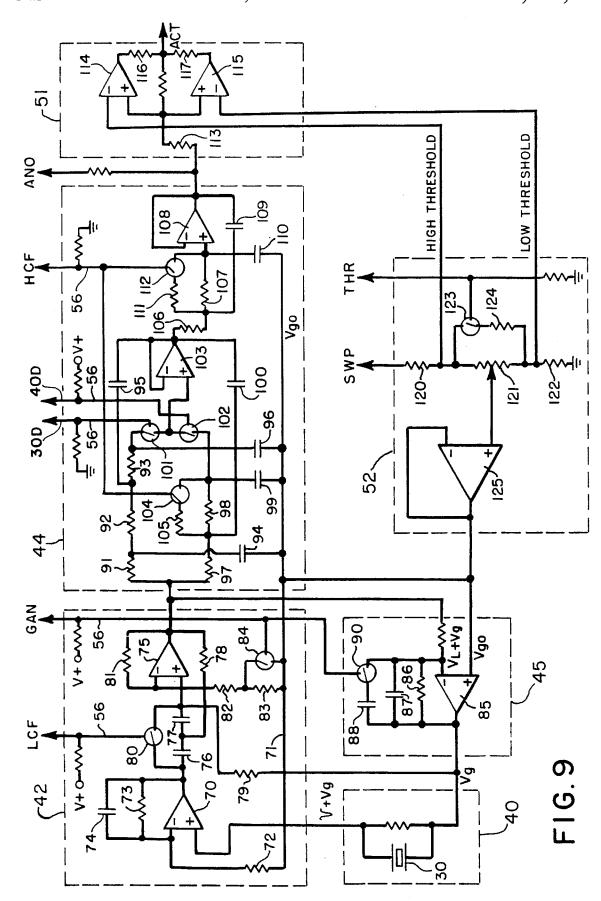
25

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FIG.6









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