

# United States Patent [19]

Lee et al.

5,827,969 **Patent Number:** [11] **Date of Patent:** Oct. 27, 1998 [45]

### [54] PORTABLE HAND HELD DOPPLER FETAL HEART RATE PROBE WITH SELECTIVE **POWER SETTINGS**

[75] Inventors: William C. Lee, Orinda; Del D. Fisher, Santa Cruz; Andras Boross, Belmont,

all of Calif.

[73] Assignee: MedaSonics, Inc., Newark, Calif.

[21] Appl. No.: 662,049

Jun. 12, 1996 [22] Filed:

[58] Field of Search ...... 128/661.07, 661.09, 128/698; •73/627, 861.25; 364/413.25,

A probe in a hand held ultrasonic Doppler fetal heart beat detector and monitoring system comprising a crystal for transmitting ultrasonic energy, a variable power source connected to said crystal for driving the crystal at a selected power setting and a microprocessor for selecting a power setting for the variable power source.

#### **References Cited** [56]

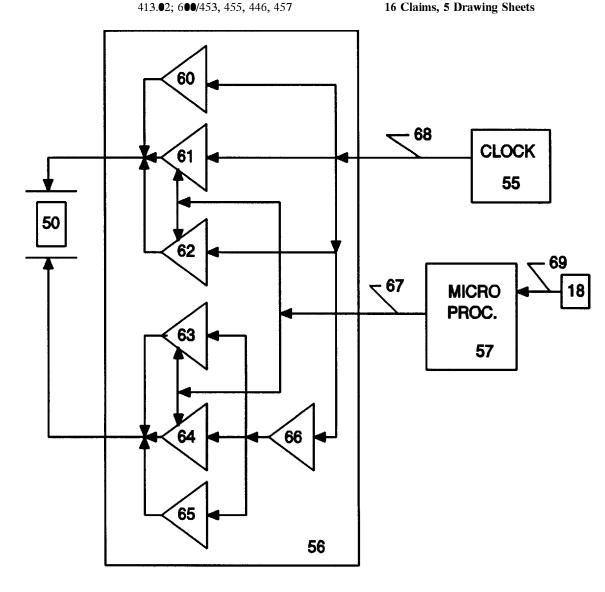
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Primary Examiner—Christine K. Oda Attorney, Agent, or Firm-Fliesler, Dubb, Meyer & Lovejoy

**ABSTRACT** 

## 16 Claims, 5 Drawing Sheets





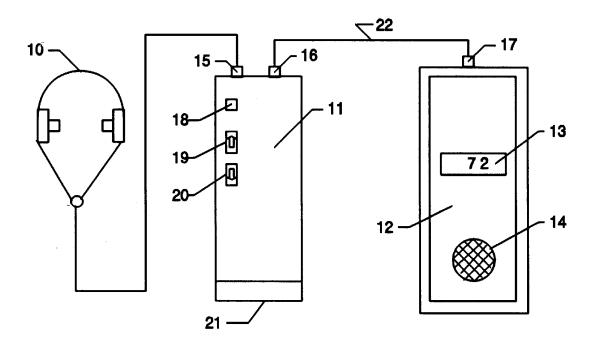
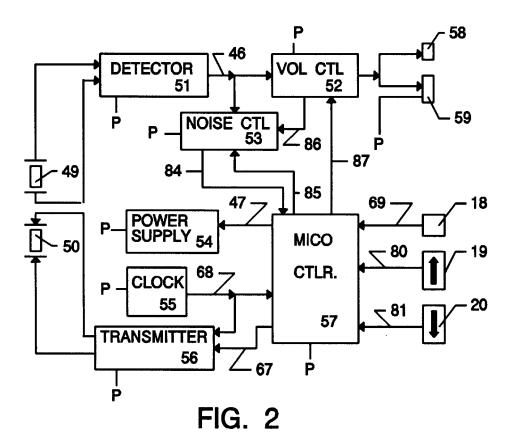
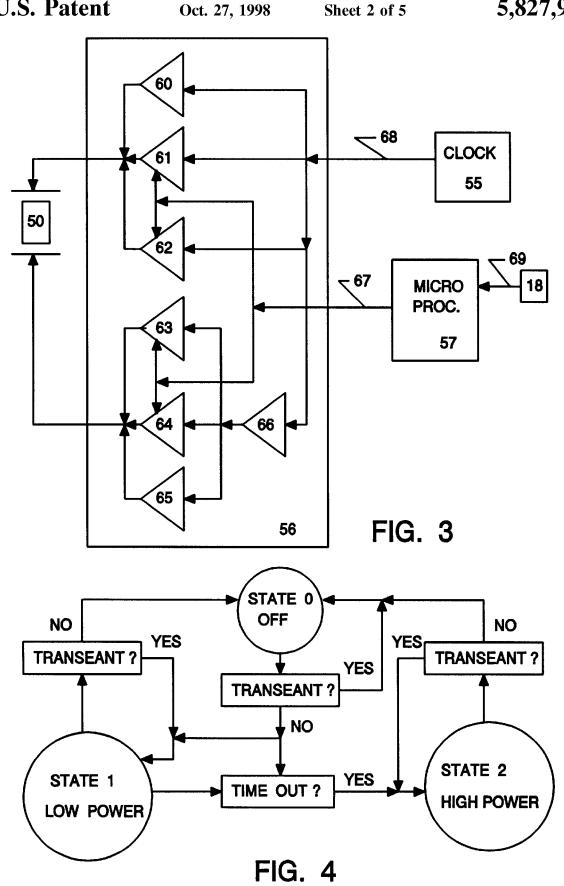
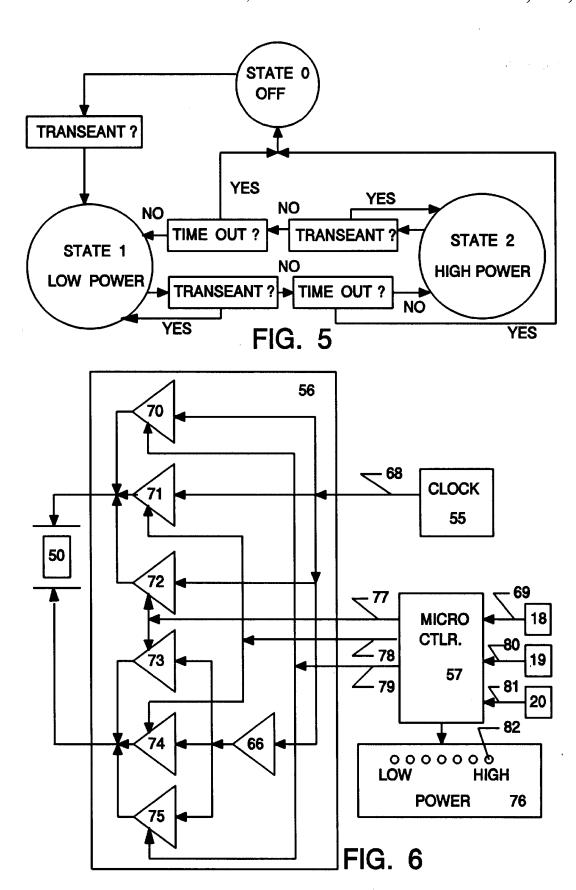


FIG. 1









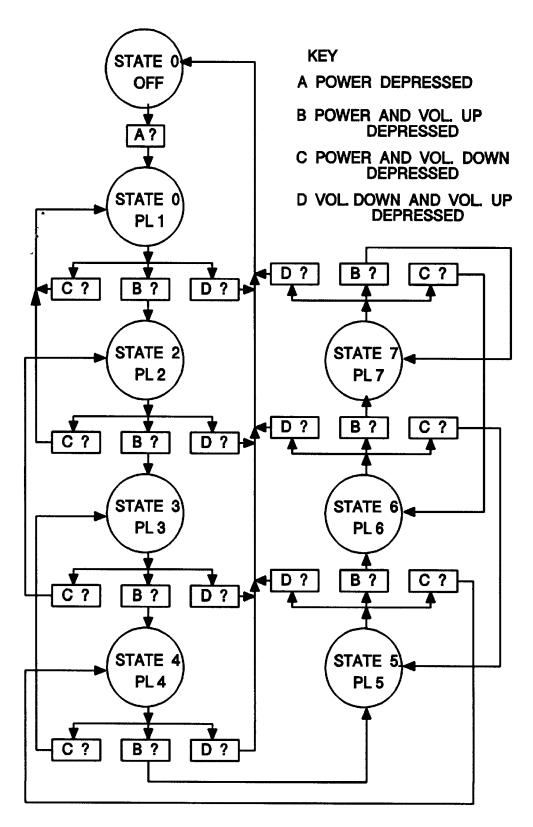


FIG. 7



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