

### United States Patent [19]

Sham et al.

#### [54] FITNESS MONITORING DEVICE HAVING AN ELECTRONIC PEDOMETER AND A WIRELESS HEART RATE MONITOR

- [75] Inventors: Ka Yiu Sham, Great Falls, Va.; Philip Lim-Kong Wong, Northants, England
- [73] Assignee: Acumen, Inc., Sterling, Va.
- [21] Appl. No.: **926,035**
- [22] Filed: Sep. 9, 1997
- [51] Int. Cl.<sup>6</sup> ..... A61B 5/0205

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Patent Number:

### [45] **Date of Patent:** Apr. 6, 1999

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Primary Examiner—William E. Kamm

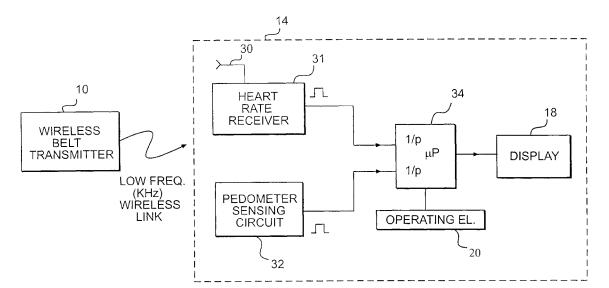
Attorney, Agent, or Firm—Evenson, McKeown, Edwards & Lenahan P.L.L.C.

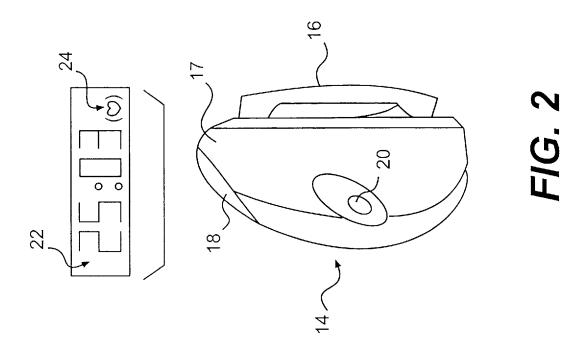
### [57] ABSTRACT

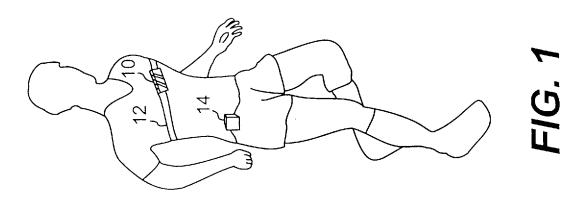
[11]

A fitness monitoring device includes an electronic pedometer which responds to a user's body motion at each step and a wireless heart rate monitor which is wirelessly coupled to the electronic pedometer. The wireless heart rate monitor provides a heart beat signal indicative of an exertion level of the user. A visual display is provided to display the pedometer functions and the heart rate signal. A microprocessor receives the pedometer output signal and the heart rate signal. The microprocessor is programmed to provide visual display data relating to the heart rate and pedometer functions.

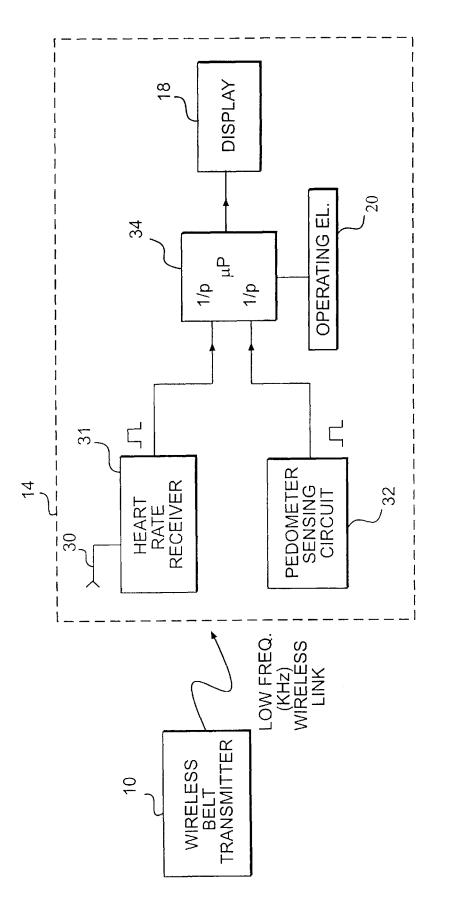
#### 9 Claims, 5 Drawing Sheets





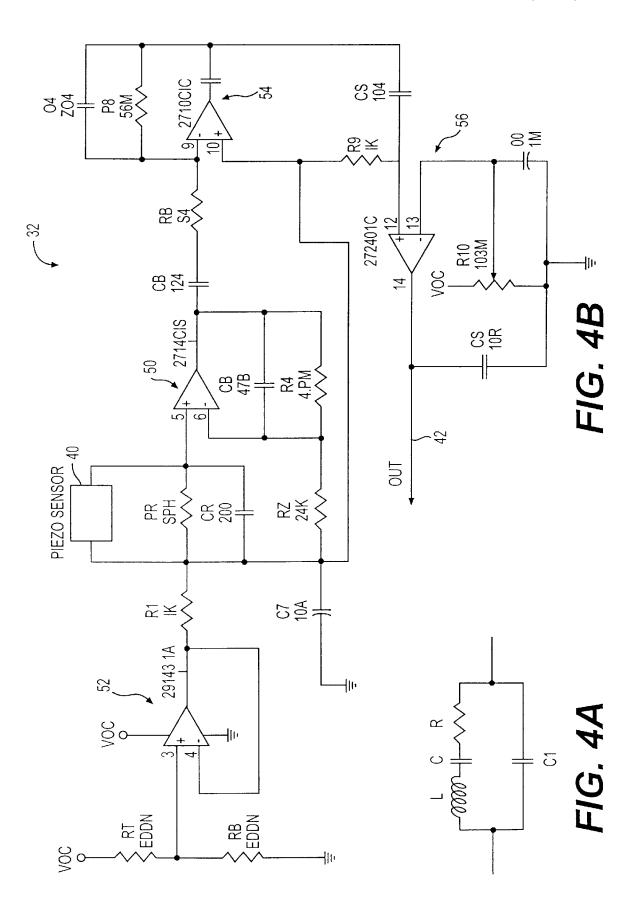


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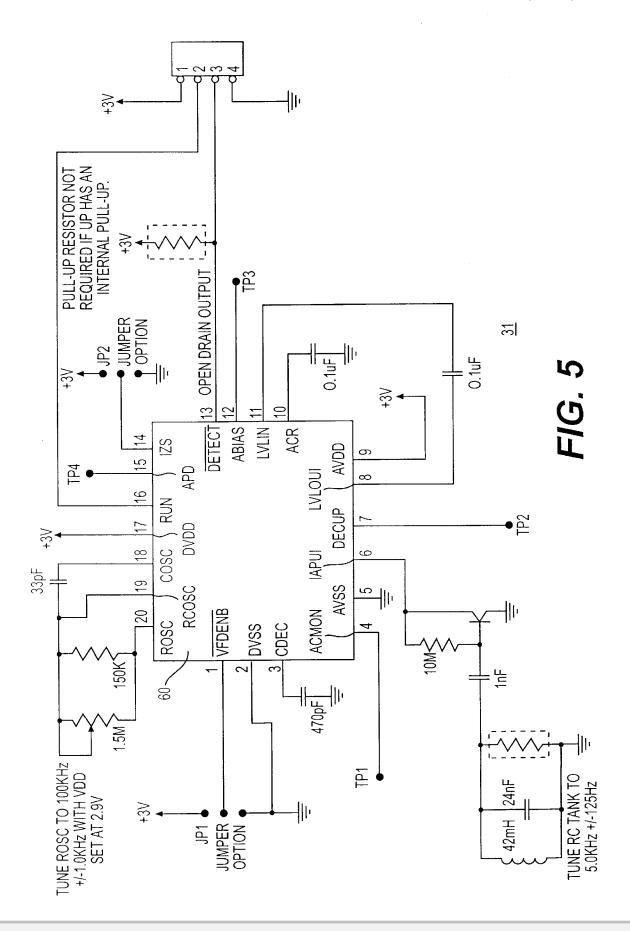
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