

United States Patent [19]

Sham et al.

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

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- [21] Appl. No.: **926,035**
- [22] Filed: Sep. 9, 1997
- [51] Int. Cl.⁶ A61B 5/0205

[56] References Cited

U.S. PATENT DOCUMENTS

4,367,752	1/1983	Jimenez et al	600/519
5,335,664	8/1994	Nagashima	128/903

Patent Number:

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

5,891,042

5,456,262	10/1995	Birnbaum .
5,491,474	2/1996	Suni et al
5,539,706	7/1996	Takenaka et al.

Primary Examiner—William E. Kamm

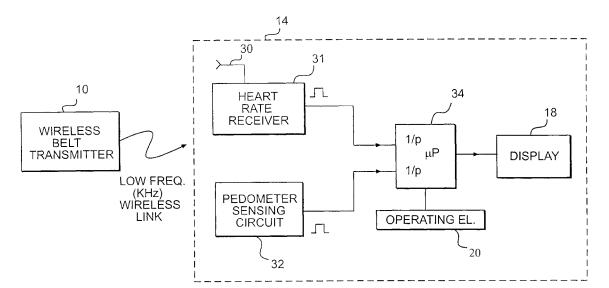
Attorney, Agent, or Firm—Evenson, McKeown, Edwards & Lenahan P.L.L.C.

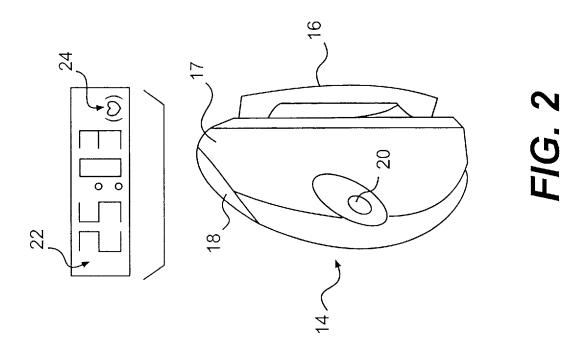
[57] ABSTRACT

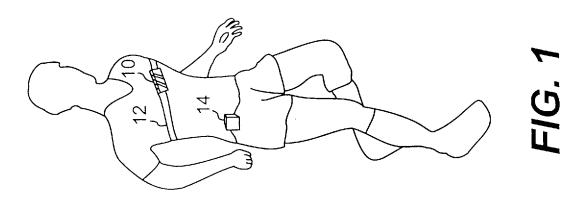
[11]

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.

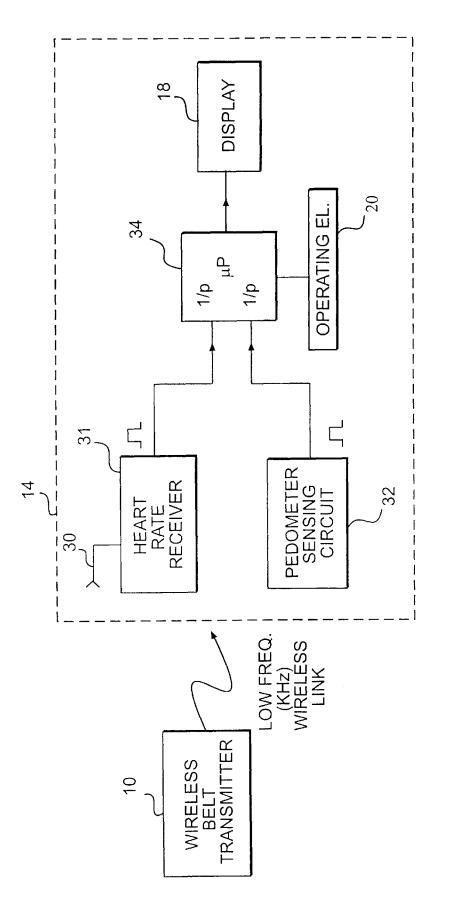
9 Claims, 5 Drawing Sheets





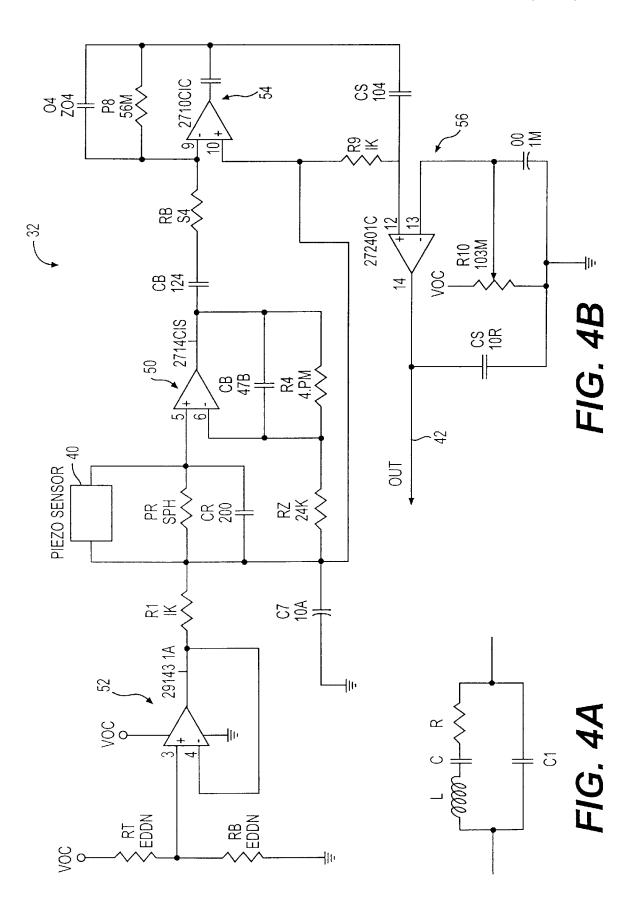


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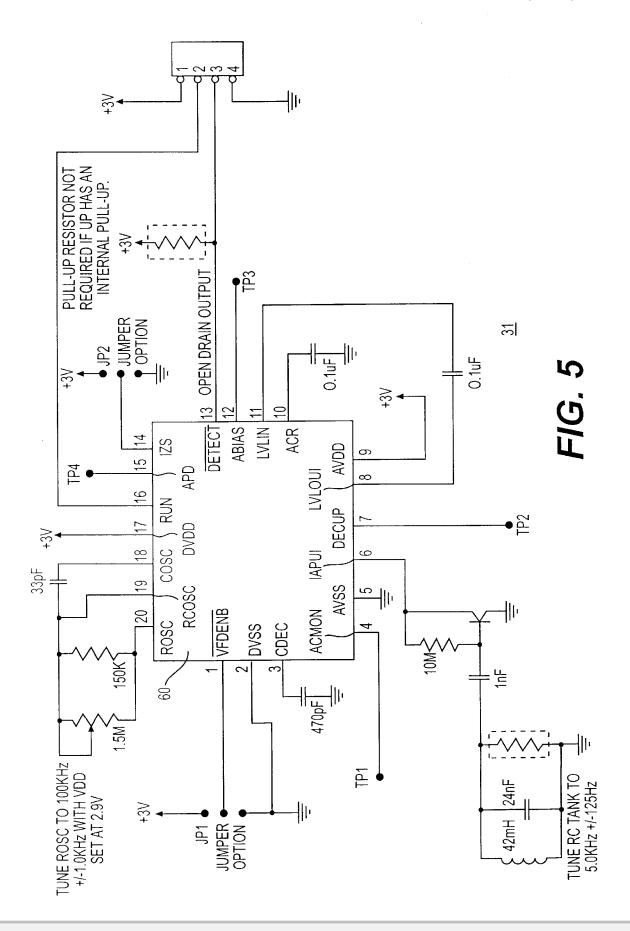
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