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United States Patent [19]

Sham et al.

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

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5,491,474 2/1996 Suni et al. .
5,539,706 7/1996 Takenaka et al. .

[75] Inventors: **Ka Yiu Sham**, Great Falls, Va.; **Philip
Lim-Kong Wong**, Northants, England

Primary Examiner—William E. Kamm
Attorney, Agent, or Firm—Evenson, McKeown, Edwards &
Lenahan P.L.L.C.

[73] Assignee: **Acumen, Inc.**, Sterling, Va.

[57] **ABSTRACT**

[21] Appl. No.: **926,035**

[22] Filed: **Sep. 9, 1997**

[51] **Int. Cl.⁶** **A61B 5/0205**

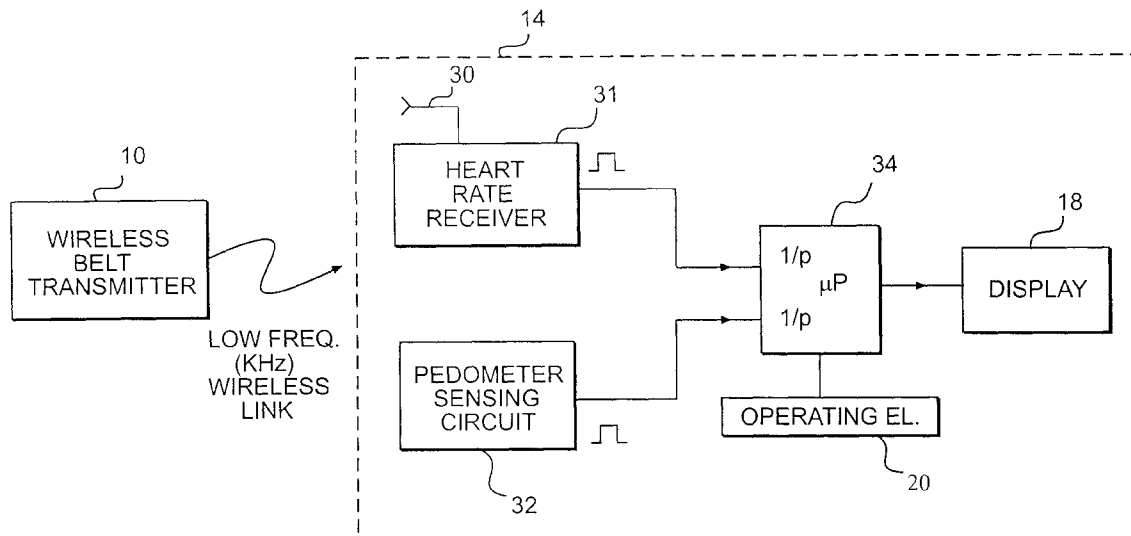
[52] **U.S. Cl.** **600/483**

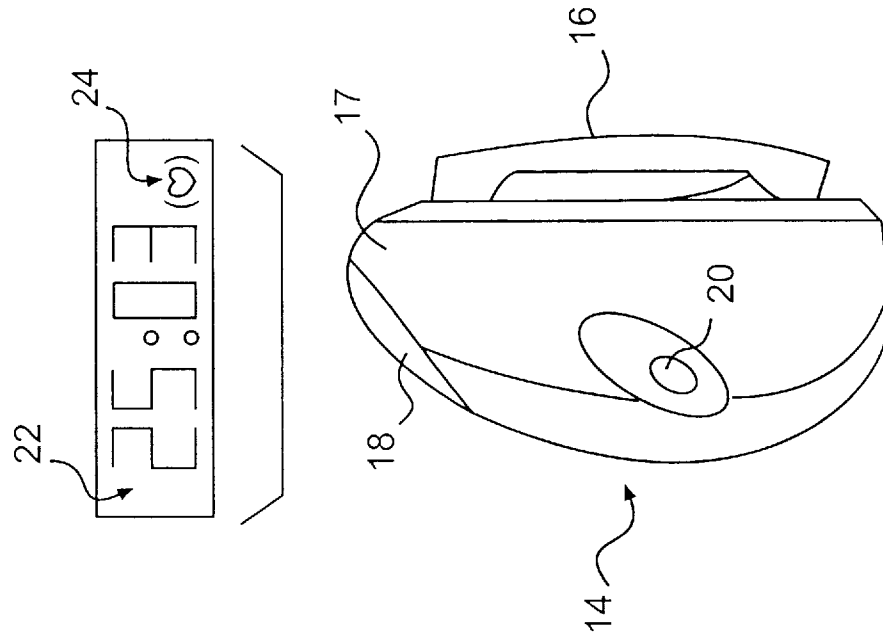
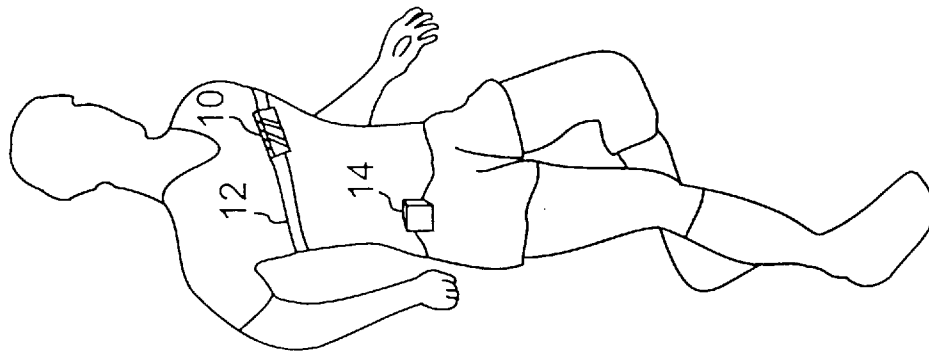
[58] **Field of Search** 600/483, 503,
600/508, 509, 519, 520; 128/903

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.

[56] **References Cited****U.S. PATENT DOCUMENTS**

4,367,752 1/1983 Jimenez et al. 600/519
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9 Claims, 5 Drawing Sheets

**FIG. 2****FIG. 1**

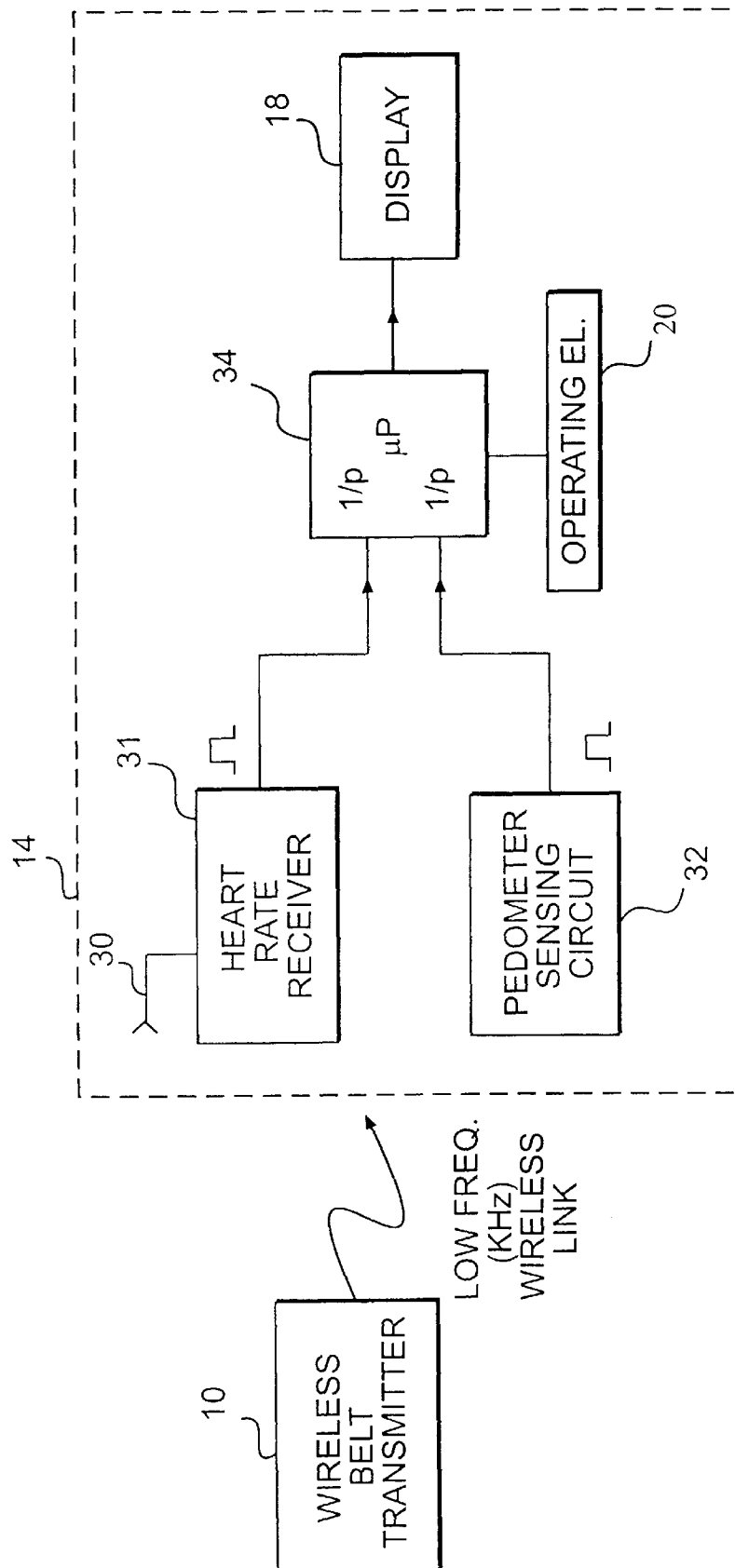


FIG. 3

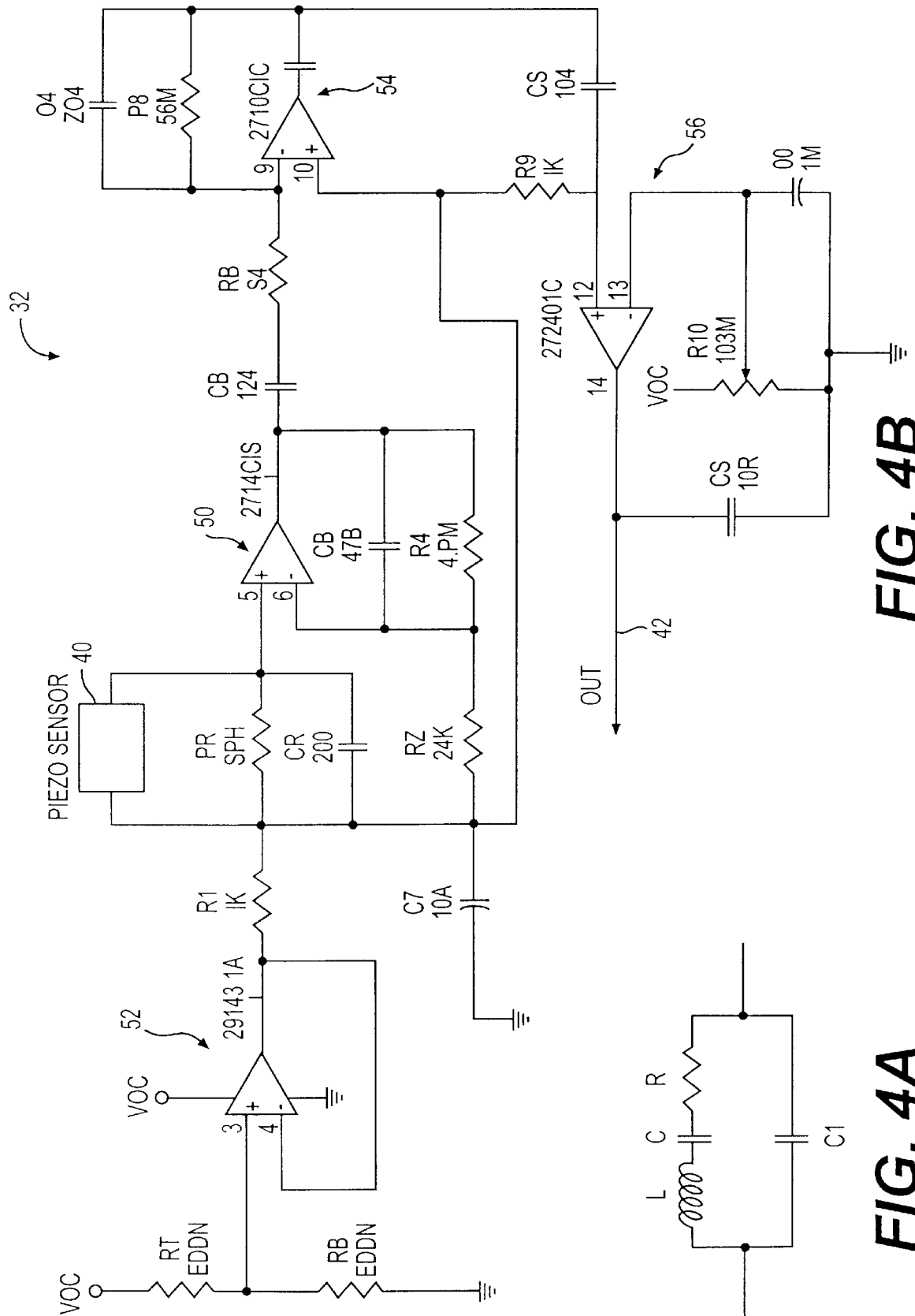
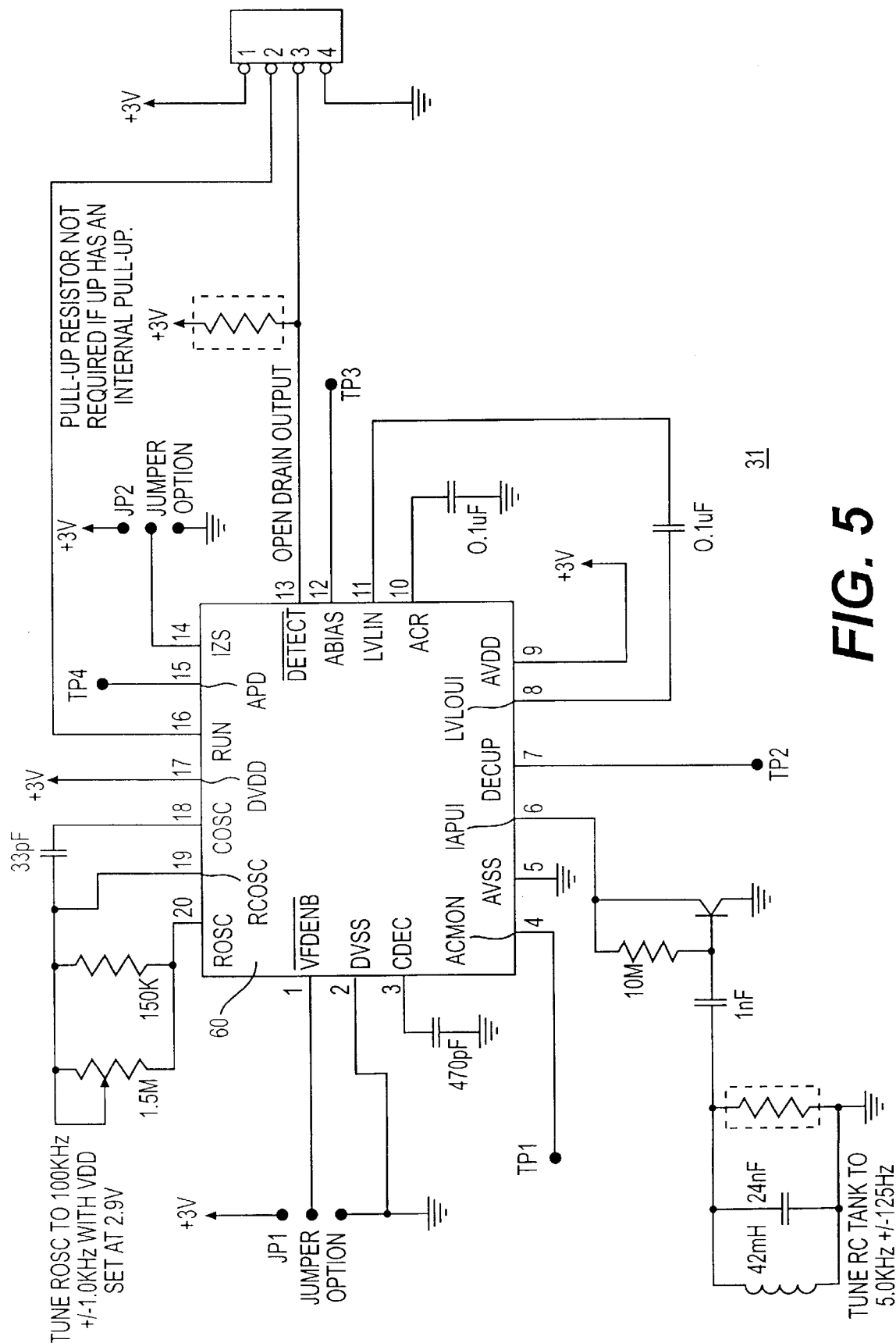


FIG. 4B

FIG. 4A



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