United States Patent [19] Patent Number: Shimizu et al. Data of Datanta [54] PULSE DETECTION APPARATUS [75] Inventors: Atsuko Shimizu; Hiroshi Fujii; Shinichi Ohki, all of Tokyo, Japan [73] Assignee: Casio Computer Co., Ltd., Tokyo, Japan 4,450,843 5/1984 Barney et al. 128/690 4,489,731 12/1984 Baumberg 128/690 [21] Appl. No.: 901,783 4,566,461 1/1986 Lubell et al. 128/689 [22] Filed: Aug. 28, 1986 [30] Foreign Application Priority Data Aug. 31, 1985 [JP] Japan 60-192632 Woodward Aug. 31, 1985 [JP] Japan 60-192633 U.S. Cl. 128/690; 128/706 [58] Field of Search 128/690, 707, 706 [56] References Cited U.S. PATENT DOCUMENTS 3,937,004 2/1976 Natori et al. 128/690

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 [45] D	ate of	Patent: Feb. 28	, 1989
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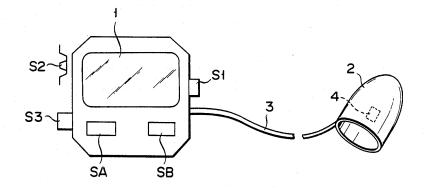
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Primary Examiner-Francis Jaworski Assistant Examiner—George Manuel Attorney, Agent, or Firm-Frishauf, Holtz, Goodman &

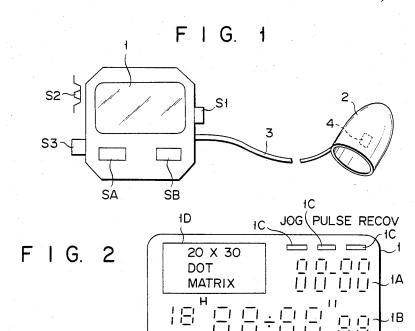
ABSTRACT

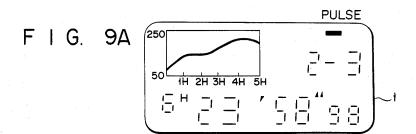
A pulse detection apparatus includes a memory for storing the normal pulse count of a user. After taking some exercise such as jogging, the percentage of the pulse count, detected by a pulse sensor, with respect to the normal pulse count, is calculated, and the results are displayed, to allow the user to determine the recovery rate of his physical strength.

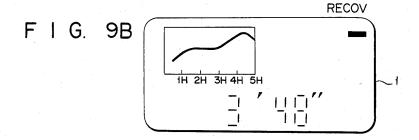
21 Claims, 19 Drawing Sheets



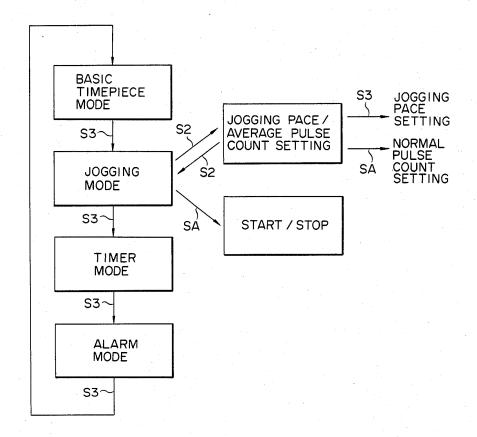


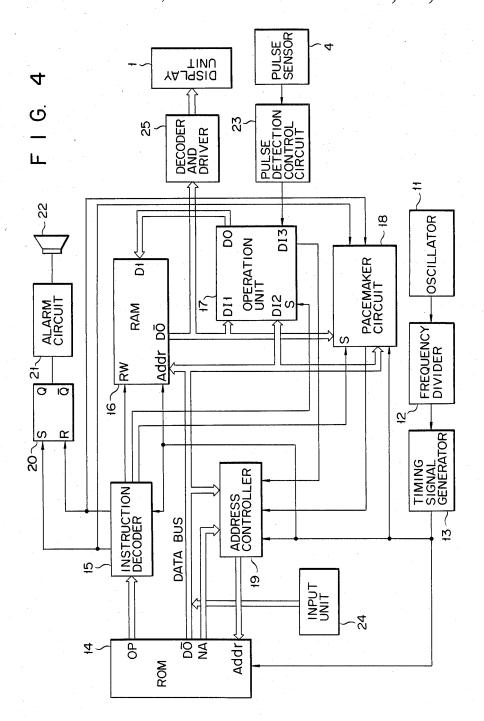






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