United States Patent [19]

Matsumoto et al.

[54] EXERCISE AND TRAINING MACHINE WITH MICROCOMPUTER-ASSISTED TRAINING GUIDE

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- [21] Appl. No.: 712,764
- [22] Filed: Mar. 18, 1985

[30] Foreign Application Priority Data

	Japan 59-262477 Japan 59-275544
[51] Int. Cl. ⁴	

[52] U.S. Cl. 272/73; 213/DIG. 28; 128/689

[45] Date of Patent: Mar. 27, 1990

[58] Field of Search 272/73; 273/DIG. 28; 128/689

[56] **References Cited**

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Primary Examiner-Anton O. Oechsle

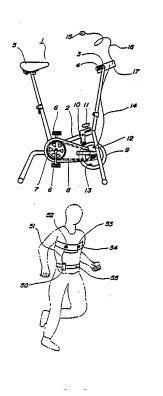
Assistant Examiner-Jessica J. Harrison

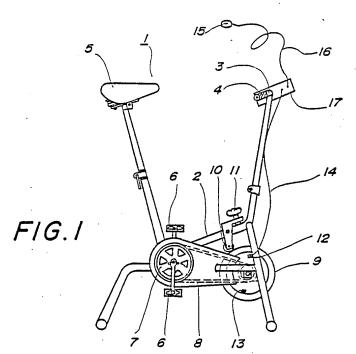
Attorney, Agent, or Firm-Birch, Stewart, Kolasch & Birch

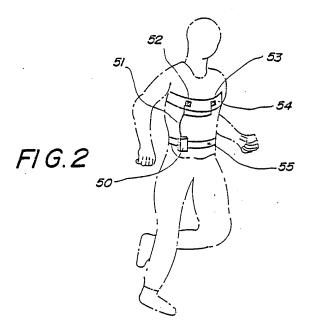
[57] ABSTRACT

An exercise management machine which measures the individual's pulse and is provided with an indicator to inform the user of an exercise program that is suited to the individual and/or an indicator to inform the individual of the results of exercise, and if possible, an indicator to instruct the user to train according to the prescribed program, from warming up, training to cooling down, and keeps the individual informed of his/her ongoing status.

11 Claims, 21 Drawing Sheets



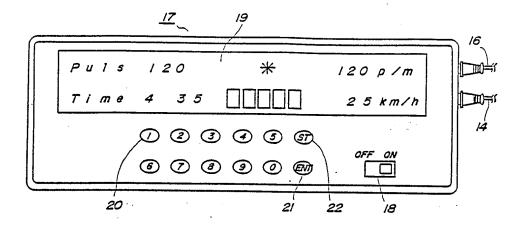




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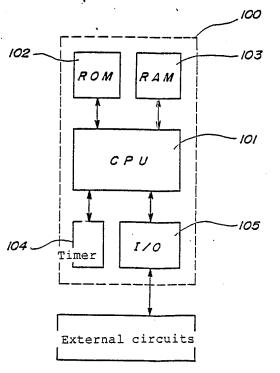
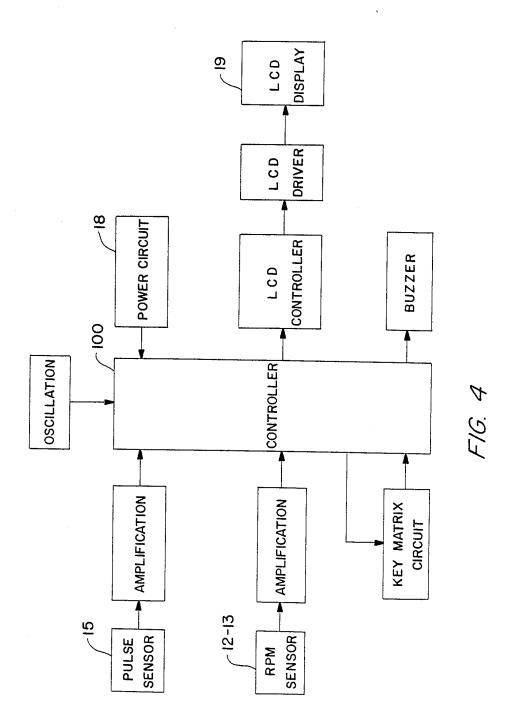


FIG.5

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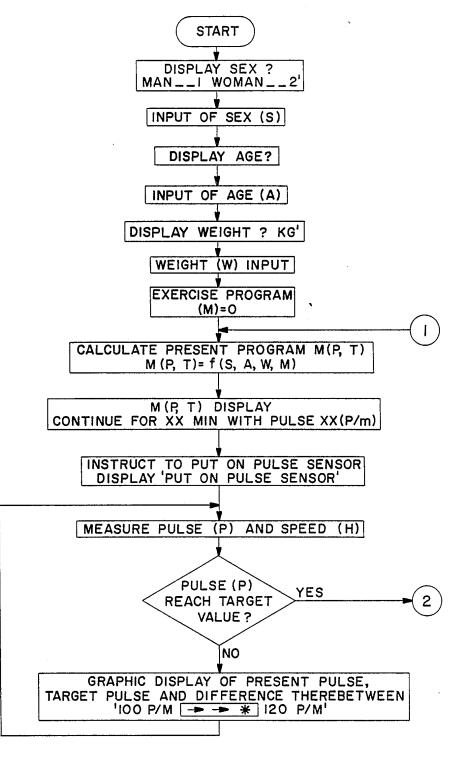


FIG. 6 (a)

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