



US005553007A

# United States Patent [19]

[11] **Patent Number:** **5,553,007**

**Brisson**

[45] **Date of Patent:** **\* Sep. 3, 1996**

[54] **TRAVEL COMPUTER WITH MEMORY AND MEANS FOR DETERMINING VARIOUS PERFORMANCE VARIABLES IN REAL TIME**

4,638,448	1/1987	Cuvelier et al. ....	364/565
4,820,979	4/1989	Schwerdhofer et al. ....	324/171
5,335,188	8/1994	Brisson .....	364/551.01

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*Attorney, Agent, or Firm*—Matthew F. Jodziewicz

[\*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,335,188.

### [57] **ABSTRACT**

A device for monitoring and comparing present, past and ideal performances on an exercise machine senses a preselected set of factors chosen to represent the present performance of the user on the machine. A Processor operates under a predetermined set of user controlled instructions to store the set of performance data for each performance of the user in its memory unit, and compare the present set against a stored set of performance data representing a saved prior performance. It generates an output display signal representative of a comparison metric therebetween.

[21] Appl. No.: **364,293**

[22] Filed: **Dec. 27, 1994**

[51] **Int. Cl.<sup>6</sup>** ..... **G01C 23/00**

[52] **U.S. Cl.** ..... **364/561; 364/551.01; 364/565**

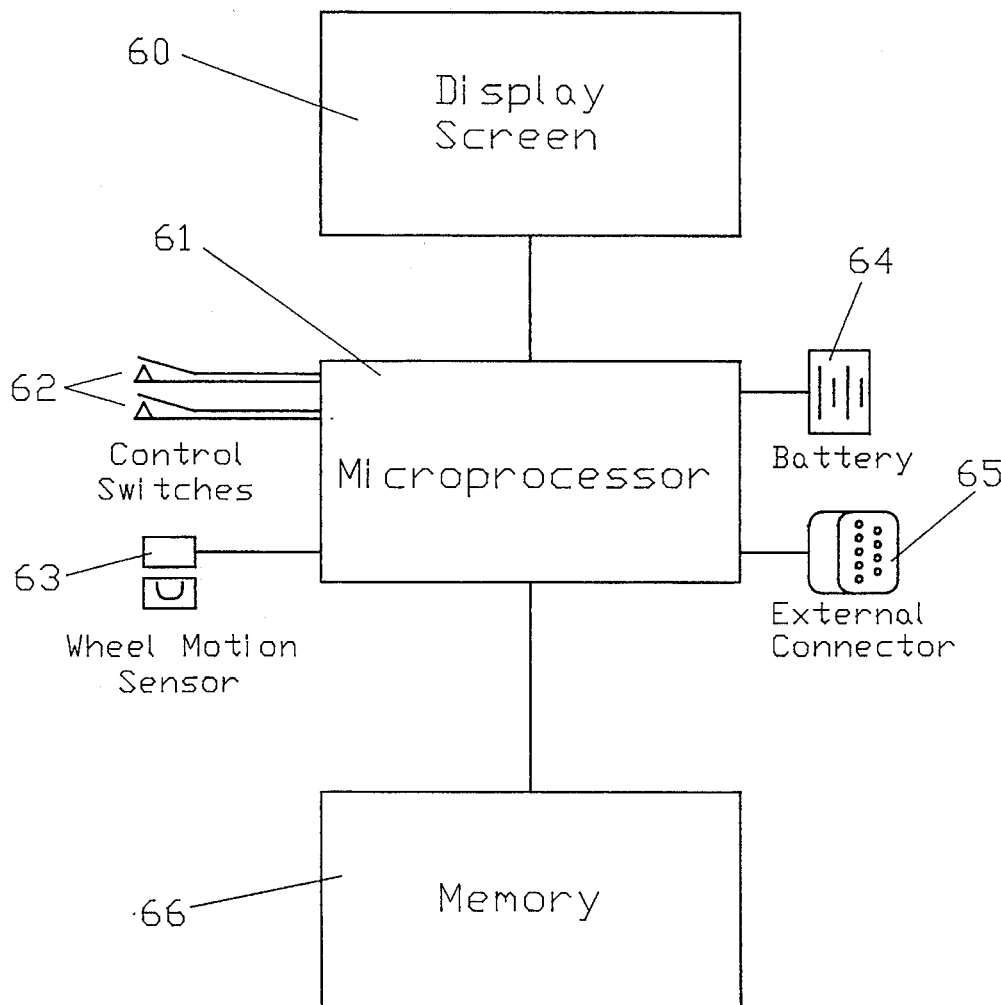
[58] **Field of Search** ..... **364/551.01, 561, 364/565**

### [56] **References Cited**

#### U.S. PATENT DOCUMENTS

4,156,190 5/1979 Chittenden et al. .... 324/175

**8 Claims, 5 Drawing Sheets**



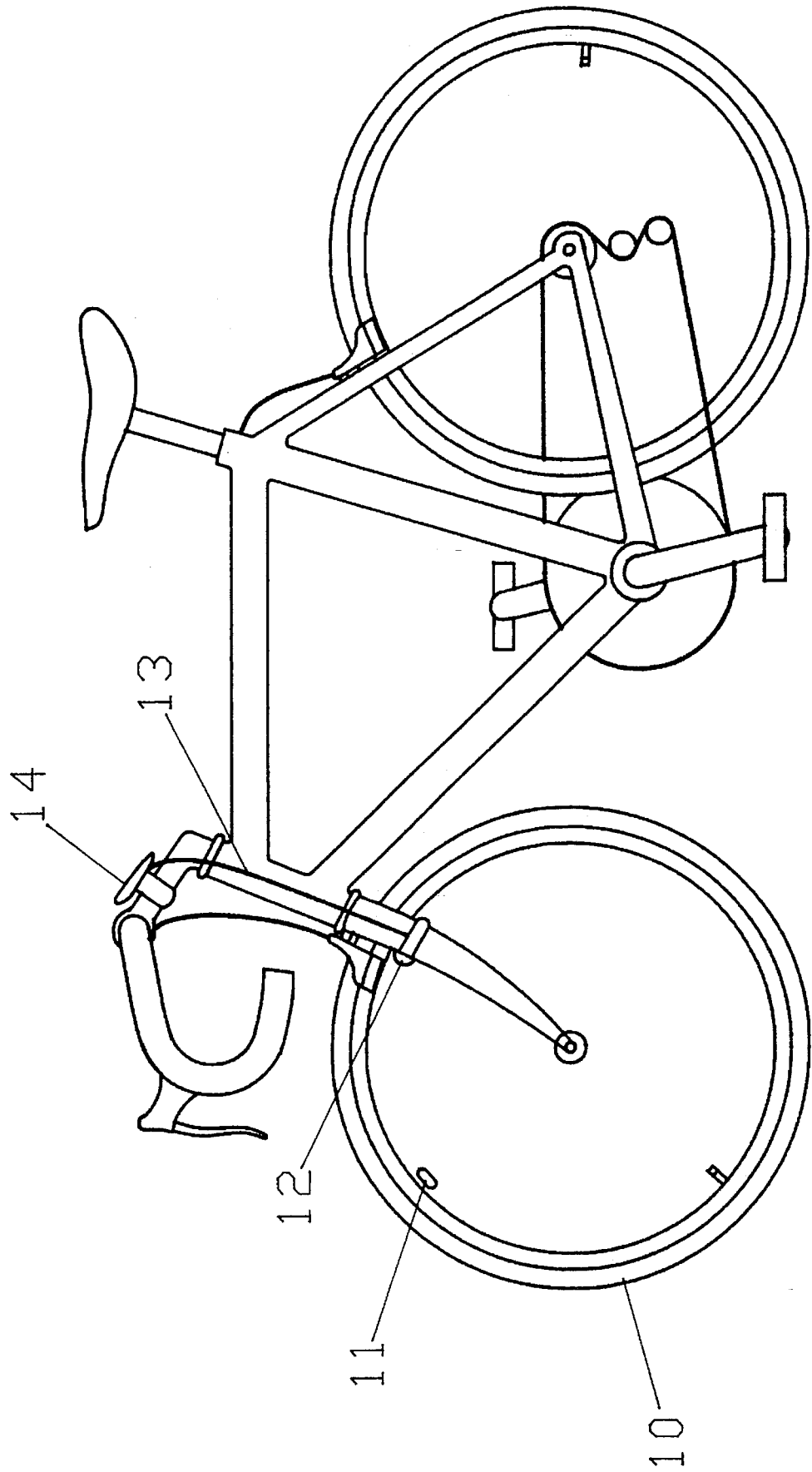


FIGURE 1

FIGURE 2

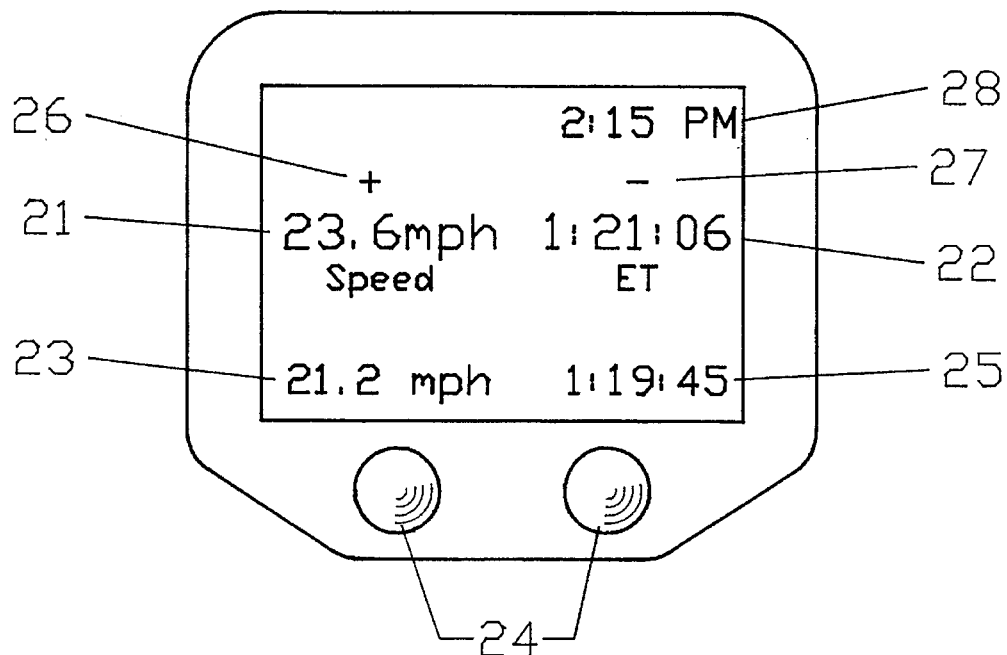


FIGURE 3

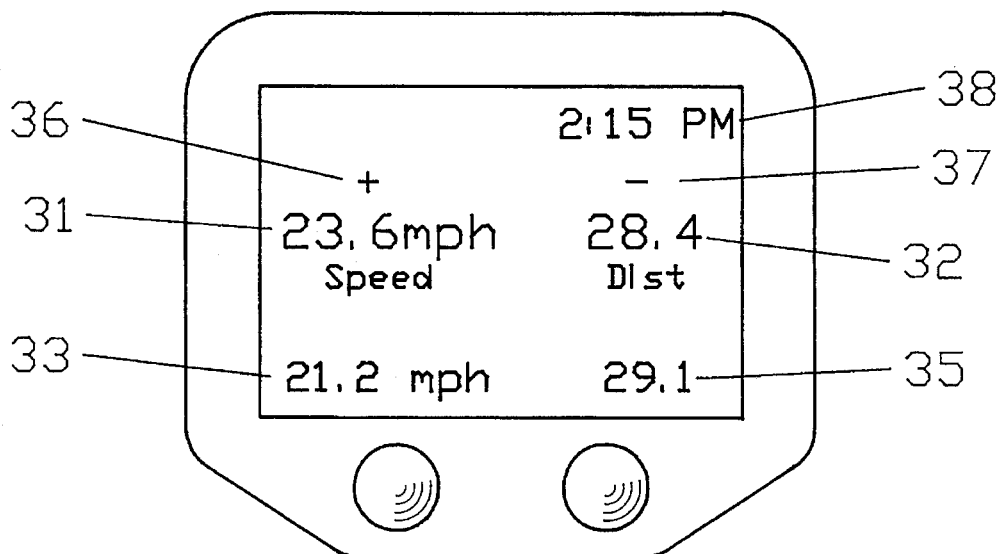


FIGURE 4

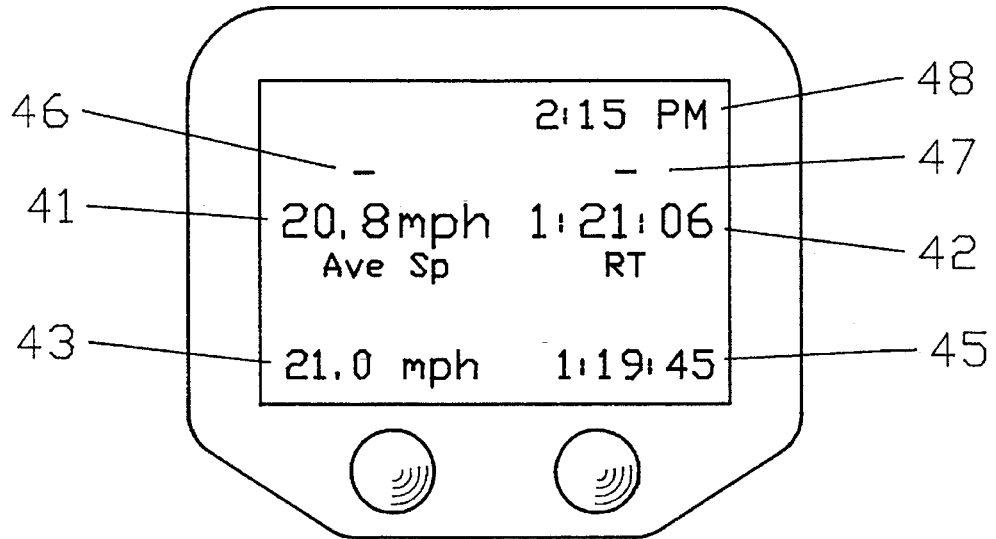


FIGURE 5

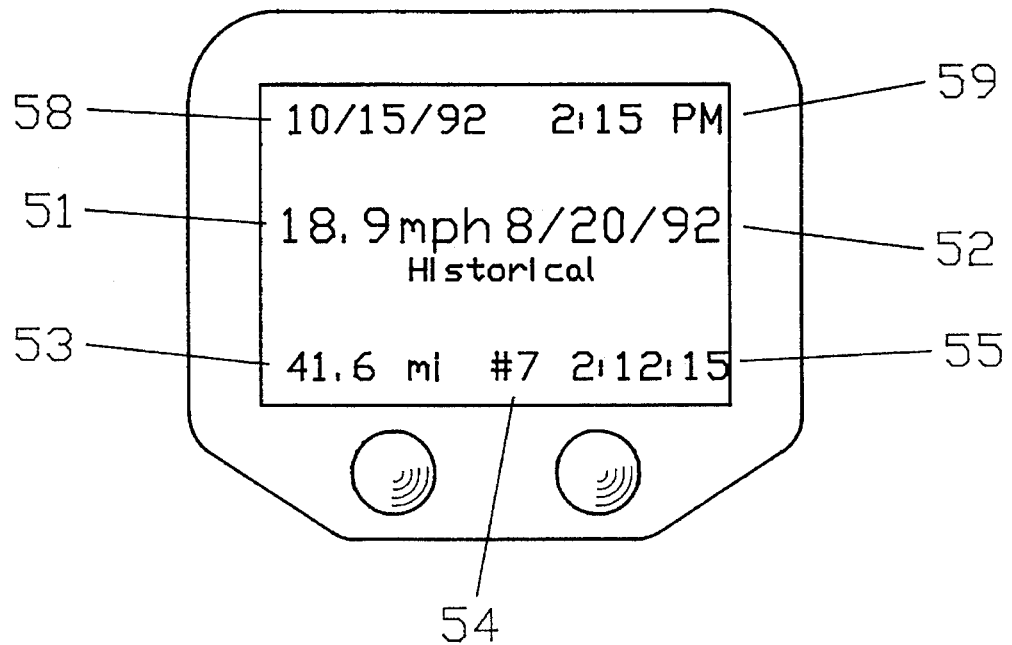
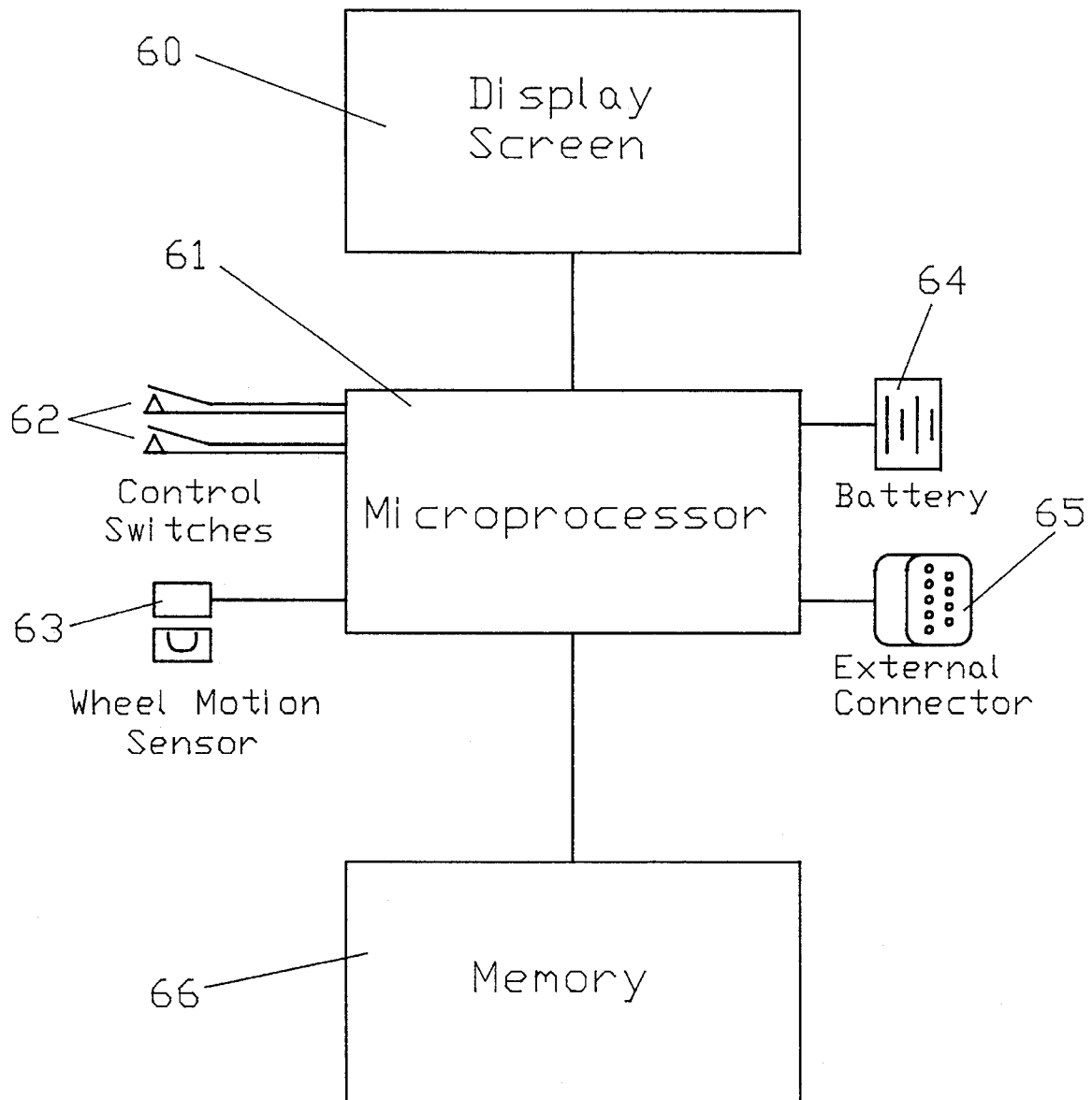


FIGURE 6



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