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# United States Patent [19]

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## [54] DISPLAY FOR A TEMPERATURE CONTROL SYSTEM

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[\*] Notice: The term of this patent shall not extend beyond the expiration date of Pat. No. 5,507,251.

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[51] Int. Cl.<sup>6</sup> ..... **G06F 7/70**

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## [57] ABSTRACT

A system for displaying engine temperature information for a temperature control system in an internal combustion engine. A first temperature sensor senses the temperature of ambient air. A second temperature sensor senses the temperature of an engine oil. A third temperature sensor senses the temperature of a temperature control fluid. The sensors provide signals indicative of the sensed temperatures to an engine computer. The engine computer compares the sensed ambient air temperature to a first set of predetermined values to determine a desired engine oil temperature. The engine computer also compares the sensed ambient air temperature to a second set of predetermined values to determine a desired temperature control fluid temperature. A signal indicative of the desired engine oil temperature and/or the desired temperature control fluid temperature is output from the engine computer to a display system. The display system displays the desired and the sensed temperature signals. The display system may be incorporated into the instrument panel of a vehicle. Alternately the display system may be part of a testing apparatus for testing the operational state of the temperature control system. One or more gauges may be incorporated into the display for accurately displaying the desired and sensed temperatures.

35 Claims, 9 Drawing Sheets

