

[54] TWO-CYCLE ENGINE WITH ELECTRONIC FUEL INJECTION

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4,843,576 6/1989 Smith et al. 364/557

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[21] Appl. No.: 345,081

[57] ABSTRACT

[22] Filed: Apr. 28, 1989

A fuel injection system for a two-stroke cycle engine comprising an air manifold; a throttle valve; a fuel injector; a fuel supply system including a fuel pump; a battery voltage sensor; an air temperature sensor; an engine speed sensor; a timing sensor; a barometric pressure sensor; a throttle position sensor; a first data processor for receiving and processing sensing signals for determining fuel injector duration and timing and fuel pump operating speed; a first data processor temperature sensor for sensing the relative temperature of certain electronic components in the first data processor; a heater operatively associated with the first data processor electronic components for selectively heating the electronic components; and a second data processor operable independently of the first data processor for receiving an electronic component temperature sensing signal and for generating a control signal to the heater responsive thereto for heating the components when the temperature thereof is below a predetermined minimum value.

Related U.S. Application Data

[63] Continuation of Ser. No. 119,626, Nov. 12, 1987, abandoned.

[51] Int. Cl.⁴ F02M 7/00; G05D 23/00

[52] U.S. Cl. 123/478; 364/557; 236/DIG. 8

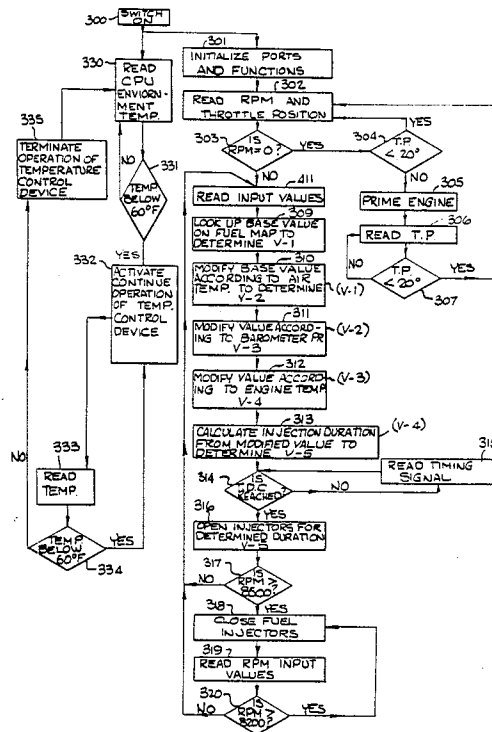
[58] Field of Search 123/478, 480, 73 A, 123/65 BA, 383, 502, 440, 492, 489; 364/186, 550, 557, 510, 555.01; 236/DIG. 8

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1 Claim, 5 Drawing Sheets



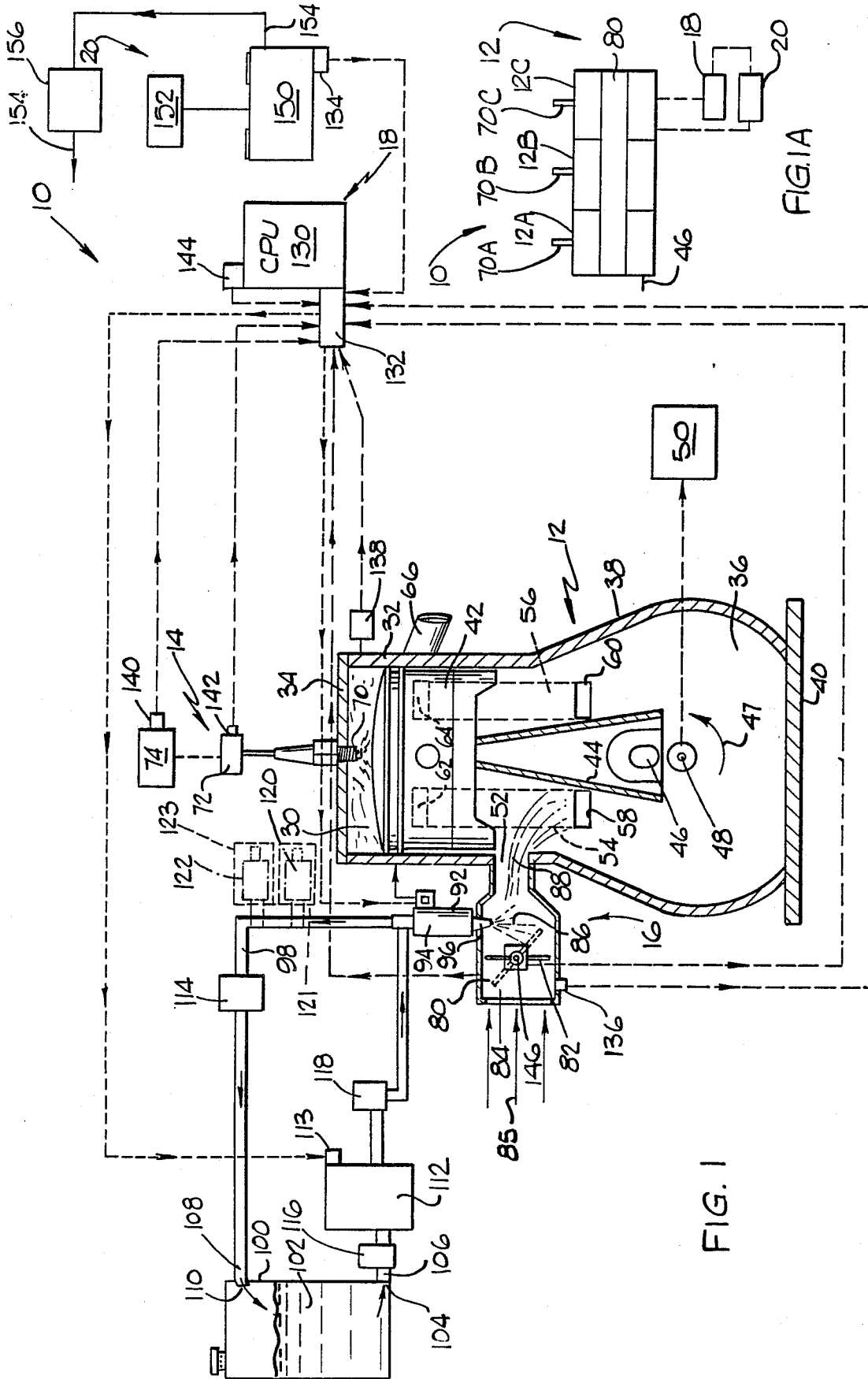


FIG. 1

FIG. 1A

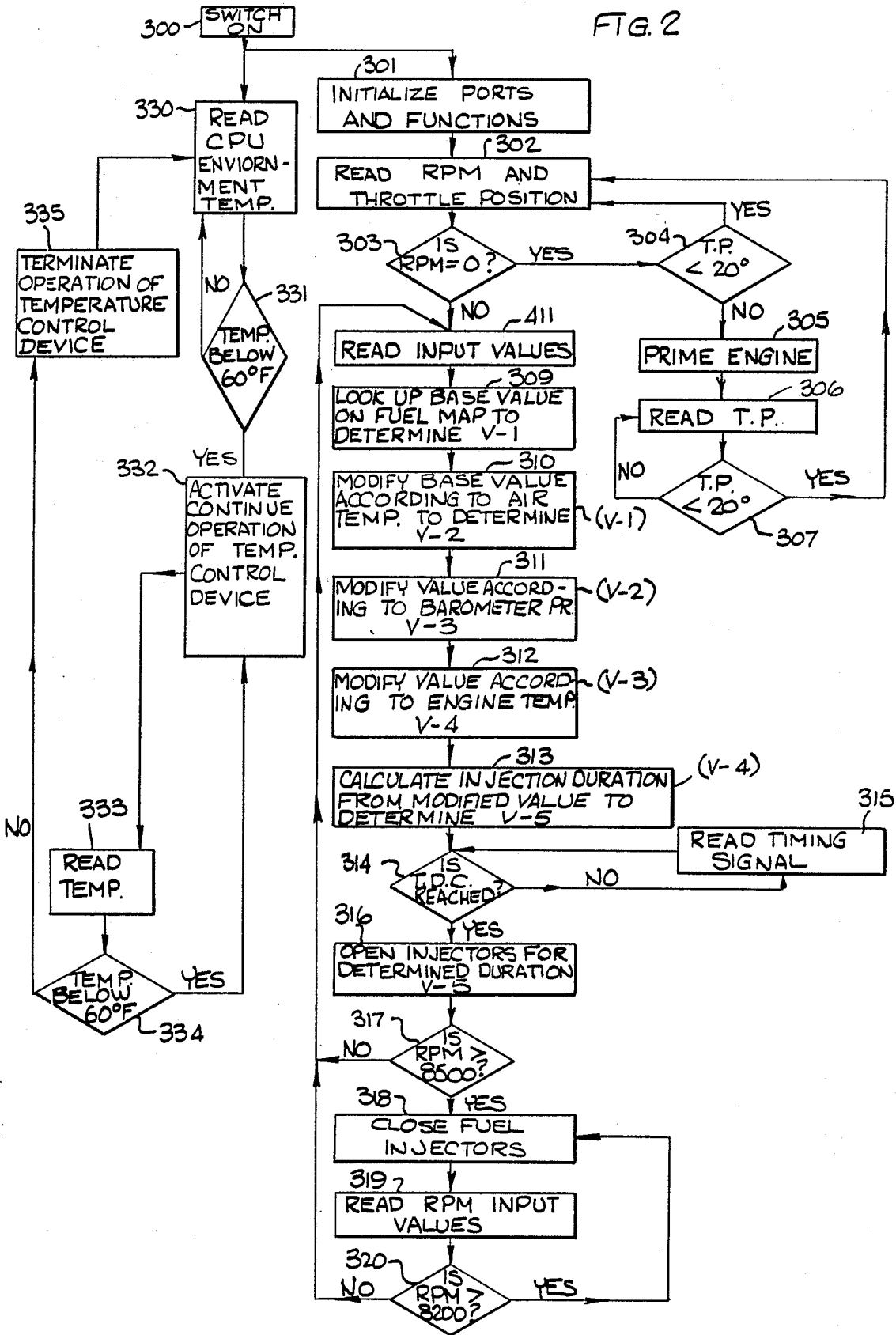


FIG. 3

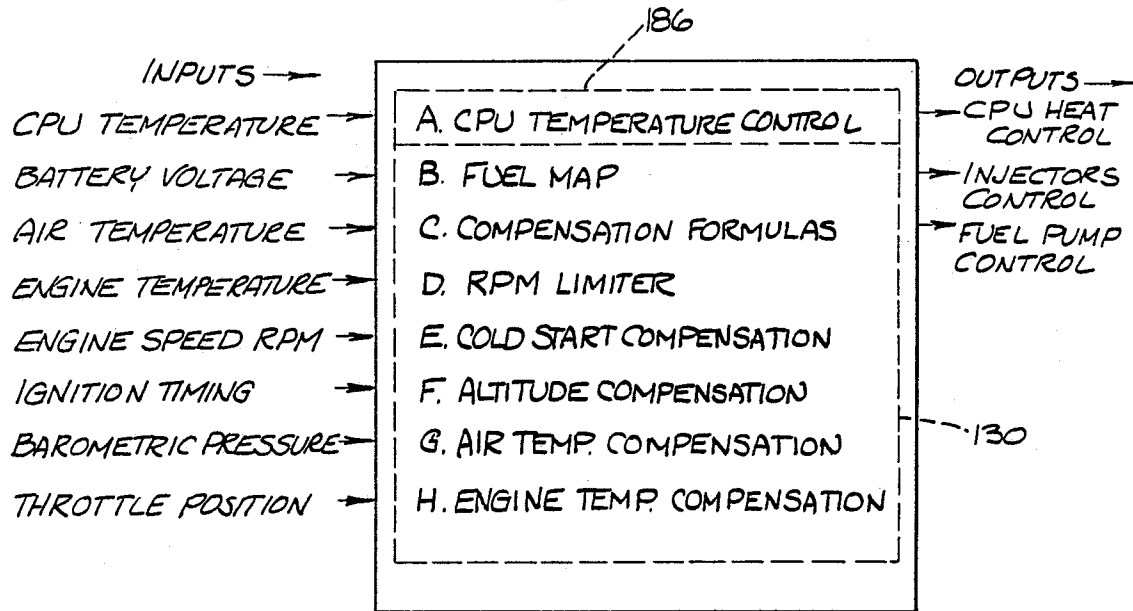


FIG. 4



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