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(54) **COOLING SYSTEM FOR ENGINE, AND ENGINE**

(57) The cooling system includes: a radiator passage 65 that runs through a radiator 70; a radiator-bypass passage 66 that bypasses the radiator 70; a first fluid temperature sensor SW4 that acquires a fluid temperature of an engine coolant flowing through a bore passage 63 for cooling a cylinder 11; a second fluid temperature sensor SW5 that acquires the fluid temperature of the engine coolant flowing through a head passage 64 for cooling a cylinder head 13; a thermostat valve 80 arranged in the radiator passage 65; a flow rate regulator valve 90 arranged in the radiator-bypass passage 66; and an ECU 100. While controlling actuation of the thermostat valve 80 on the basis of a detection result of the first fluid temperature sensor SW4, the ECU 100 controls actuation of the flow rate regulator valve 90 on the basis of a detection result of the second fluid temperature sensor SW5.

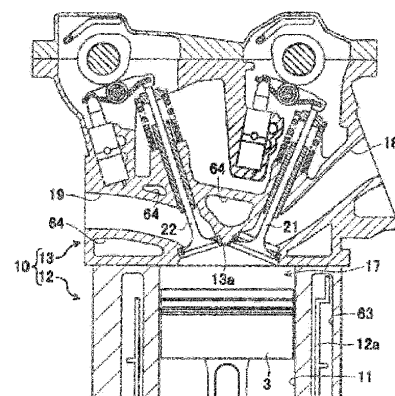


FIG. 2