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IPD.

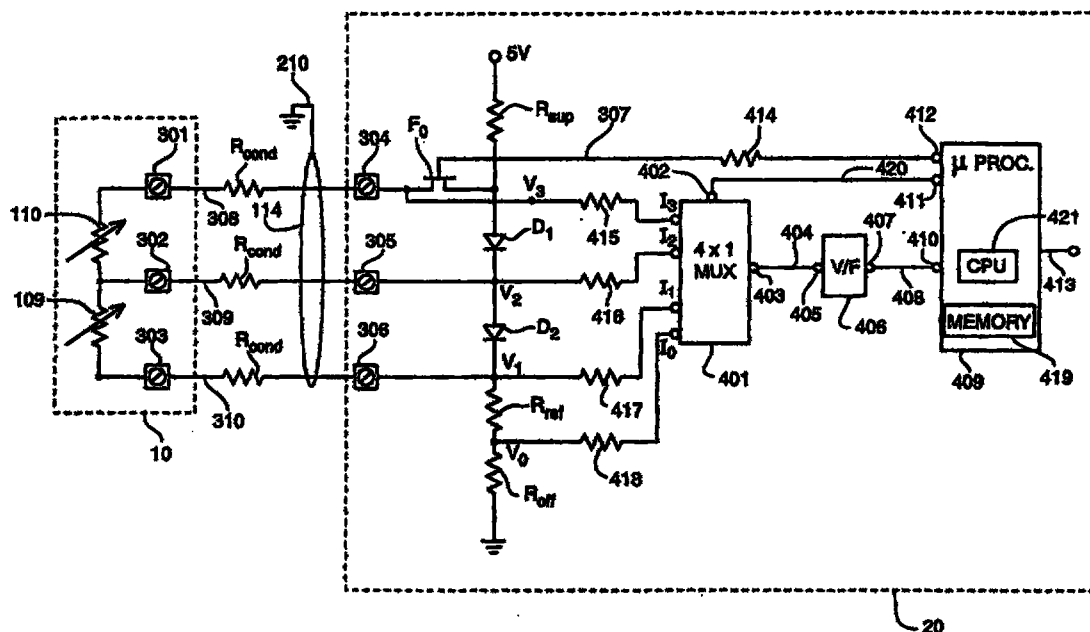
1 applⁿ, (CR = Colorado.)

2 INVS.

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(54) Title: MULTIPLE RESISTIVE SENSORS FOR A CORIOLIS EFFECT MASS FLOWMETER ✓



(57) Abstract

A circuit for utilizing multiple resistive sensors (109, 110) and in particular resistive temperature sensors while minimizing the number of conductors (308, 309, 310) necessary to measure the multiple sensors. The multiple sensors are connected in series and the voltage is measured at each node in the series connection of sensors. A switching device (F_0) then opens to remove one of the sensors from the voltage supply (5v) allowing a measurement to be made of the resistance of the conductor between the temperature sensors and a remote transmitter (20). The measured sensor resistances are then compensated with the measured conductor resistance to obtain a conductor-length compensated resistance for each of the multiple resistive sensors.