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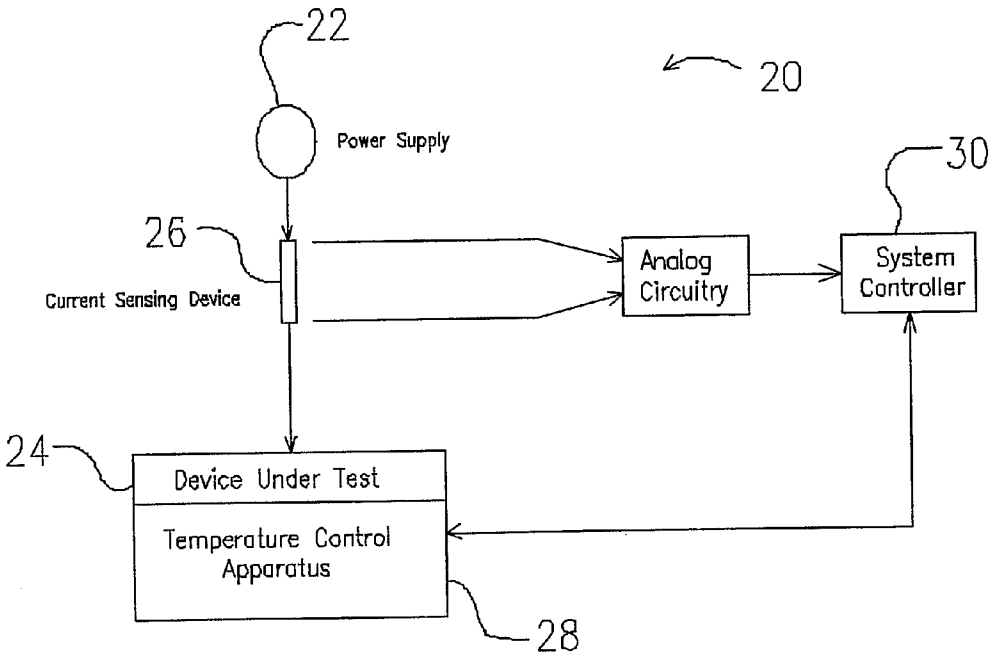
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(54) **Title:** TEMPERATURE SENSING AND PREDICTION IN IC SOCKETS



(57) **Abstract:** An apparatus and method are provided which preferably combines temperature sensing and prediction for more accurate temperature control of integrated circuits. An IC temperature sensing and prediction device (20) includes a current sensing device (26) that measures current passing through an IC (24), and a temperature control apparatus (28) that measures a surface temperature of the IC (24). The device further includes an electronic controller (30) that calculates the power consumed by the IC (24) according to the measured current and adjusts the temperature of a heater or cooler (28) responsive to the measured surface temperature and power consumption.

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