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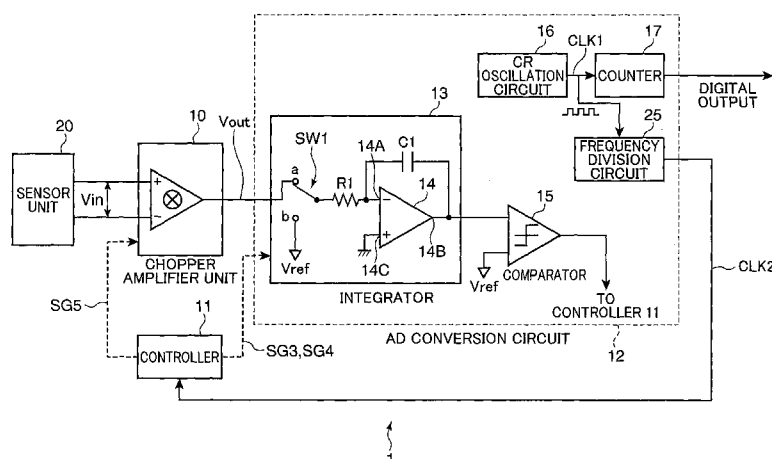
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(54) Title: SENSOR DEVICE

FIG.1



(57) **Abstract:** A sensor device is provided with a voltage detection type sensor unit for converting a physical quantity into a voltage value and outputting a voltage signal indicating the voltage value; a chopper amplifier unit for generating a modulation signal by chopping the voltage signal output from the sensor unit with a predetermined chopping frequency, amplifying the modulation signal into an amplification signal, then demodulating the amplification signal and outputting it as an output signal; an integration unit including an operational amplifier for amplifying a voltage difference between a voltage at a non-inverting input terminal and a voltage at an inverting input terminal, an input resistor connected to the inverting input terminal of the operational amplifier and a capacitor connected between the inverting input terminal and an output terminal of the operational amplifier and adapted to sample the output signal output from the chopper amplifier unit at a predetermined sampling frequency and integrate the sampled output signal; and a digital conversion unit for converting the output signal integrated by the integration unit into a digital signal.