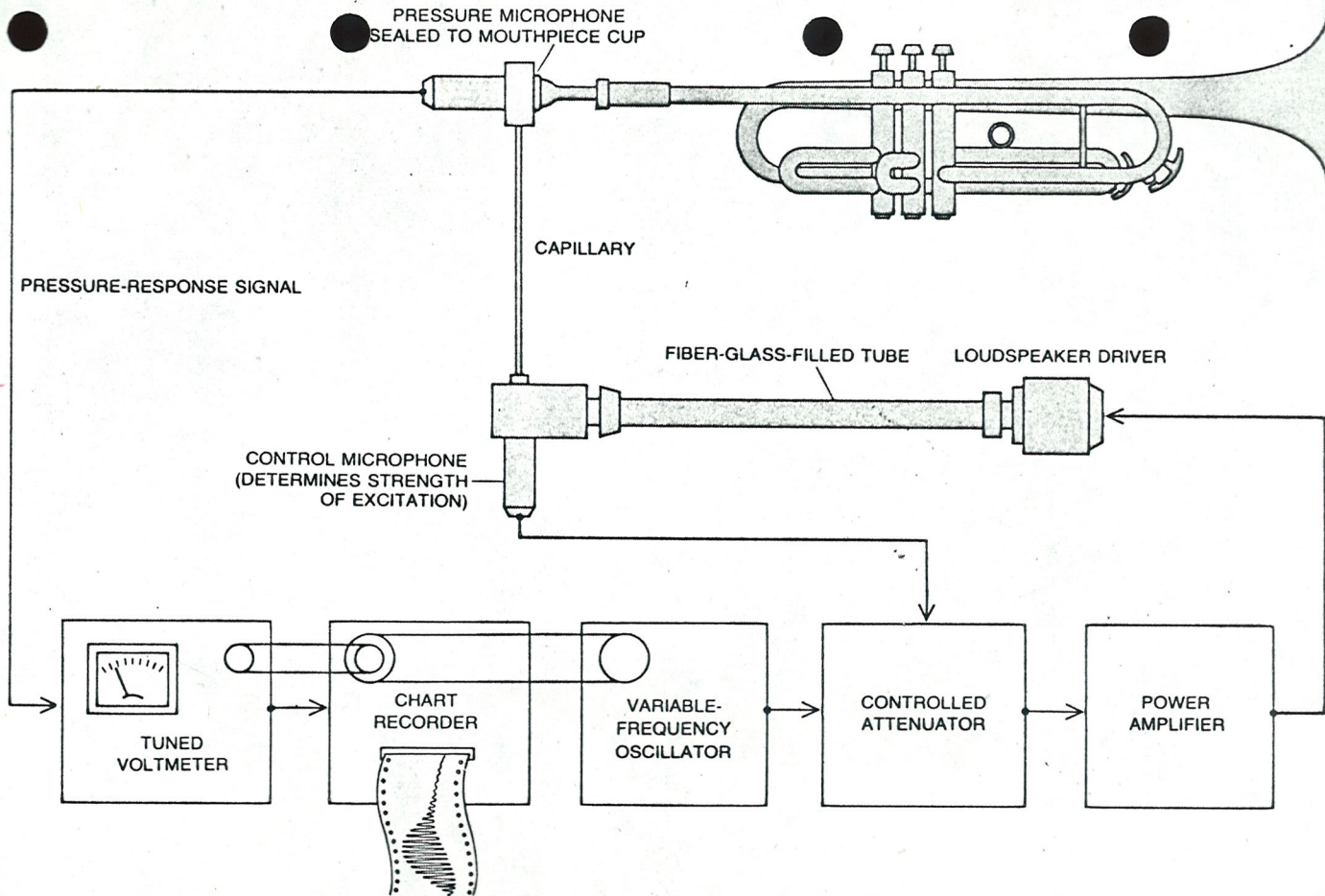


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IMPEDANCE-MEASURING APPARATUS uses the driver from a horn loudspeaker as a pump to feed a flow stimulus through a capillary into the mouthpiece cup of the instrument under study. A control microphone sends signals to an attenuator to ensure that the acoustic stimulus entering the capillary remains constant. The pres-

sure response of the instrument, and thus its input impedance, is detected by a second microphone that forms the closure of the mouthpiece cup. The signal from the microphone goes to a frequency-selective voltmeter coupled by a chain drive to oscillator. A chart recorder coupled to the voltmeter plots the resonance curve.