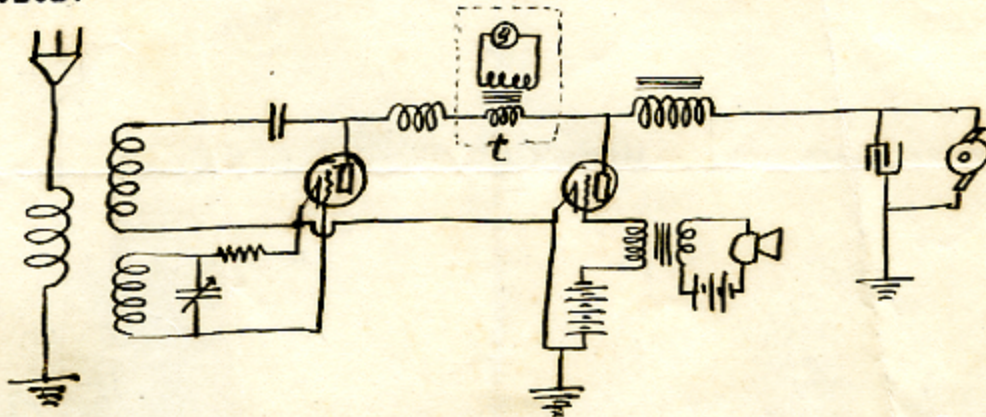


January 16th, 1922.

MODULATION INDICATOR FOR RADIO TELEPHONE TRANSMITTERS.

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A device to be connected in series with the plate input circuit of either the oscillator tube or the modulator tube in radio telephone transmitters, to show the audio frequent energy change in this circuit, and thus indicate the ~~total~~ energy of modulation.



The device consists of an audio frequency transformer, (with or without by-pass condenser across its primary terminals for any ~~xx~~ radio frequent oscillations), connected in series with the ~~xx~~ plate supply circuit of either the oscillator or modulator electron tubes; and of current indicating device^(g) such as thermo-couple galvanometer, hot wire galvanometer, or incandescent lamp, connected in series with the secondary circuit of the transformer. (t)

OPERATION

In

PRINCIPLE: \wedge Certain electron tube radiophone transmitting systems, the degree of modulation depends upon the amount of variation of the plate ~~xxxxxx~~ supply current, or results in a corresponding variation of this current. The device described measures this variation, without being affected by the total direct current supplied to the plate, or by ~~the~~ any radio frequent currents which may exist in the circuit.