RATING

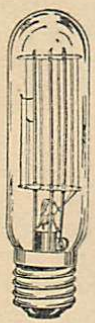
Rated Voltage	90 volts D.C.
Starting Voltage	125 volts D.C.
D.C. Current	10-50 milliamperes

DIMENSIONS

Maximum Overall Length	5⅝"
Maximum Diameter	2 3/16"
Base	Large CX

C-376 and C-386

LINE VOLTAGE REGULATOR



The C-376 and C-386 are "ballast" tubes designed to regulate the input voltage to the primary of power transformers. Either of these tubes when placed in series with a transformer primary of such design that 50 volts is applied to the tube, will maintain a constant current in the circuit. In this way a constant voltage is maintained on the load and the tube serves as a voltage regulator.

Circuit Recommendations

It takes several minutes for these tubes to heat up, the voltage drop increasing rapidly for the first three minutes and then slowly up to about ten minutes, by which time the tube has reached its final temperature. During this interval the voltage on the load will be slightly high, but will not exceed safe values, and thereafter the regulator tube will maintain the voltage practically constant.

As a matter of safety, these tubes should be housed in a metal covering that has proper ventilation.

The C-376 will regulate the primary transformer voltage on frequencies from 25 cycles to 60 cycles provided the transformer

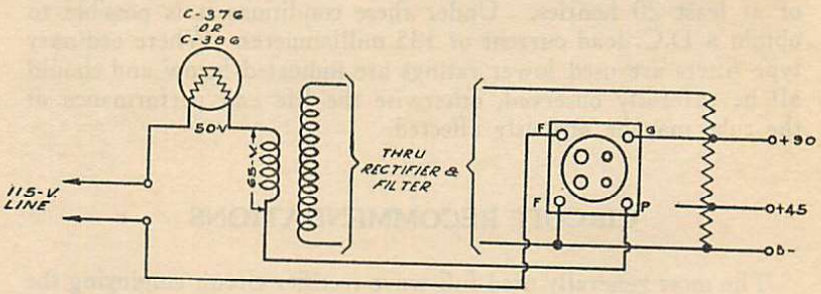
has been designed for the operating frequency and under load fulfills the above condition. Equipment designed for 60 cycles with the C-376 may be used on 40 cycle sources with the C-386.

RATING

	C-376	C-386
Operating Current	1.7	2.05 amperes
Voltage Range	40-60	40-60 volts

DIMENSIONS

Maximum Overall Length	8"	8"
Maximum Diameter	2 1/16"	2 1/16"
Base	Mogul	Mogul



BASE CONNECTIONS

FIG. 1