



## Used with the flying telephone

Western Electric's new 282A screen grid transmitting tube was designed to meet rigid specifications of flying equipment: compactness, mechanical strength, operating dependability under varying conditions of atmospheric pressure and power supply. It is ideal for amateurs' use — covering their entire frequency range.

Hard glass is used so that high energy dissipation and wide frequency range operation may be had without sacrifice of life. Terminal arrangement insures adequate insulation under all conditions. Low internal impedance and adequate emission from thoriated tungsten filament make possible higher power output at comparatively low plate voltages.

The screen grid eliminates delicate adjustments in changing operating frequencies. Complete modulation may be accomplished with relatively low audio power by varying screen grid bias.

Filament Voltage.....	10
Filament Current, Amperes.....	3
Average Plate Resistance, Ohms.....	70,000
Average Mutual Conductance, micromhos.....	1,430
Average Amplification Factor.....	100
Approximate Direct Interelectrode Capacities:	
Plate to Control Grid.....	0.2 Mmf.
Plate to Filament and Screen Grid.....	6.8 Mmf.
Control Grid to Filament and Screen Grid.....	12.2 Mmf.
Maximum Plate Voltage, D. C.....	1,000
Maximum Plate Current, D. C., Amperes.....	0.100
Maximum Plate Dissipation, Watts.....	70
Maximum Screen Grid Potential, Volts.....	250
Maximum Screen Grid Dissipation, Watts.....	5
Maximum Overall Length.....	6-15/16"
Maximum Diameter.....	2-7/16"

For booklet describing this and 25 other Western Electric tubes for amateur use, write to Graybar Electric Co., Graybar Building, New York, N. Y.

# Western Electric

RADIO TELEPHONE BROADCASTING EQUIPMENT

Distributed by GRAYBAR Electric Co.

## I. A. R. U. News

(Continued from page 40)

teurs, write us giving any other information which might prove useful.

### Special:

We give mention this month to "QSO," the official organ of the Reseau Belge. Appearing monthly, each issue contains sixteen large pages, well printed, with an attractive cream-colored cover. The subjects treated range from quite advanced technical information on current amateur practice to personal items, cartoons, and district notes. The President's Corner usually contains items of interest to international amateurs. The magazine is printed in French. The annual foreign membership of the Reseau Belge, which includes a subscription to "QSO," is 10 belgas, or about \$2.00 at current rates of exchange. The address is 33 rue Alphonse Renard, Bruxelles, Belgium.

## Ten-Meter Band Still Holding Up

(Continued from page 32)

to send a QSL card to the station heard, as well as reporting this reception to the Experimenters' Section, *QST*.

And still no signals have been reported from the west coast to any part of the U. S., and we are not certain that many stations are active in that part of the country. If this is the case we should certainly like to suggest that this is ideal experimental stamping ground for the W6 or W7 who has tired of fleetly QSOs on our popular bands for he will find 28 mc. to hold charm that other bands do not possess.

A report from W9FFQ just received mentions reception of W6CBQ with strength of R7 at 1:15 p.m. C.S.T. on July 26th.

### NEW HIGH FREQUENCY TUBES

Tubes which are between the "50-watter" and the 10 are being developed by several manufacturers. These tubes are essentially high-frequency tubes and will undoubtedly be about on the market when this issue of *QST* hits the field. The RK-18 which is the Raytheon addition is described elsewhere in *QST* and samples have been used at W1DF and W1SZ.

— C.C.R.

## Plate Supplies to Conform to the New Regulations

(Continued from page 13)

should all have equal capacities so the voltage will divide evenly across all units in the string. A further safety precaution is to shunt each one with a 500,000-ohm resistor, as shown in Fig. 3, to help out on equalizing voltages. The 1-watt