COSSOR 220 S.G.

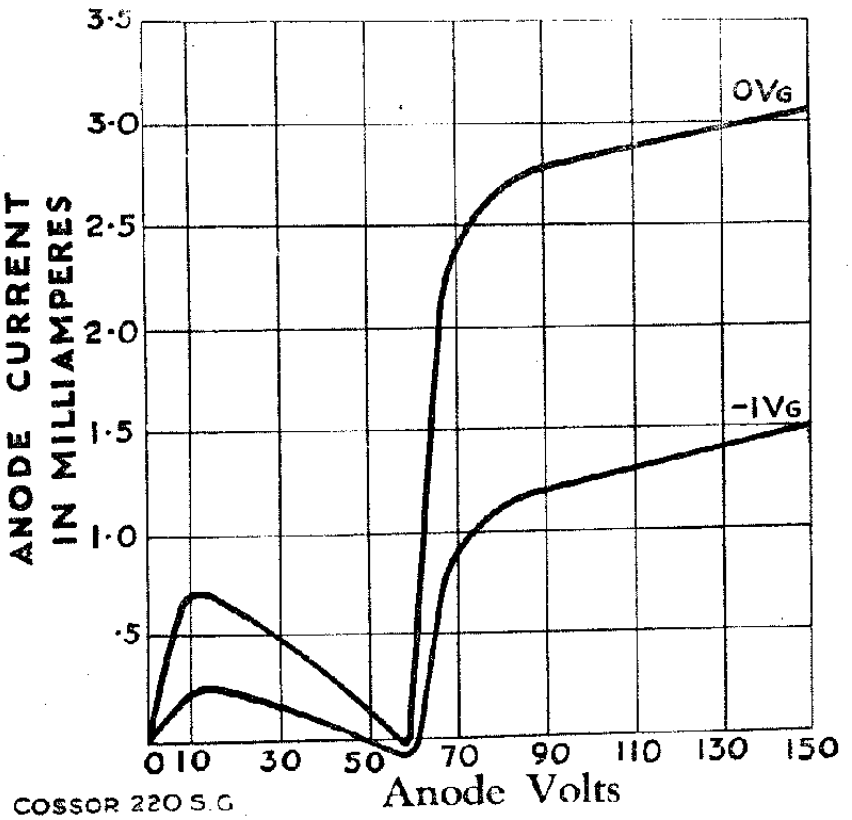
2-VOLT SCREENED GRID

The 220 S.G. is a very similar valve to the 215 S.G. but has a somewhat lower impedance and a higher mutual conductance. When used in conjunction with ordinary commercial coils, screened grid valves develop a gain which is proportional, in almost all cases, to the mutual conductance. Hence this valve is used in preference to the 215 S.G. where enhanced sensitivity is required. The same limitation applies to this valve and the 215 S.G. as to the 210 S.P.T. in that the signal handling capacity is limited owing to the straight characteristics. As a detector valve, however, it very definitely has its uses and, in addition, has many special laboratory uses. In particular it is very suitable as a dynatron oscillator in wave meters.

TECHNICAL DATA

For Super H.F. Amplification.	
Filament Voltage	2
Filament Current (Amps.)	·2
Impedance (ohms)	200,000
Amplification Factor	320
Mutual Conductance	1·6 m.a./v.
Inter-electrode capacity of the order of	·001 $\mu\mu$F.
Maximum Anode Voltage	150
Grid Bias for economy of H.T. current*	—1·5 v.
Anode Current (Va. = 150) grid return to L.T.—	3·1 m.a.
Anode Current (Va. = 150) —1·5 volt Grid Bias	·7 m.a.
Normal Working Anode Voltage	120
Positive Voltage on Screened Grid	60–80

*For maximum amplification use no grid bias.



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