

GEC - Experimental Magnetron #3



Probably this sample is what today survives of the Megaw's early experiments on CW cylindrical magnetrons with built-in grid, to directly modulate the RF output signal.

Anode is a cylinder 20 mm high by 10 mm in diameter. The grid is a spiral, perhaps made of nickel, about 2.5 mm in diameter and surrounds the filament. It goes to one of the two top pins, the other one being connected to the anode cylinder. The tube measures approximately 170 mm for a diameter of 35 mm. The electrode system is supported by rods anchored to glass stems.

Also for this sample the primitive construction details and above all the choice of a simple cylindrical anode suggest a date before 1935. We must remember that Megaw was basically a radio amateur with a passion for transmitting at very high frequencies.