

In the assembly bays of the Mullard factory grids and anodes are mounted on their supports and the filament threaded through the grid and secured in position, leaving the valve in the condition shown at the right hand side of Fig. 3.

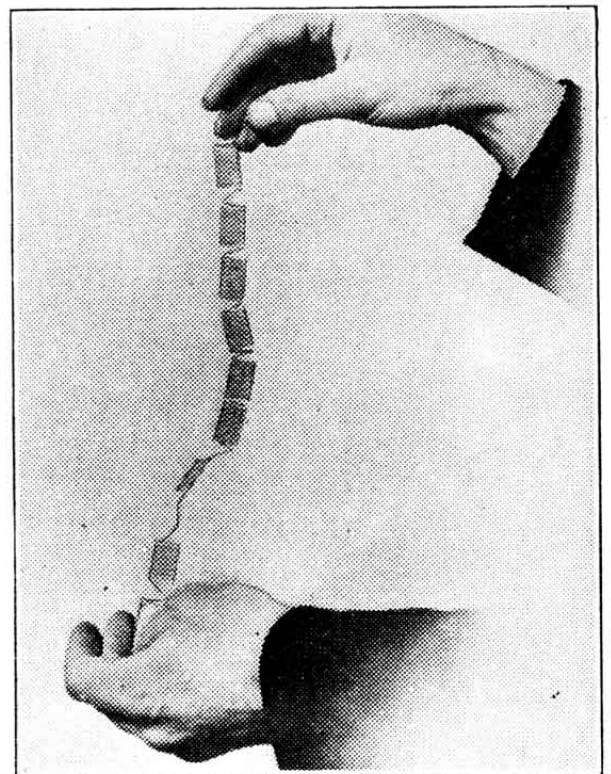


*Fig. 6*

In subsequent operations the valve is sealed in the bulb (Fig. 4), the air is withdrawn by powerful pumps, and the stemming tube sealed off. The valve base is next fitted and connected (Fig. 5) after which the electrodes are raised to a high temperature, causing the magnesium "getter," previously welded to the anode, to volatilise, thus removing the last trace of gas and perfecting the vacuum. During this process

also, the wonderful P.M. filament becomes activated by the deposition of special emissive material introduced at an earlier stage.

This very short summary of valve manufacture would not be complete without reference to the numerous inspections and routine tests carried out on every valve during its journey through the factory and the stringent final test which each Mullard valve must pass before it is allowed to leave the factory, thus ensuring that every Mullard valve is indeed a Master Valve.



*Fig. 7*