

MAKING TUBES IS EASY..

It YOU KNOW HOW!

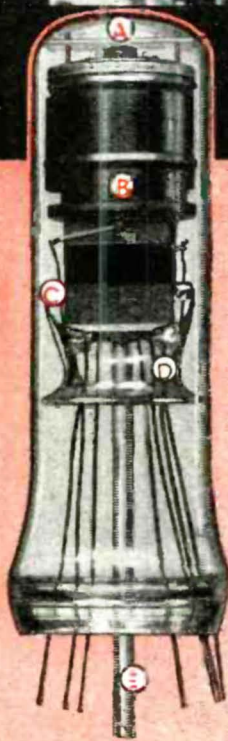
GLASS—FLAME—SEAL

Glass — flame — seal. Sounds easy. Just slip a glass bulb down over the mount assembly. Then by cleverly directed gas flames seal bulb and stem flare together.

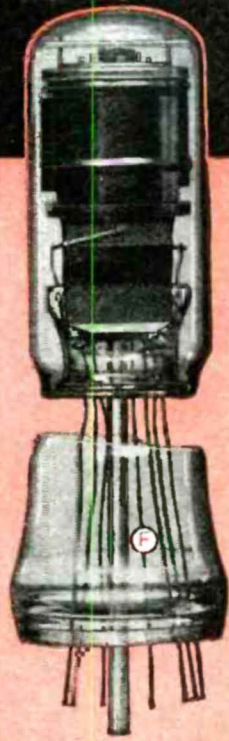
Yes, there is a catch in it. A directed flame applied to glass may cause severe thermal shock. Local expansion and contraction then result in strain or fracture. Such thermal shock must be avoided by gradually raising the temperatures of both bulb and stem before hitting them with intensely hot flames. Without scientific control, permanent strains would be set up which might cause cracks — immediately or at some future time. The finished tube would become an "air leaker" and useless.

As this multihead rotary sealing machine indexes, fingers of gas flame — mixed with air delicately proportioned to achieve the proper temperature — warm, shape, and seal bulb to flare. Because it is shielded from the flames by the bulb, the stem is preheated before loading. This preheat temperature is maintained throughout sealing by hot air blown up under the flare. The continual stream of hot air also shapes the seal. Concentrated flames cut off the bulb cullet. In high speed operations, the sealing and subsequent exhaust operations are performed on the same machine.

A precision machine carefully controlled by the glass expert makes this working with glass easy. Gives you a combination which assures you once again of trouble-free performance from your Hytron tubes.



A Outer bulb
B Mount
C Stem
D Flare
E Exhaust tube



Sealed-in mount ready for exhaust. Cullet (F) cut off by gas flames is discarded.



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RADIO AND ELECTRONICS CORP.

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