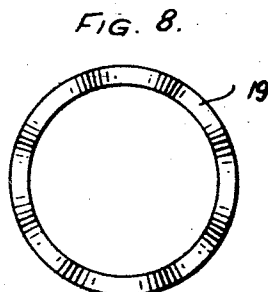
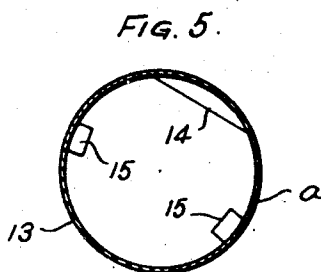
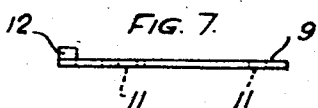
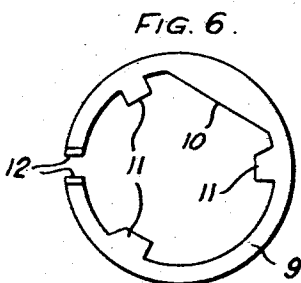
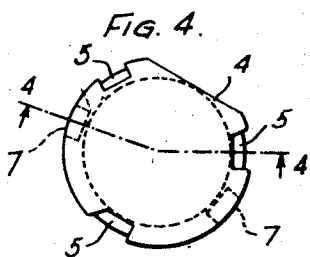
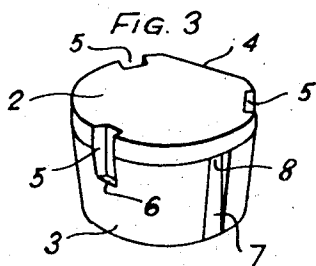
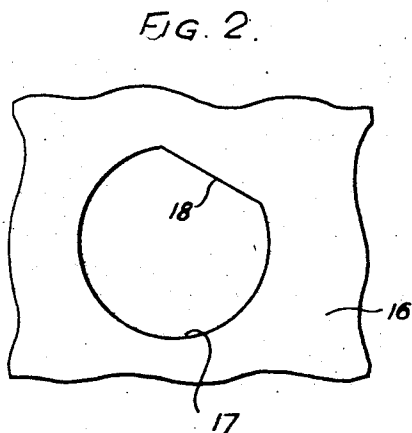
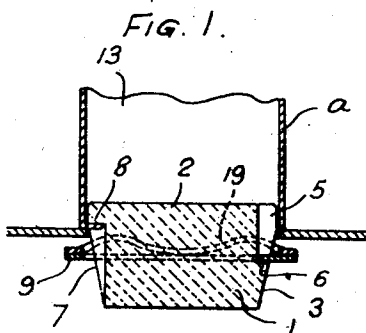


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HOLDER FOR THERMIONIC VALVES AND
OTHER ELECTRICAL DEVICES
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OTHER ELECTRICAL DEVICESGeorge Wagstaff, Long-Eaton, England, assignor
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3 Claims. (Cl. 174—35)

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This invention relates to holders for thermionic valves, plugs and other electrical devices and more particularly to solid moulded holders made of ceramic or other material.

Valve holders at present in general use are provided with an integral flange adjacent to one end which is adapted to rest on one side of an apertured chassis plate or like support. It is an object of the present invention to dispense with this flange and thereby cheapen the cost, the holder having means whereby it may be readily secured to an apertured support.

According to the present invention the holder comprises a body adapted to fit within an aperture in a support, the peripheral wall of the body being provided with axially spaced abutments adapted to be engaged by locking members fitted over or around the body from the upper and underface respectively of the support to secure the holder thereto.

The abutments may comprise the end walls of grooves formed in the peripheral wall of the body of the holder.

To enable the invention to be fully understood it will now be described with reference to the accompanying drawing, in which:

Fig. 1 is a sectional view of a thermionic valve holder on the line 4—4 of Fig. 4, mounted in an apertured supporting panel,

Fig. 2 is a plan view of the panel.

Fig. 3 is a perspective view of the valve holder,

Fig. 4 is a plan view of the holder,

Fig. 5 is a plan view of the lower half of a two-part screening can,

Figs. 6 and 7 show plan and side views of a locking ring, and

Figs. 8 and 9 show plan and side views of a resilient spacing washer.

As shown in the accompanying drawings, the valve holder comprises a body 1 free of projecting flanges. The upper face 2 of the holder normally has recesses (not shown) for housing pin-receiving contacts. The recesses and contacts are omitted from the drawings for the sake of clarity. The body 1 is of frusto-conical shape, or it may be substantially cylindrical, and has a peripheral wall 3, formed with a flat 4 whereby the body is D-shaped in cross-section. Three equally spaced grooves 5 extend from the upper face 2 along part of the axial length of the holder and have end walls 6. Two other grooves 7 extend from the underface of the holder axially of the body and terminate in end walls 8. It will be observed that the grooves 5 and 7 are correlated so that the end walls 6 and 8 form two series of

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rows of abutments spaced apart axially of the body 1.

One form of locking ring for securing the holder to the supporting panel 16 is shown in Figs. 6 and 7, and comprises a split metal ring 9 having a flange 10 for engaging the flat 4, and inwardly projecting lugs 11 and upturned portions 12. This locking ring is adapted to engage the series of abutments 6 adjacent to the underface of the holder. The locking member for engaging the abutments 8 adjacent to the upper face 2, is formed integrally with the lower half *a* of a two-part metal screening can. The can *a* comprises a cylindrical wall 13 having a D-shaped projecting flange 14 and two inwardly extending lugs 15.

To mount the holder on the panel 16, the body 1 is first inserted into the screening can part *a* with the edge of the flange 14 engaging the flat 4 on the body, and the lugs 15 entering the grooves 7 and engaging the end walls 8. The portion of the body depending from the screening can is then inserted into the D-shaped aperture 17 in the panel, the edge 18 engaging the flat 4 and ensuring the holder is correctly located. A resilient metal washer 19 is fitted over the lower end of the body 1 and the locking ring 9 is then sprung over the body to snap the lugs 11 into the grooves 5 to engage the end walls 6. The edge of the flange 10 registers with the flat 4 on the body 1 and ensures correct registration. To remove the holder the ring 9 is opened by forcing the portions 12 apart to permit the lugs 11 being disengaged from the grooves 5.

I claim:

1. A holder for thermionic valves and like electrical devices comprising a body adapted to fit within an aperture in a support, the peripheral wall of said body having two sets of axially spaced abutments, a locking ring disposed around said body on one side of said support having projections engageable with one set of said abutments and a screening member disposed around said body on the other side of said support having elements engageable with the other set of said abutments whereby said locking ring and said screening member cooperate to secure said holder to said support.

2. A holder for thermionic valves and like electrical devices comprising a body adapted to fit within an aperture in a support, the peripheral wall of said body having two sets of axially spaced abutments, a locking ring disposed around said body on one side of said support having projections engageable with one set of said abutments, and a screening can of greater diameter than

the aperture in said support disposed around said body on the other side of said support, said can having inwardly extending elements engageable with the other set of said abutments whereby said locking ring and said screening can cooperate to secure said holder to said support.

3. A holder for thermionic valves and like electrical devices comprising a body adapted to fit within an aperture in a support, said body having a peripheral wall, an upper face and a lower face, said peripheral wall having two sets of axially extending grooves, the grooves of one set extending from abutments adjacent said upper face and intersecting said lower face, and the grooves of the other set being disposed intermediate those of said one set, extending from abutments axially spaced below those of said one set and intersecting said upper face, a closed ring member for engaging the upper surface of said support having projections engaging the abutments of said one set, and a split-ring lock-

ing member for engaging the lower surface of said support having projections engaging the abutments of said other set, whereby said closed-ring member and said split-ring locking member cooperate to secure said holder to said support.

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