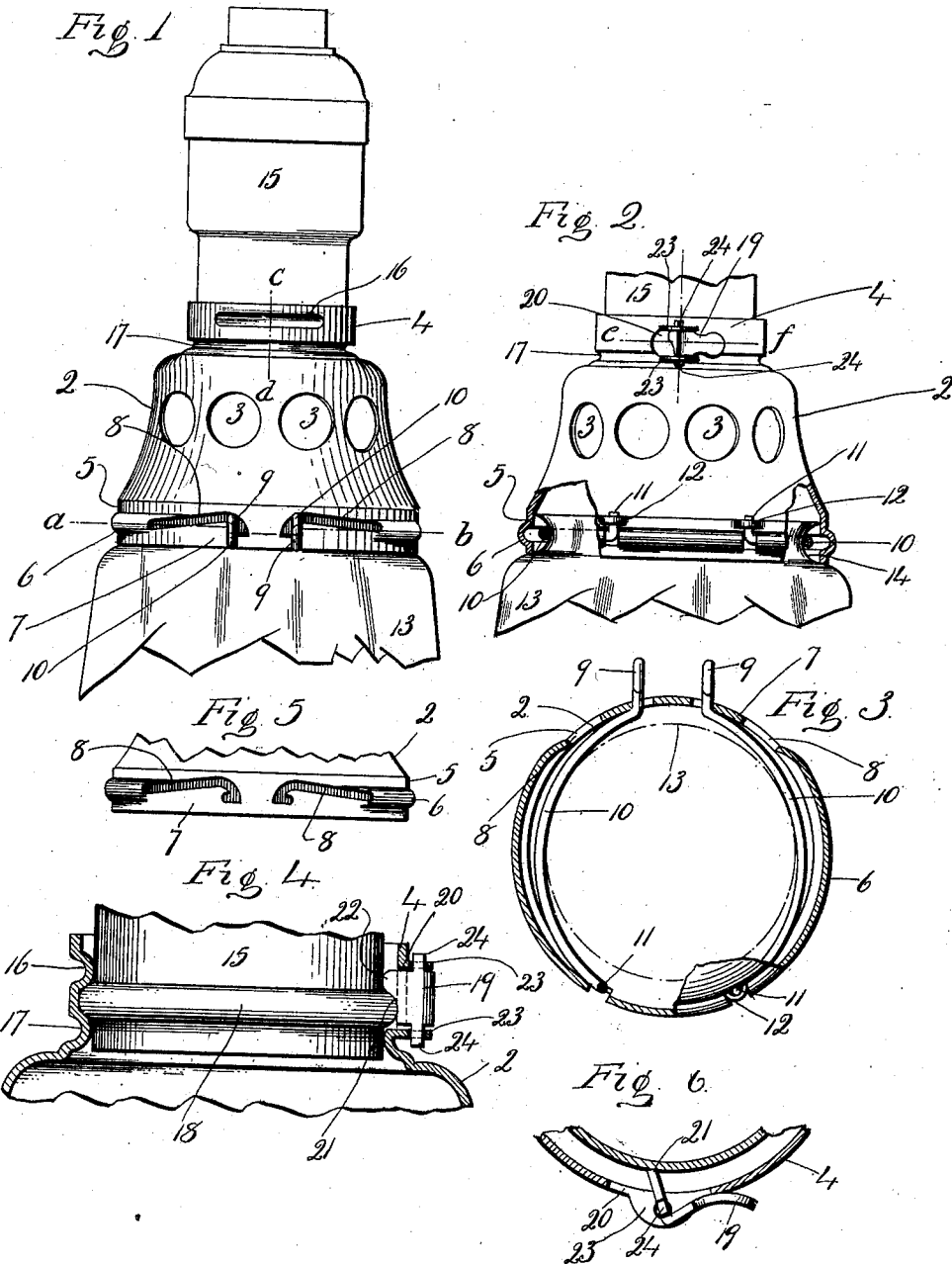


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SHADE HOLDER.
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983,457.

Patented Feb. 7, 1911.



Witnesses
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SHADE-HOLDER.

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To all whom it may concern:

Be it known that I, WALTER H. PERKINS, a citizen of the United States, residing at Cheshire, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Shade-Holders; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a view in front elevation of a shade-holder constructed in accordance with my invention and shown as applied to a lamp-socket and supporting a shade. Fig. 2 a broken view thereof in rear elevation, portions of the shell being broken away to show how the shade is held by the clamping-wires, and the socket being broken away. Fig. 3 a view in horizontal section on the line *a—b* of Fig. 1. Fig. 4 a view in vertical section on the line *c—d* of Fig. 1. Fig. 5 a broken view in front elevation of the lower end of the shell of the holder showing the bayonet-slots formed therein for the projecting ends of the clamping-wires. Fig. 6 a broken enlarged view in horizontal section on the line *e—f* of Fig. 2.

My invention relates to an improvement in shade-holders designed in particular for use in conjunction with that class of incandescent electric lamps known as "tungsten" lamps, the object being to produce a simple and convenient shade-holder of the character described.

With these ends in view my invention consists in a shade-holder having certain details of construction as will be hereinafter described and pointed out in the claims.

In carrying out my invention as herein shown, I employ a flaring sheet-metal shell 2 having a band of circular openings 3 and formed at its upper end with a socket-receiving collar 4, and at its lower end with a flange 5 stiffened by a broken circumferential corrugation 6 the ends of which terminate in a plain surface 7 formed with two bayonet-slots 8 provided for the forward projection through them of the finger-pieces 9 of two clamping-wires 10 bowed outwardly with respect to each other and having their opposite or rear ends hinged in place by being bent upward to form pintles

11 entered into sockets produced by cutting and displacing the metal of the shell so as to form loops 12. It will be noted that the clamping wires 10 are located in the horizontal plane of the corrugation 6 and that the outer ends of the respective bayonet-slots 8 merge into the ends of the said corrugation. The said wires 10 are bowed in a long sweep from their inner ends where the same are fastened to the shell 2, to their finger-pieces 9, so that the wires will grip virtually throughout their length. When the wires 10 are separated from each other by allowing their outer ends to travel into the outer ends of the bayonet slots 8, the outwardly bowed inner portions of the wires are sufficiently far apart to permit the introduction of the upper end of the shade 13 between them after which the wires are drawn together by their finger-pieces 9 which are then pressed downward and engaged with the curved adjacent ends of the bayonet-slots 8, the wires in this way being drawn into and held in the circumferential groove 14 in the upper end of the shade which is thus firmly held in place until released by springing the wires slightly and then lifting their finger-pieces 9, whereby the wires are disengaged from the curved inner ends of the slots 8 and allowed to separate, which permits the shade to be disengaged from them. As already stated, the wires 10 are bowed so as to grip the shade not at points but throughout their length. This secures the shade firmly and prevents any tendency to rattle and reduces the tendency to break the shade.

The particular means employed for securing the shell 2 to the lamp-socket 15 may be varied as desired. As herein shown the shell is provided with a socket-receiving collar 4 having an inwardly projecting horizontal holding-rib 16 located above a circumferential inwardly projecting knurl 17 formed between the upper end of the body of the shell and the collar 4. The outwardly projecting bead 18 upon the lower end of the socket 15 having been hooked, so to speak, between the rib 16 and knurl 17, is locked in place by means of a lever 19 located in an opening 20 formed in the collar 4 at a point directly opposite the rib 16, the said lever being furnished with an inwardly projecting clamping edge 21 and with trunnions 24 passing through perforated horizontal

ears 23 bent outward from the upper and lower edges of the opening 20. After the socket has been entered into the collar 4 and positioned therein so that the lower edge of its bead 18 has been brought to a bearing upon the knurl 17 at which time a portion of the upper edge of the bead 18 will have been caught, so to speak, under the holding rib 16, the lever 19 is swung into position in which it is shown by Fig. 6, whereby the socket is crowded in the direction of the rib 16 and clamped in place, being held on the one hand by the said rib, and on the other hand, by the finger 22 formed upon the clamping edge 21 and riding over the upper edge of the bead 18 as clearly shown in Fig. 4. I would have it distinctly understood, however, that other means than those just now described, may be employed for securing to the socket a holder having any clamping wires 10.

I claim:—

1. In a shade-holder for incandescent lamps, the combination with a shell formed at its lower end with a flange provided with a circumferential corrugation located in the plane of the bottom of the shell and having its ends separated in front by a plain portion of the flange in which plain portion are located two bayonet-slots extending in opposite directions and merging at their outer ends into the ends of the said corrugation;

of two clamping-wires located within the said flange in the plane of the said circumferential corrugation and having their outer ends projected through the said bayonet-slots in which the wires are manually operated for clamping and releasing the lamp shade introduced between them, and the said wires being bowed in a long continuous sweep from their outer to their inner ends and having their inner ends turned at a right angle to form pivots by which they are pivotally connected with the said flange at a point therein substantially opposite the said bayonet-slots.

2. In a shade-holder for incandescent lamps, the combination with a shell provided at its upper end with a socket-receiving collar having an inwardly projecting holding-rib and an inwardly extending circumferential knurl; of a clamping-lever mounted in the said collar at a point therein opposite the holding-rib, the said rib, knurl and lever operating in conjunction with a circumferential bead formed upon a lamp-socket to fasten the holder thereto.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

WALTER H. PERKINS.

Witnesses:

GEORGE L. PAGE,
HENRY F. GOETZ.