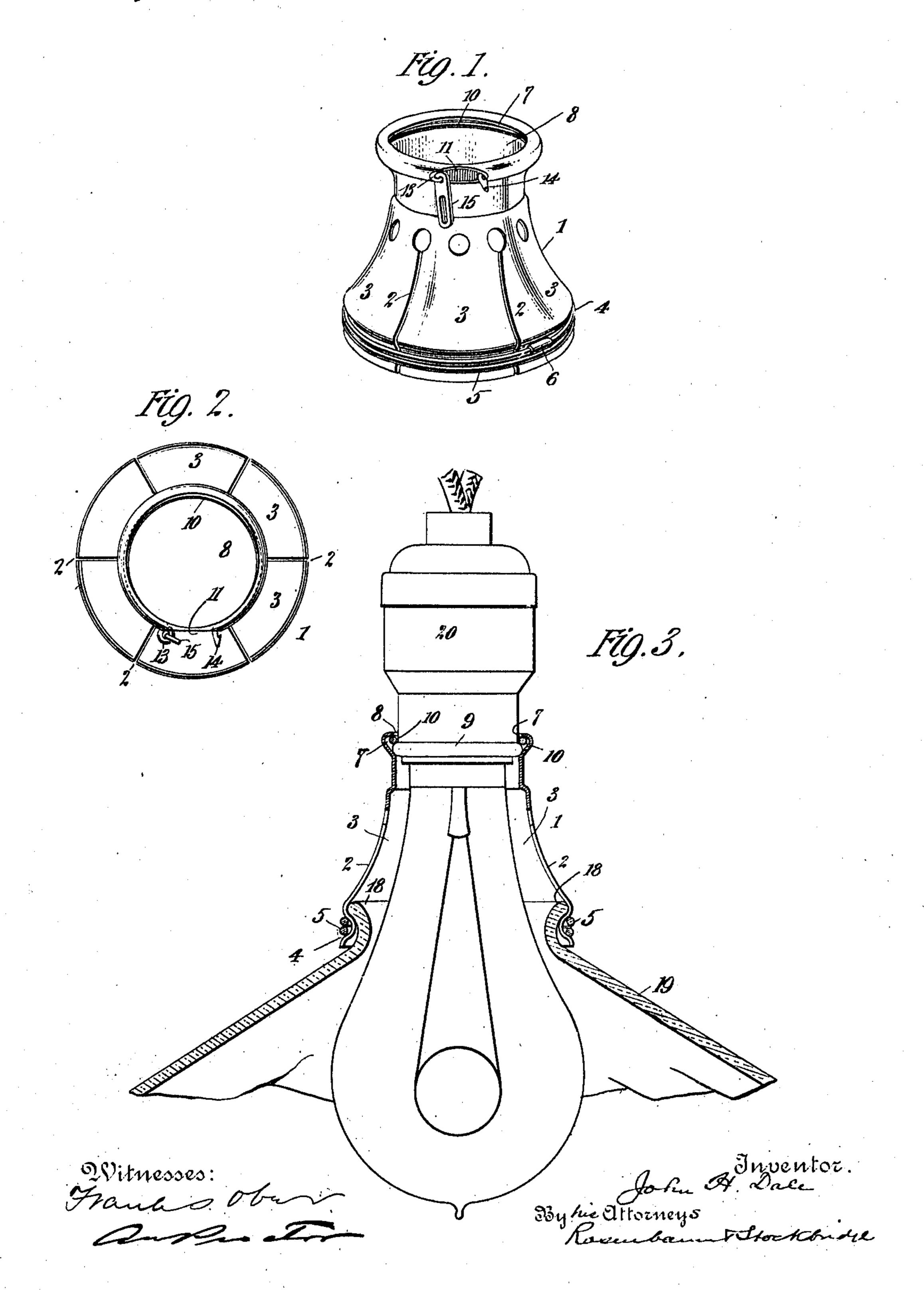
J. H. DALE. SHADE HOLDER.

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UNITED STATES PATENT OFFICE.

JOHN H. DALE, OF NEW YORK, N. Y.

SHADE-HOLDER.

970,804.

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To all whom it may concern:

Be it known that I, John H. Dale, a citizen of the United States, residing at the latter owing to the plurality of convolutions. city of New York, in the borough of Manhattan and State of New York, have invented certain new and useful Improvements in Shade-Holders, of which the following is a full, clear, and exact description.

My invention relates to shade holders for incandescent electric lamps, the object being to provide a cheap and efficient form of shade-holding device adapted to be applied directly to the casing of an ordinary lamp

socket.

In my prior Patent No. 803,883, a comstruction for the above purposes is shown, making use of a wire ring inclosed in a spiral or coil spring. This construction gives an elastic or yielding engagement between the 20 lamp socket and the shade. The construction shown in my Patent No. 936,421 also provides a yielding support for the shade holder. In the present application I provide a shade holder having a wire ring | the lamp socket, as shown in Fig. 3. When 80 ²⁵ which can be locked to form an absolutely rigid and unyielding connection with the lamp socket. The present invention also includes a novel method of supporting the lamp shade from the shade holder.

In the drawings: Figure 1 is a perspective view of a shade holder embodying the principles of my invention; Fig. 2 is a plan view of the same, and Fig. 3 is a sectional view showing the shade holder in use.

Referring to the drawings in which like parts are designated by the same reference sign, 1 designates the body of the shade holder conveniently made of sheet metal spun into a generally conical form and hav-40 ing an internal reflecting surface. The lower flaring portion of the body 1, is vertically slotted at a plurality of equally spaced apart points 2 around its circumference so as to form a corresponding number 45 of resilient tongues 3. At its lower side the body 1 has a groove 4 in which is received a double spiral spring ring 5.

6 denotes a strap for joining one convolution of the spring 5 to a tongue 3 of the body 1. The tension of the spring ring 5 and the plurality of convolutions employed impart a considerable resistance against the outward deflection of the tongues 3. This resistance is due not only to the resiliency of the wire, but also to the friction, it being | the opening 8. As the nature of the hasp

gential displacement of the rings on the tongues in case of outward deflection of the

At its upper end the body 1 is beaded to 60 form an interior groove 7 with an adjacent opening 8 of sufficient size to admit the usual bead 9 of a lamp socket, within or be-

low such groove 7.

10 denotes a ring formed of metallic wire 65 bent into nearly, but not quite complete circular form and inclosed in the groove 7. At one side an aperture 11 is provided in the body 1, to communicate with the groove 7, and the extremities of the wire 10 are de- 70 flected at 13 and 14 to project through this aperture 11. One extremity 13 is bent to form an eye, while the other extremity 14 is bent and formed into a sort of hook or latch.

15 denotes a hasp pivoted to the eye 13 75 and adapted to coöperate with the hook or latch 14. The hasp 15 when engaged over. the hook 14, draws the ring 10 into restricted relation, so that it closes over the bead 9 of the hasp 15 is released, the ring 10 expands and the shade holder is freely removable. from the lamp socket. While I have described this particular means of joining the free ends of the ring 10 together when de- 85 sired, I do not desire to be limited or restricted thereto, as any positive means for detachably connecting the ends of the ring 10 in rigid unyielding engagement, will serve in lieu thereof.

The use and operation will be obvious from the foregoing description. It is merely necessary to push the shade holder 1 over the usual flanged rim 18 of an ordinary shade 19, the tongues automatically clasping 95 themselves into firm engagement, impelled by the resiliency of the double spiral ring 5. The shade holder 1 is then pushed onto the usual lamp socket 20, as already described, so that the bead 9 is within the groove 7 100 of the shade holder and below the plane of the ring 10. The projecting ends of the ring 10 are then drawn together through the recess 11 by means of the hasp 15. When the latter has been forced over the hook 14, 105 the ring is restricted to a perfectly definite. and unchanging diameter or size, which is small enough to prevent withdrawal of the bead 9 therethrough and which is large enough to preclude its own passage through 110 evident that there is a considerable tan- 15 is positive and unyielding, and the ring

itself is of rigid wire, these dimensions are not susceptible of change except within negligible limits, so that a fixed positive engagement of the shade on the lamp socket is 5 secured. The parts are readily detachable whenever desired, however, by a simple manipulation.

What I claim, is:

1. A shade holder having an interior 10 groove at its upper end, a ring interrupted on one side and received in said groove, and means for rigidly joining together the free

ends of said ring.

2. A shade holder having an interior 15 groove at its upper end with an adjacent opening to receive a lamp socket, a ring interrupted on one side and received in said groove, and means connected to one end of said ring and adapted to be connected to the 20 other for rigidly joining together the free ends of said ring to constrict the same to a size insufficiently small to pass through said opening, but sufficiently small to positively clasp the lamp socket.

25 3. A shade holder having an interior

groove at one end, a ring interrupted on one side and received in said groove, means for rigidly joining together the ends of said ring within said groove, said groove having an aperture to expose the ends of said ring and 30 said means.

4. A shade holder having an interior groove at one end, a ring interrupted on one side and received in said groove, the ends of said ring projecting through the wall of 35 said shade holder, and a hasp for rigidly joining together the ends of said ring.

5. A shade holder having an interior groove at one end, a ring interrupted on one side and having an eye and an outwardly 40 bent hook at its free ends, said eye and said hook projecting through the walls of the shade holder, and a hasp pivoted to said

eve and adapted to engage said hook.

In witness whereof, I subscribe my signa- 45 ture, in the presence of two witnesses. JOHN H. DALE.

Witnesses: WALTER I. HESS, H. S. SALT.