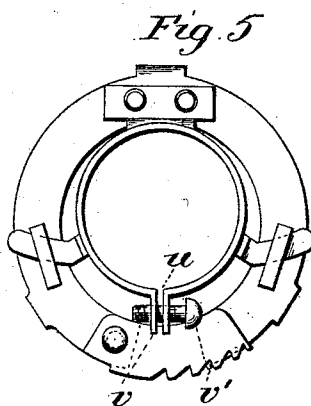
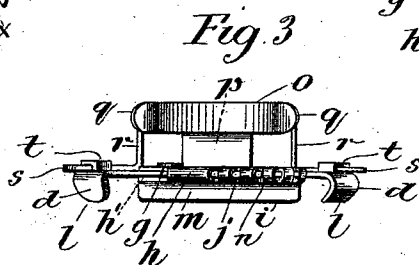
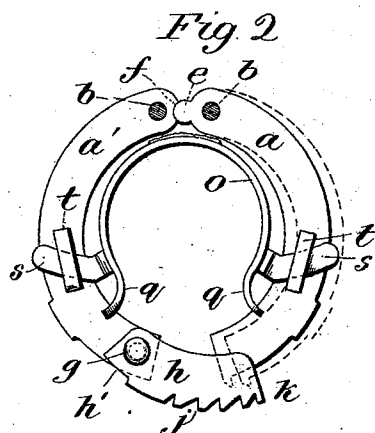
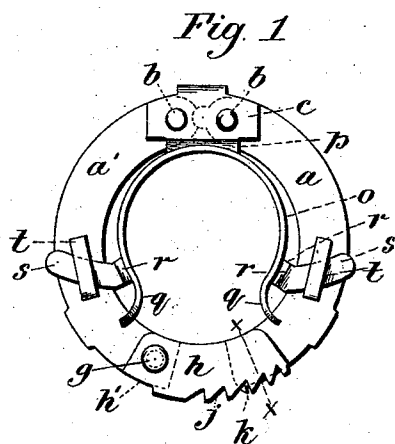


(No Model.)

N. W. CRANDALL & E. A. RUSSELL.
SHADE HOLDER.

No. 528,288,

Patented Oct. 30, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

NATHAN W. CRANDALL, OF MERIDEN, AND EDGAR A. RUSSELL, OF
WALLINGFORD, CONNECTICUT.

SHADE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 528,288, dated October 30, 1894.

Application filed September 11, 1893. Serial No. 485,264. (No model.)

To all whom it may concern:

Be it known that we, NATHAN W. CRANDALL, of Meriden, and EDGAR A. RUSSELL, of Wallingford, in the county of New Haven and State of Connecticut, have invented a new Improvement in Shade-Holders; and we do hereby declare the following, when taken in connection with 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 plan view of the preferred form of the device; Fig. 2, a similar view, with the coupling-plate taken away, and showing the connector-plate or gate swung outwardly and the size of the ring about to be adjusted; Fig. 3, a side elevation; Fig. 4, a section on line $x-x$, showing more clearly the shape of the connector-plate or gate; Fig. 5, a plan view of a modification.

Our invention relates to improvements in shade-holders, especially designed for application to incandescent lamps, and its object is to furnish a shade-holder with means for accommodating shades of various sizes and to provide a substantial, effective and simple device for that purpose.

To these ends our invention consists in a shade-holder having a shade-ring adjustable in size, and provided with means for attaching it to a lamp.

Our invention also consists in certain details of construction and combinations of parts to be hereinafter fully described and then claimed.

In the principal form of our invention as shown in Figs. 1, 2, 3 and 4, the shade-ring is shown as comprising two curved or semicircular jaws a, a' , hung or pivoted on two contiguous pins or rivets b , projecting from a coupling-plate c which connects the jaws at their rear or hinged ends and covers the joint thereat. Fingers l project down from the outer edges of the jaws of the ring and form supports for the shade which they clasp. The contiguous hinged ends of the jaws a, a' , are connected for effective and simultaneous movement of the jaws by means of a rounded projection or toe e on the jaw a which is received within a complementary recess f in

the jaw a' . Pivoted at g at its inner end on the forward end and on top of the jaw a' is a curved connector-plate or gate h , in the downturned flange i at the front edge of which is formed a series of sockets or holes j adapted to receive a catch or tooth k projecting from the outer edge of the jaw a at the front end. The connector-plate or gate h is notched at h' adjacent to its pivot g in order to receive the edge of the jaw a' and permit said plate to be swung outwardly on its pivot.

When it is desired to insert a shade so as to be engaged by the downwardly and inwardly curved retaining lugs or fingers l of the shade-ring the jaws a, a' are separated as much as it is necessary, the shade inserted, and the jaws closed upon it. The connector-plate or gate h is then swung inwardly on its pivot so as to cause one of its sockets or holes j to receive the catch or tooth k , whereby the shade is held in position within the shade-ring. The provision of a series of sockets or holes j enables the shade-ring to be set to its adjusted position when the catch or tooth k is received by one of them. The lower portion m of the flange i is set in from the upper or perforated part thereof, whereby a recess n is formed to the rear of the sockets or holes j , wherein the front edges of the jaws are received when the connector-plate or gate is closed onto them.

When a shade is in position, its top edge fits within the fingers l , but the portion m of flange i is received inside thereof.

Having described the preferred form of shade-ring, we will now describe the form of supporting-clasp or device preferred to be used therewith and which fits onto a lamp. This consists of a substantially U-shaped or curved spring-metal strip o parallel with the shade-ring and supported therefrom at the rear by means of an arm p extending up from the coupling-plate c . The free outer ends q of this substantially U-shaped strip which forms the supporting-clasp, are curved or bent outwardly, and projecting downwardly therefrom are pendants r provided with laterally and oppositely extending curved feet s , which engage and move upon the upper side of the shade-ring, whereby the forward portions of the said supporting clasp are held

from downward displacement. The feet *s* are received within arched guides *t* secured to the top of the shade-ring, whereby they are guided as the ends of the supporting-clasp are spread apart or moved together, which is caused by sliding the shade-holder laterally onto the lamp or other device adapted to receive it. This supporting clasp or device is not claimed herein but is made the subject of an application filed September 11, 1893, and serially numbered 485,265.

In Fig. 5 like parts are indicated by the reference letters applied to the described form. The only difference herein is that the supporting-clasp is shown of the usual form and instead of the ends being bent as in the said described form they are continued so that they meet at *u* and thus impart to the clasp a circular conformation. Lugs *v* project outwardly from the free ends of the clasp and are perforated to receive the usual binding or tightening screw *v'*.

We are aware that a lamp-shade holder consisting of a shade-ring and a clamping or supporting-ring, the two rings being located in the same plane, and the shade-ring being adjustable, is old. We are also aware that it is old in the arts to use a bowed clasp provided with a series of openings, any one of which is adapted to receive a finger located at the outer end of the other member of the clasp. We do not, therefore, claim either of those constructions broadly.

Having fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A shade-holder having a shade-ring com-

prising two pivoted segmental sheet-metal jaws, a segmental gate concentric with the said jaws and overlapping the same for adjustably securing them together, whereby the ring may be structurally expanded or contracted for adjusting it in size, a supporting clasp located in a plane parallel with that of the said ring for attaching the holder to a lamp, and means for slidably connecting the said clasp and ring, substantially as described.

2. A shade-holder having a shade-ring comprising a pair of segmental jaws, a coupling-plate to which the rear ends of the said jaws are pivoted, a pivotal, segmental gate completing the circle of the ring, pivotally connected with the forward end of one of the jaws, provided at its free end with a series of sockets or holes, and adapted to lap over the forward end of the other jaw, a catch or tooth located on the said forward end of the other jaw for engaging in either of the said sockets or holes, whereby the shade-ring formed by the said parts is rendered structurally expandible or contractible, a supporting clasp located in a plane parallel with that of the said ring for attaching the holder to a lamp, and means, including the said coupling-plate, for connecting the said clasp and ring, substantially as described.

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

NATHAN W. CRANDALL.
EDGAR A. RUSSELL.

Witnesses:

HENRY L. DAVIS,
LULA M. BARTHOLOMEW.