

(No Model.)

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

SHADE SUPPORT.

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No. 527,946.

Patented Oct. 23, 1894.

Fig. 1

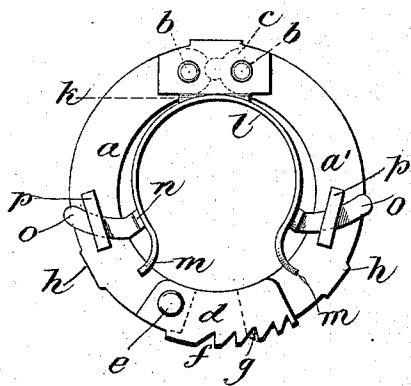


Fig. 2

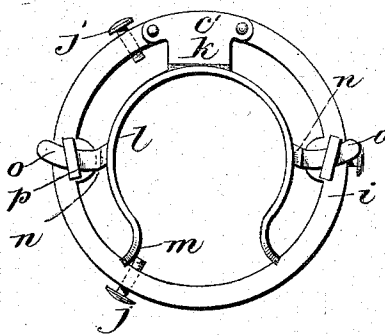
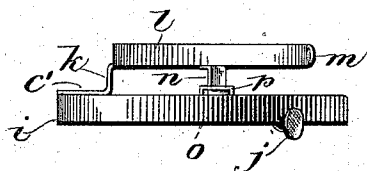


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

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

SHADE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 527,946, dated October 23, 1894.

Application filed September 11, 1893. Serial No. 485,265. (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 plan view of a modification, and Fig. 3, a side elevation thereof.

Our invention relates to improvements in shade-holders, especially designed for application to incandescent lamps, and its object is to provide means for readily attaching it to and detaching it from a lamp, and to provide a substantial, effective and simple device for that purpose.

To these ends our invention consists in a shade-holder having a supporting-clasp of substantially U-shape, or of a circular shape broken out at one side to form a mouth whereby it is permitted to be slid onto a lamp from one side.

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

In Fig. 1, the shade-ring is shown as composed of 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. The position of the jaws may be adjusted and the size of the shade-ring which they compose regulated, by means of a gate *d* pivoted at *e* to the forward end of jaw *a* and provided at its front edge with a series of sockets or notches *f* adapted to receive a catch or tooth *g* on the forward end of jaw *a'*. Fingers *h* projecting from the ring engage and support a shade.

The described portion of the device forms the subject matter of a separate application filed September 11, 1893, and serially numbered 485,264, and is not claimed herein except in so far as there is a combination effected

with the supporting-clasp and its accessories, now to be described.

In Figs. 2 and 3, the shade-ring *i* is of the usual old form provided with thumb-screws *j*, and as the remaining parts of the holder are substantially the same as shown in Fig. 1, from here on the said figures will be described together.

An arm *k* extends upwardly from the coupling-plate *c*, Fig. 1, or the base-plate *c'*, Fig. 2, as the case may be, and is attached at its upper end to the back of the supporting clasp which consists of a substantially U-shaped strip *l* of spring-metal arranged in a plane parallel with that of the shade-ring below it. The said supporting-clasp formed by strip *l* is normally contracted, but when the outwardly bent or curved free forward ends *m*, thereof are caused to be separated by engaging with a lamp sidewise it is expanded and the mouth between them widened so that the clasp may be slipped thereonto and constantly grasp the same and support the shade-holder. The free forward ends *m* must be supported against downward or upward strain in some manner and for this purpose pendent arms *n* project therefrom, and are provided at their lower ends with lateral feet *o* which extend oppositely, and are received and guided in arched guides *p* fixed on the upper side of the shade-ring. This sliding connection between the supporting-clasp and shade-ring, permits the latter to be adjusted without interference from the former, and at the same time, when the shade-ring has been set to desired adjustment, it also permits the clasp to expand and contract without interference from the said ring.

We do not limit ourselves to the form of shade-ring shown as other and obvious forms may be used in connection with the supporting-clasp.

We are aware that the combination with a shade-ring, of a normally open, substantially U-shaped elastic clasp, is old, and also that it is old to provide for sliding connection between the two arms or members of a normally closed clamp and the shade-ring with which the same is combined. 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—

In a shade-holder, the combination with a shade-ring adapted to be fitted to shades
5 varying in size, and provided with two guides located opposite each other, of a normally open, substantially U-shaped elastic clasp located in a plane parallel to the plane of the
10 said ring, rigidly secured opposite its opening thereto, and having each of its respective ends provided with a depending radial supporting arm, constructed to take into and slide back and forth in the said guides of the ring, substantially as set forth, and whereby

the said ends of the clasp are guided when 15 they are forced apart, and when they recover or spring back to their normal positions, and whereby also the ring and shade are supported from the said clasp.

In testimony whereof we have signed this 20 specification in the presence of two subscribing witnesses.

NATHAN W. CRANDALL.
EDGAR A. RUSSELL.

Witnesses:

HENRY L. DAVIS,
LULA M. BARTHOLOMEW.