

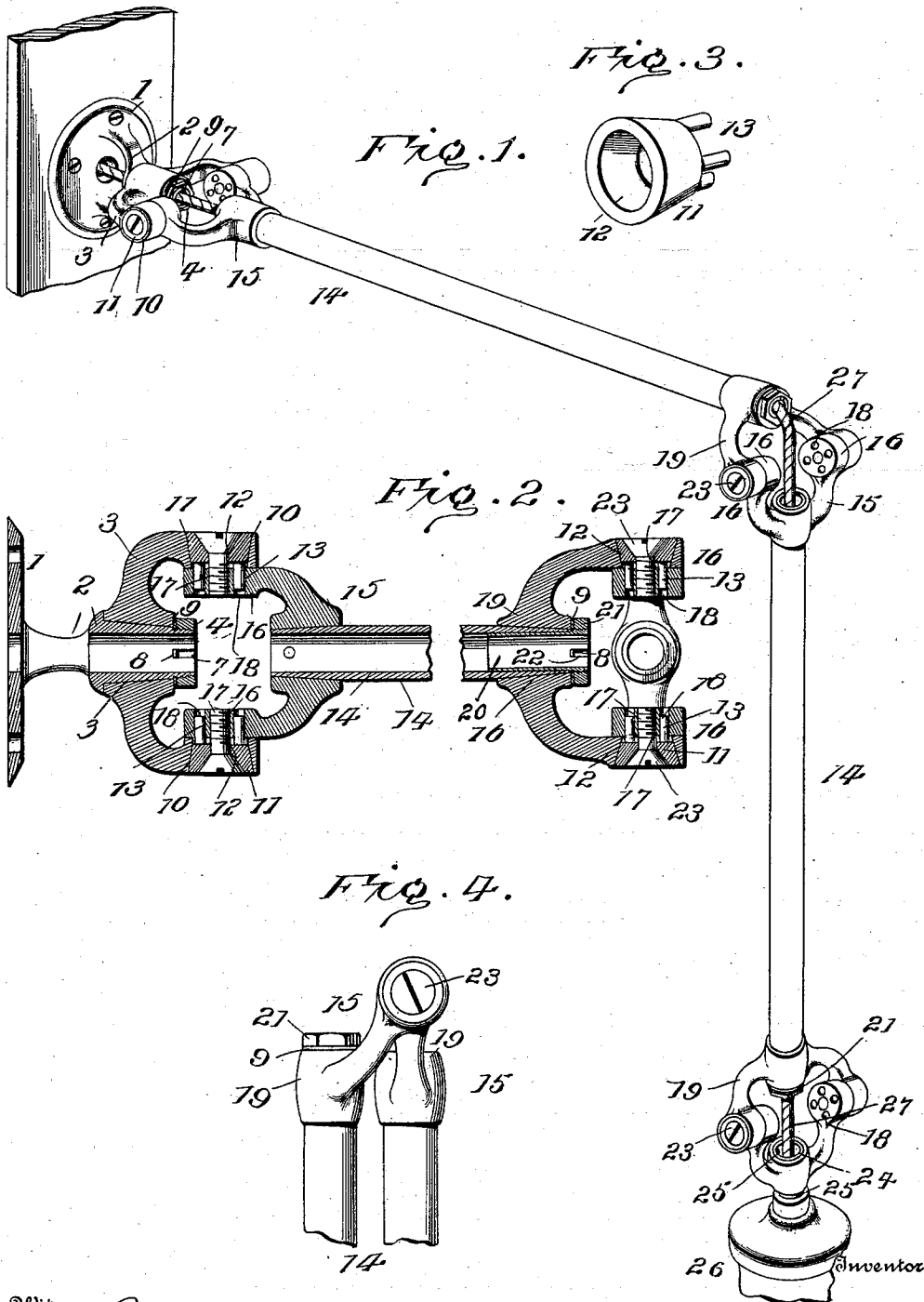
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W. A. SWAN.
SUPPORT FOR ELECTRIC LAMPS.

(Application filed Jan. 6, 1900.)

(No Model.)



Witnesses
Jm. Moore
Lula Noel.

26  Inventor
Willis A. Swan.
by J. R. Nottingham Attorney

UNITED STATES PATENT OFFICE.

WILLIS A. SWAN, OF PROVIDENCE, RHODE ISLAND.

SUPPORT FOR ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 657,502, dated September 4, 1900.

Application filed January 6, 1900. Serial No. 612. (No model.)

To all whom it may concern:

Be it known that I, WILLIS A. SWAN, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Brackets or Supports for Electric and other Lamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to adjustable brackets or supports for supporting lamps, being especially designed to support electric incandescent lamps; and the primary object is to provide a support capable of a variety of adjustments, so that when in use over desks, tables, and other like places, where the position of the lamp requires to be changed at different times, the lamp may be quickly shifted to any desired position and there supported without the necessity of the usual fastening devices.

Another object of the invention is to so construct the bracket or support that its adjustment from one position to another will not stretch or injure the conducting-wires of electric lamps. Other objects will become apparent upon a detail description of the invention.

The invention consists, essentially, in the novel construction and general arrangement of the various parts of the device, as will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of the bracket or support supporting an electric incandescent lamp; Fig. 2, a longitudinal section of a portion of the bracket or support, taken through the bearings of two of the joints; Fig. 3, a perspective view of one of the bearing-bushings, and Fig. 4 a view showing the sections folded together.

Referring to the several views, the numeral 1 indicates a rosette, of any suitable design, which is adapted to be secured to the wall or other desired part of an apartment and is preferably provided with a tubular arm 2, projecting therefrom. The outer surface of the tubular arm tapers from its base toward its outer end for a portion of its length, the remaining portion being cylindrical and screw-

threaded. Journaled on the arm 2 is a yoke 3, the center of which is bored tapering to correspond to the taper of said arm. A confining-nut 4 serves to hold the yoke on the arm 2, and in order to prevent the nut from becoming accidentally loosened the end of said arm is provided with a slot 7, into which is seated a tang 8 of a washer 9. The ends of the yoke are formed with tapering bearings 10 10, and fitting into each bearing is a correspondingly-tapered bushing 11, provided with a countersunk aperture 12 and with two or more pins 13, projecting from the inner face thereof, the purpose of which will be hereinafter explained.

The numerals 14 14 indicate sections of tubing, which may be of any desired length. To one end of each section is secured a yoke 15, the ends of which are formed with hubs 16. These hubs are provided with a central screw-threaded aperture 17 and with two or more holes 18. The other ends of the tubular sections are provided with yokes 19 19, similar in all respects to the yoke 3. The said ends are made tapering, as shown in Fig. 2, and are internally screw-threaded to receive a short screw-threaded tube 20. The yokes 19 are journaled on the tapering end of the sections and are confined thereon by nuts 21, screwed onto the ends of said tubes. Washers similar to the washers 9 are employed to prevent the nuts from turning and becoming loose, and the end of each tube 20 is provided with a slot 22, into which the tang of the washer enters. The sections are joined together by inserting screws 23 into the countersunk apertures 12 and screwing them into the screw-threaded apertures 17. In joining the sections together the pins 13 of the bushings enter the holes 18 in the hubs of the yokes 15, thus securing the bushings to the hubs and causing the turning movement to be on the bushings and not on the screws, which construction prevents the screws from becoming loosened, and thereby the possible separation or disjoining of the sections. The sections are joined to the yoke 3 in the same manner that the sections are joined together. The respective ends of the yokes 3 and 15 are brought together and the bushings 11 inserted into the bearings 10, with the pins 13 entered in

the holes 18 in the hubs of the yoke 15. The screws 23 are then passed through the bushings and screwed into the apertures 17.

Hinged to the yoke 19, journaled on the free end of the outer section, is a yoke 24, similar in all respects to the yokes 15, except that it has screwed into its screw-threaded bore a short tube 25, to which is attached an electric incandescent lamp 26. The conducting-wires 27 pass through the sections to the lamp and, by reason of the peculiar construction of the joints of said sections, are not injured by the various adjustments to which the bracket or support may be subjected.

In order that the sections may be folded together and parallel with each other when desired, one of the yokes 19 has its arms bent or curved to one side, as shown. Any number of sections may be employed, as desired.

By journaling the yoke 3 on the arm 2 and the yokes 18 on the sections various adjustments other than those permitted by the hinged joints may be obtained; and by making the bearings tapering lost wear may be taken up and the connecting parts kept tight, thus insuring the support remaining in any position to which it may be adjusted until changed.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a support for electric and other lamps, the combination with a suitable attaching-plate, of one or more adjustable sections pivotally joined to said attaching-plate by two yokes, one of said yokes being capable of a

rotary motion, whereby the section or sections may be adjusted to various positions.

2. In a support for electric and other lamps, the combination with a suitable attaching-plate, of one or more adjustable sections pivotally joined to said attaching-plate by two yokes, one of said yokes being journaled on a tapering arm, whereby lost wear may be taken up.

3. In a support for electric and other lamps, the combination with a suitable attaching-plate provided with an arm, a yoke journaled on said arm and provided with tapering bearings in its ends, of one or more adjustable sections pivotally joined to said yoke, one of said sections being provided with a yoke having hubs in its ends, tapering bushings, seated in said bearings, the bushings provided with pins entering holes in said hubs, and screws for joining the yokes together.

4. In a support for electric and other lamps, the combination with a suitable attaching-plate, of one or more adjustable sections pivotally joined to said attaching-plate by two yokes, one of said yokes being journaled on a screw-threaded tapering arm, provided with an end slot and secured on said arm by a screw-threaded nut, a washer having a tang entering said slot, whereby lost wear may be taken up and the nut prevented from turning.

In testimony whereof I affix my signature in the presence of two witnesses.

WILLIS A. SWAN.

Witnesses:

FREDERICK F. TAFT,
GEORGE W. PARKER.