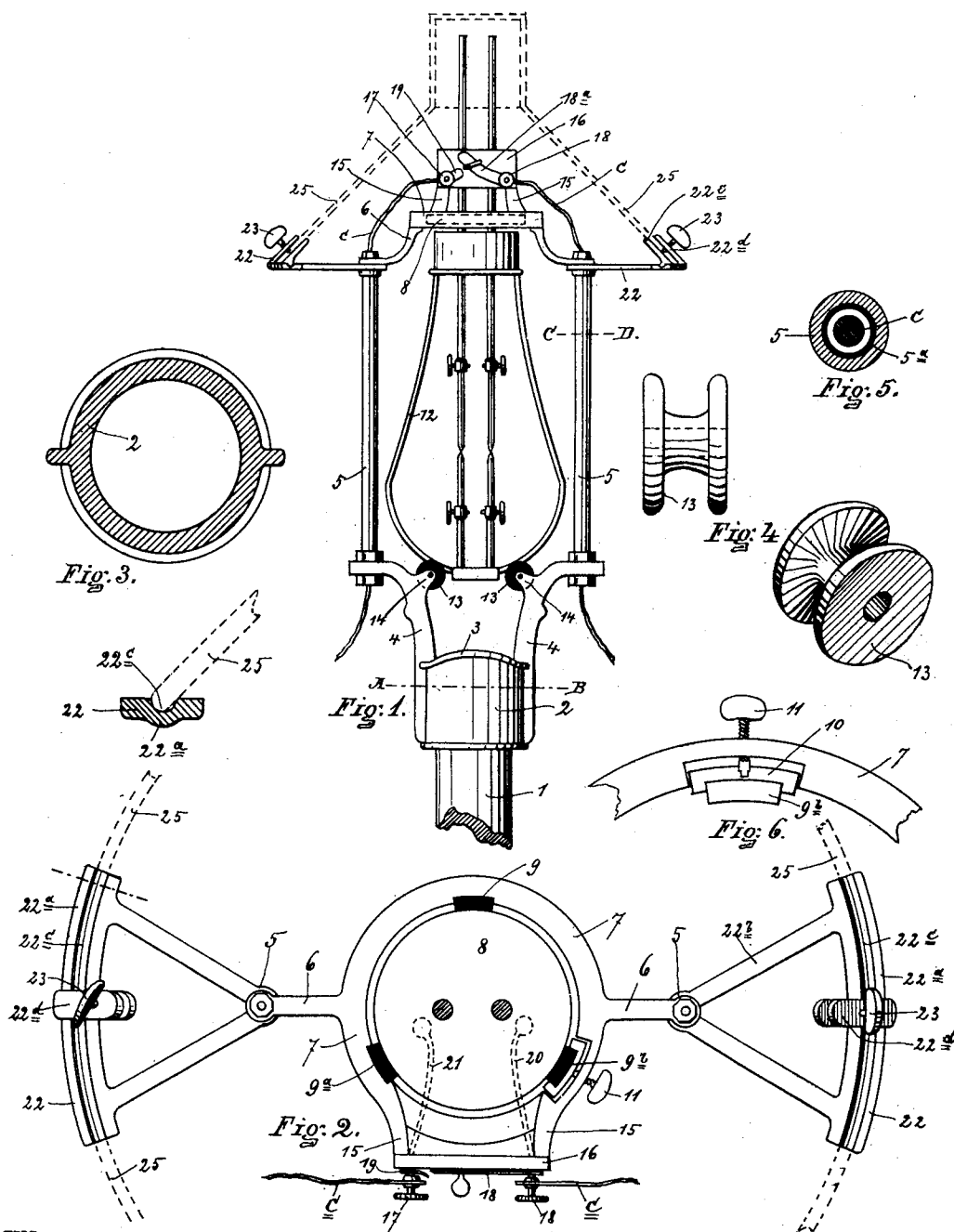


(No Model.)

W. F. BOSSERT & J. H. FINDLAY.
FRAME FOR ELECTRIC ARC LAMPS.

No. 482,940.

Patented Sept. 20, 1892.



WITNESSES.
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UNITED STATES PATENT OFFICE.

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FRAME FOR ELECTRIC-ARC LAMPS.

SPECIFICATION forming part of Letters Patent No. 482,940, dated September 20, 1892.

Application filed October 24, 1891. Serial No. 409,757. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM F. BOSSERT, of Utica, and JOHN H. FINDLAY, of Ogdensburg, State of New York, have invented certain new and useful Improvements in Frames for Electric Lamps; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form part of this specification.

Our invention relates to an improvement in electric-arc lamps, and more particularly to the frame in which the lamp is mounted and electrical mechanism in combination therewith.

In the drawings which accompany and form a part of this specification, and in which similar letters and figures of reference refer to corresponding parts in the several figures, Figure 1 shows a side elevation of an arc lamp in connection with our frame and holding mechanism, the said frame being adapted to be secured upon the upper end of the pole. Fig. 2 shows a top view of the same parts shown in Fig. 1, on a much larger scale. Fig. 3 shows a cross-section on line A B of Fig. 1. Fig. 4 shows an insulator used in the device. Fig. 5 shows a cross-section on line C D of Fig. 1. Fig. 6 shows details of construction hereinafter explained.

One of the more peculiar features of our invention consists in providing means for firmly securing the lamp in entire insulation from its supporting mechanism, and also in providing a short-circuit switch to cut out the lamp, in connection with the frame which supports the lamp, and, further, in providing a device for securely and evenly securing the hood for the lamp.

Referring more particularly to the reference numerals and letters marked in the drawings in a more particular description of the device, 1 indicates a post or pole on which the lamp is mounted by means of the post-frame, which engages the pole by the socket 2, having a closed top 3, and is provided with arms 4 4,

formed integral therewith. The upper end 50 of the arms 4 4 are provided with vertical perforations, in which engage the vertical standards 5 5, which standards are preferably hollow, as shown on larger scale in Fig. 5, and provided with an insulating-lining 5^a, the opening through the standard furnishing passage for the conductor C.

Connected with the upper ends of the standards 5 are arms 6 6, formed on holding-ring 7. Ring 7 lies in the same plane with and surrounds plate 8 of the lamp proper, which plate 8 forms a portion of the frame of the lamp proper, and plate 8 is secured within the ring 7 by insulated pieces 9, 9^a, and 9^b, which insulating-pieces 9 and 9^a are dovetailed into the ring 7 and project inside of the inner circle thereof, and the insulator 9^b is dovetailed into the adjustable piece 10, which piece is adjusted by means of set-screw 11, passing through the ring 7 and engaged in piece 10. The lower portion of lamp 12 is supported on insulators 13 13, which insulators are held in a pair of projecting lugs 14 on each of the arms 4.

On the upper end of the frame and supported by arms 15 15, projecting from ring 7, is a switchboard 16, provided with binding-post 17 and 18, from which extend electrical-current conductors C. The switchboard 16 is insulated, or the binding-post 17 and 18 may be separately insulated.

On the binding-post 13 is provided a movable switch-lever 18^a, adapted to engage spring contacting-piece 19, connected with binding-post 17. There also extend from the binding-post 17 and 18 connections with the lamp, as shown in dotted lines at 20 and 21. At the upper end of the uprights or standards 5 are secured hood-supporters 22, which consist of a segmental portion 22^a, supported by arms 22^b. The segmental portion 22^a is provided with groove 22^c. Coinciding with the segmental portions we provide a pair of upwardly-projecting parallel lugs 22^d and 22^e, adapted to receive the edge of the hood, (shown in dotted lines at 25,) and the hood is secured by means of set-screws 23, passing through projections 22^d. It will be understood that the hood 25

is substantially cone-shaped, with cylindrical portion on top.

By means of the devices described the lamp is perfectly insulated from the lamp-frame and securely held. The lamp-frame is entirely free from liability to become charged, and thus dangerous to persons who have to attend the lamps. When it is desired to cut the lamp out of circuit, this may be readily done by turning the switch-lever 18 into engagement with contacting-piece 19. Aside from this the operation of the electrical lamps is so well understood as to make specific description of operation unnecessary.

What we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with an electric-lamp frame, of insulators 13, adapted to engage and support the lower portion of the lamp, and a ring 7, adapted to surround the upper portion of the lamp and secure the same by means of insulating-pieces within the ring, substantially as set forth.

2. The combination, with an electric-lamp frame, of insulators 13, adapted to engage and support the lower portion of the lamp, and a clamping-ring adapted to surround the upper portion of the lamp and engage the same by insulators, substantially as set forth.

3. The combination, with an electric-lamp frame, of the lamp-hood and supporters therefor having a segmental portion on which the edge of the hood rests, and projecting lugs adapted to receive the edge of the hood, and a set-screw for securing the hood, substantially as set forth.

4. The combination, with an electric-lamp hood, of a supporter therefor having a segmental portion 22^a, on which the edge of the

hood rests, and projecting lugs 22^d and 22^e, adapted to receive the edge of the hood, and a set-screw for securing the hood, substantially as set forth.

5. The combination, with an electric-lamp-post frame, of a ring 7, surrounding the upper portion of the lamp, and insulators 9 and 9^a, projecting inside of the ring, and adjustable insulator 9^b, also projecting inside of the ring, substantially as set forth.

6. In a lamp-frame, the combination of a socket 2, the arms 4 4, projecting therefrom, carrying insulators 13 13 and uprights 5 5, the ring-supporting arms 6, and the ring 7, surrounding the upper portion of the lamp and adapted to engage the same by insulators, substantially as set forth.

7. The combination, in a lamp-frame, of a socket 2, the arms 4 4, carrying insulators 13, hollow uprights 5 5, ring-supporting arms 6, engaging upon the upper ends of the uprights 5 5, and supporting-ring 7, which is adapted to surround and engage by adjustable insulators the upper portion of the lamp, switch-board 16 and the supports therefor, binding-post 17 and 18, and switch-lever 18^a, substantially as set forth.

In witness whereof we have affixed our signatures in presence of two witnesses.

WILLIAM F. BOSSERT.

JOHN H. FINDLAY.

Witnesses as to signature of William F. Bossert:

JOSIAH PERRY,

M. E. ROBINSON.

Witnesses as to signature of John H. Findlay:

GEORGE E. VAN KENNEN,

J. F. WELLS.