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W. R. KAHNS ET AL.
LIGHTING FIXTURE.
FILED MAR. 28, 1922.

Fig. 1.

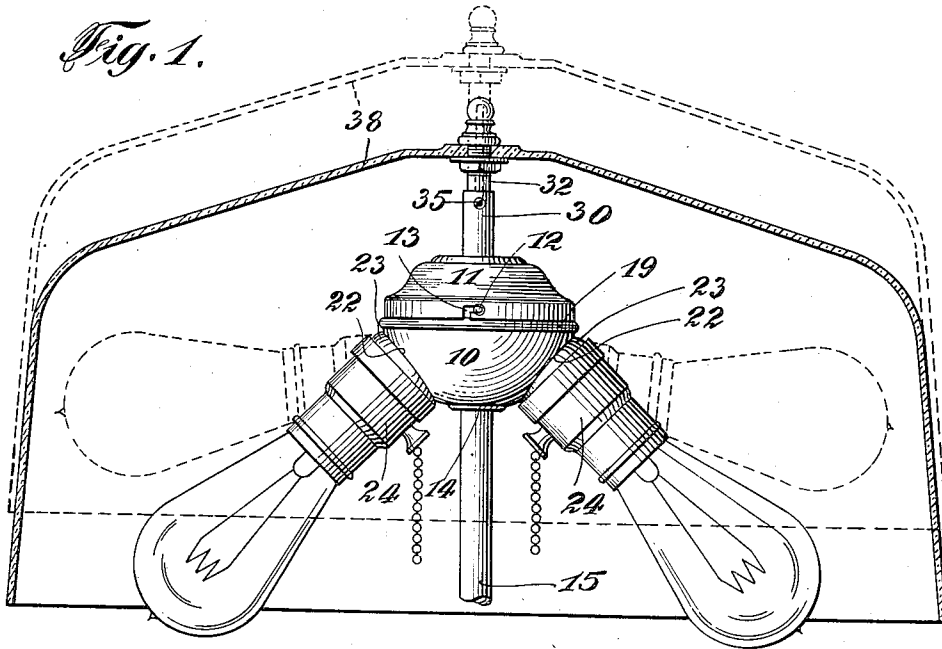


Fig. 2.

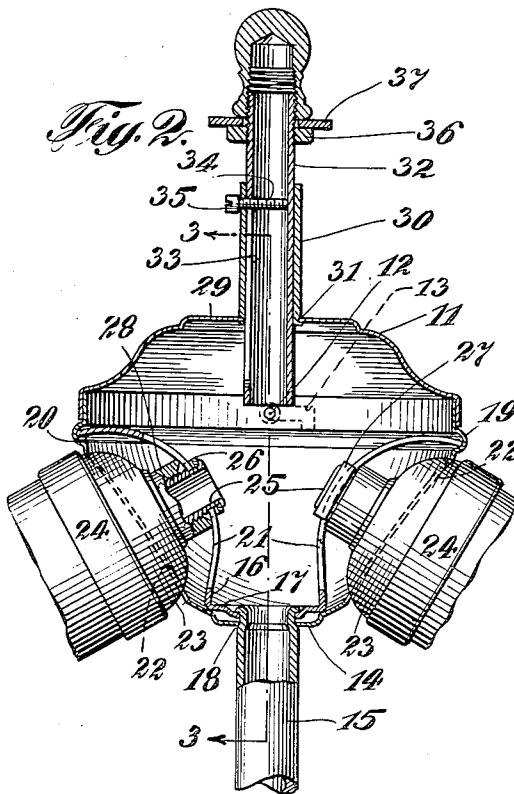
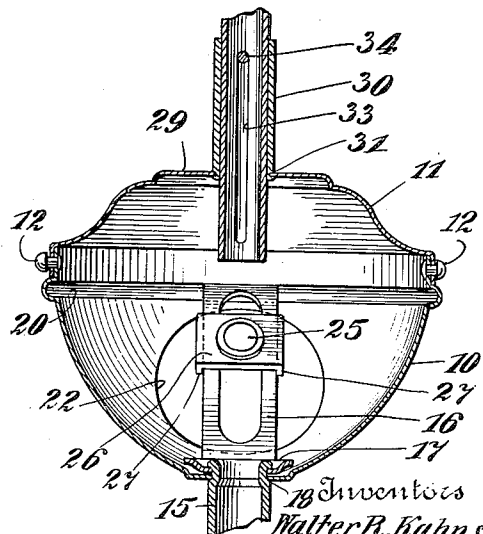


Fig. 3.



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UNITED STATES PATENT OFFICE.

WALTER R. KAHNS AND KARL KELLER, OF BROOKLYN, NEW YORK, ASSIGNORS TO
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LIGHTING FIXTURE.

Application filed March 28, 1922. Serial No. 547,355.

To all whom it may concern:

Be it known that we, WALTER R. KAHNS and KARL KELLER, citizens of the United States, both residing at the borough of Brooklyn, in the county of Kings, city and State of New York, have jointly invented an Improvement in Lighting Fixtures, of which the following is a specification.

Our invention relates to portable cluster lighting fixtures, one object being to provide for the adjustment of the lamp sockets to positions of various angles whereby the lamps may be positioned with respect to shades of various depths; another object being to provide means whereby the shades may be raised or lowered; also for facilitating the wiring.

The details of construction and operation of the fixture are hereinafter particularly described.

In the accompanying drawing:

Figure 1, is an elevation of a lighting fixture embodying our invention, the stem being broken away, and the lamps and shade being shown in an adjusted position by broken lines.

Fig. 2, is a sectional view in larger size showing the interior of the shell with the lamp sockets and tubular stem partly broken away, and

Fig. 3 is a sectional view taken on the broken line 3—3 of Fig. 2.

Similar reference characters indicate like parts throughout the several figures.

Referring to the drawing, 10 indicates a shell formed of sheet brass, or other suitable material, and provided with a removable cap 11. This cap may be removably connected to the shell in any suitable manner. We prefer to employ headed pins 12, on the rim of the shell, with bayonet slots 13, on the rim of the cover or cap for this purpose.

The shell 10, is provided with a central boss 14 on its bottom, through which there is an opening. 15 denotes a tubular stem connected at its upper end with the bottom of the shell and supporting the same. 16 denotes a yoke within the shell. This yoke has a central horizontal portion 17, comparatively flat, and provided with an opening of like diameter with the opening in the boss 14, on the shell and in alignment therewith being seated in the bottom of the shell.

The extreme upper end of the tubular

stem 15, is somewhat reduced in thickness forming an annular shoulder 18, adjacent its top upon which the boss on the bottom of the shell is seated, that portion of the stem above said shoulder passing through the openings in the boss and yoke, and being upset over the top surface of the central horizontal portion of the yoke, whereby the yoke, shell and stem are rigidly secured together. They may in addition be further secured together by solder if desired.

There is an annular rib 19, formed upon the shell 10, adjacent its upper end, leaving a corresponding annular groove 20 inside the shell. The rib 19, forms a seat for the bottom edge of the removable cap 11.

The yoke at each side of its horizontal portion 17 is extended upwardly in oppositely curved directions, the end of each curved portion being sprung into the annular groove 20, inside the shell 10.

Each of these curved portions of the yoke 16, is provided with a longitudinal slot 21.

On each side of the shell 10, in alignment with the curved arms of the yoke, there is provided an opening 22, of a size to receive and fit the rounded ends 23, of the lamp sockets 24.

25 denotes two hollow exteriorly threaded studs, one projecting slidably through each of the longitudinal slots 21 in the arms of the yoke 16, towards the side openings 22, in the shell. These studs are connected at their inner ends to guide clips 26, which bear upon the inner surfaces of the curved arms of the yoke 16, and have their ends at each side of said arms bent at right angles as at 27, in such manner that these guide clips are slidable over the inner surface and outer edges of the curved arms and carry the studs 25 with them. The studs 25 are connected to the guide clips 26, through an opening in the clips, the inner ends of the studs being somewhat reduced in thickness and passed through said openings in the clips, when the projecting ends of the studs are upset around the openings in the clips, and they may be further secured by solder. These threaded studs 25 are screwed into the interiorly threaded nipples 28, on the lamp sockets 24, drawing the rounded ends 23, of the sockets within the side openings 22, in the shell 10.

Owing to the studs 25 being slidable in

the slots 21 of the curved arms of the yoke 16, it will be readily understood that the lamp sockets 24 may be adjusted to any desired angle with respect to the shell 10, and that by screwing the sockets upon the studs 25, until the rounded ends 23, of the sockets bind within the openings 22, in the shell, the sockets will be securely held in the desired position.

When it is desired to alter such position it is only necessary to unscrew the sockets sufficiently to relieve the binding action, when they may be raised or lowered as desired and again clamped in the desired position by screwing them further upon the studs 25.

The rounded ends 23 of the sockets 24 fit into the side openings 22, in the shell 10, in such manner as to prevent the entrance of dust into the shell through such openings, and also avoids any disfigurement of the fixture, which might be occasioned if the openings in the shell were exposed.

The lower end of the tubular stem 15, may be connected with any suitable base.

A central circular boss 29, is formed upon the top of the cap 11, flat on the top and provided with a central opening. A vertical tube 30, is secured to the top of the cap through this opening, preferably by reducing the thickness of the tube adjacent its lower end forming an annular shoulder 31, which seats upon the top of the boss 29, the reduced portion of the tube 30, being passed through the opening in the boss and upset against its inner surface around said opening; it may in addition be soldered if desired.

32, indicates a tube slidable within the tube 30, and provided with a longitudinal slot 33, in one side.

A screw 34, passes through a threaded hole in the tube 30, adjacent its upper end, and enters the slot 33, in the tube 32.

This screw is provided with a head 35, preferably knurled or roughened to provide for its convenient turning by the thumb and finger, and is of a length to contact with the opposite inner surface of the tube 32, whereby the tube 32 may be held in any position to which it may be adjusted within the tube 30. This screw also limits the upward and downward movement of the tube 32.

The tube 32 is screw threaded exteriorly a predetermined distance at its upper end, and a nut 36 is screwed down upon the same. A disk 37 is seated upon this nut, the shade 38 being supported upon said disk.

A knob is then screwed down upon the upper end of the tube 32, bearing upon the shade ring and holding it in position upon the disk.

It will thus be seen that the shade 38, may be raised or lowered and clamped in the desired place to hold it in the proper relative position to the lamp sockets 24, in any posi-

tion to which they may be adjusted and fixed.

While we have illustrated a fixture employing only two oppositely disposed lamp sockets, it will be readily understood that three or more sockets may be employed by increasing the number of curved arms on the yoke, and making additional and properly spaced openings in the shell.

We claim as our invention.

1. A lighting cluster, comprising a shell provided with an annular groove in its upper part, a yoke secured within the shell provided with a plurality of fixed arms extending upwardly therefrom and outwardly curved on their upper portions, their free ends entering said annular groove in the shell, and means connected with said arms for adjustably supporting lamp sockets.

2. In a lighting fixture, the combination of a shell provided with a plurality of spaced openings in its sides, a removable cover for the shell, a yoke within the shell secured to the bottom thereof and having a plurality of upwardly and outwardly curved arms, each provided with a longitudinal slot, guide clips slidably mounted upon said arms, threaded studs permanently connected at one end to each of said clips and passing through said slots, a shade, and means connected with the cover for adjustably supporting the shade.

3. A lighting cluster, comprising a shell provided with a plurality of spaced openings in its sides, a yoke within said shell secured to the bottom thereof and having a plurality of upwardly and outwardly curved arms each provided with a longitudinal slot, guide clips slidably mounted upon said arms, threaded studs permanently connected at one end to each of said clips and passing through said slots, and lamp sockets screwed upon said studs with their rounded ends fitting into said spaced openings in the shell whereby said lamp sockets may be adjusted at different angles relative to the shell.

4. A lighting cluster, comprising a shell provided with spaced openings in its sides, a yoke within said shell secured to its bottom and having a plurality of upwardly and outwardly curved arms each provided with a longitudinal slot in alignment with said openings in the shell, guide clips slidably mounted upon said arms, hollow threaded studs permanently connected at one end to said guide clips and extending through the slots in said arms, lamp sockets having their rounded ends fitted into said openings in the shell and screwed upon said studs whereby said sockets may be adjusted at different angles relative to said shell and clamped in the desired position by screwing them tightly on said studs, a removable cover for said shell provided with a central opening in its top, a tube secured at its

lower end within said opening, another tube
inserted in said first tube and slidable
therein provided with a longitudinal slot in
one side, a screw passing through a threaded
5 opening adjacent the top of said first tube
and through the slot in the second tube
and of a length to be brought in contact with
the interior surface of said second tube
whereby said second tube may be clamped in
a raised or lowered position, a support for 10
a shade carried by the upper end of said
second tube, a shade seated thereon, and
means for clamping it in position.

Signed by us this 23rd day of March,
1922.

WALTER R. KAHNS.
KARL KELLER.