April 12, 1932. I. S. CROCKER 1,854,020

ADJUSTABLE SUPPORT

Filed Nov. 24, 1930

Fig. 1.

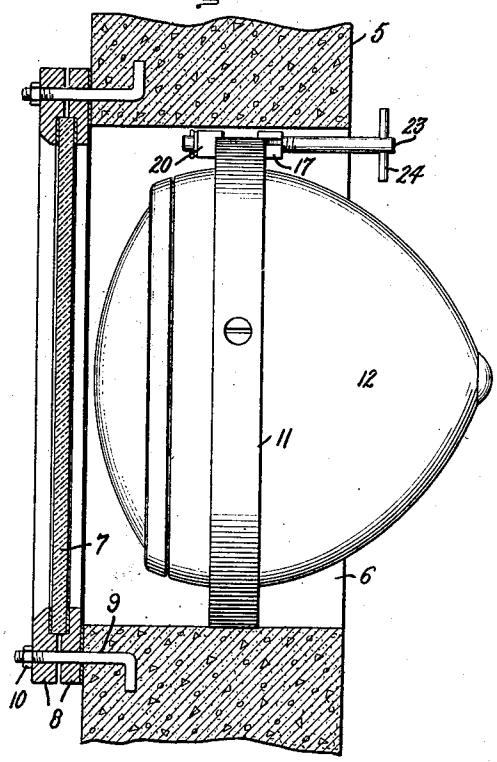


Fig. 2.

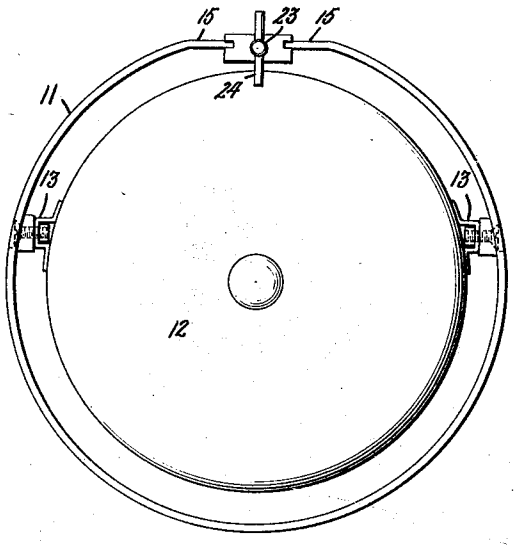
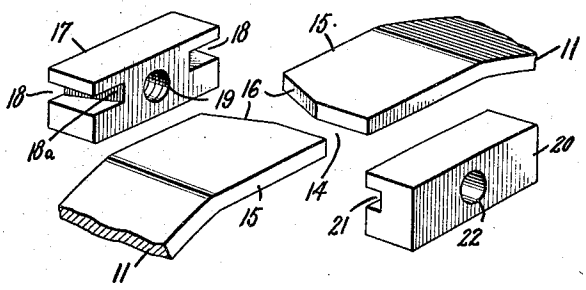


Fig. 3.



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UNITED STATES PATENT OFFICE

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ADJUSTABLE SUPPORT

Application filed November 24, 1930. Serial No. 497,659.

This invention relates to an adjustable support by means of which a member carried by the support may be easily and quickly secured in place.

While I show and describe the adjustable support as applied to a floodlight, it is to be understood that it is not so limited but may be used wherever applicable.

In many cases where floodlights are used, it is necessary to mount the light in an opening or recess in a wall or casing, e. g. in illuminating swimming pools, theater stages, ball rooms, etc. In such cases it is necessary that the light be supported in the opening in such a manner that it may be easily and readily removed or positioned in place.

The object of the invention is to provide a support for a floodlight which may be easily and quickly adjusted to secure the light in position.

For a consideration of what I believe to be novel and my invention, attention is directed to the following specification and the claim appended thereto.

In the drawings, Fig. 1 is an elevation with parts in section showing the support as applied to a floodlight to position the light in a port hole in a wall of a swimming pool; Fig. 2 is a side view of Fig. 1 showing the adjustable support applied to a floodlight, and Fig. 3 is a view showing the relation of the adjusting wedge to the supporting ring.

Referring to the drawings, there is shown at 5 a wall of a swimming pool. The wall is formed with a circular port hole 6, which generally is situated below the surface of the water in the pool. In order to prevent the water in the pool from entering the port hole there is provided a cover plate for the port hole which as shown in Fig. 1 comprises a glass plate 7 positioned between a pair of annular metallic rings 8, the rings being secured together and to the face of the wall 5 by suitable fastening means such as a bolt 9 which is embedded in the wall and passes through the rings, and a nut 10 cooperating with the threaded free end of the bolt.

A circular ring 11 forms a support for a floodlight 12, the floodlight being tiltably mounted on the supporting ring by means of the trunnions 13. The supporting ring is split as shown at 14 and the adjoining portions of the ring at this point are bent angularly to lie in a horizontal plane as shown at 15. The adjoining edges of the ring are cut away as shown at 16 to form oppositely inclined faces.

A block 17 is formed with slots 18 in its lateral edges, the inner walls of the slots being formed as oppositely inclined faces 18*a* which correspond to the inclined edges 16 of the ring member. A threaded bore 19 is formed transversely of the block 17. A second block 20, has one of its longitudinal edges formed with a slot 21, and is also provided with a transverse bore 22. The blocks 17 and 20 receive the ring member between them, the block 17 being positioned on one side of the ring member and the block 20 on the other side thereof, the horizontal portions 15 of the ring member being seated in the slots 18 and in the slot 21. The bores 19 and 22 are in alignment and through these bores there is passed a rod 23 which has one end rotatably journalled in the bore 22 of the block 20. The rod 23 is threaded for a portion of its length, intermediate its ends, and this threaded portion engages with the threaded bore 19 of the block 17 so that rotation of the rod 23 will move the block 17 along the rod. The free end of the rod 23 is provided with a handle 24 by means of which the rod may be manually rotated.

The ring member with the floodlight 12 supported thereon by means of the trunnions 13 is positioned in the port hole 6, the external diameter of the ring member being slightly less than the diameter of the port hole. When the ring is properly positioned in the port hole, the rod 23 is rotated in a direction to move the block 17 toward the block 20. The inclined faces 18*a* of the block 17 engaging the faces 16 of the edges of the ring will move these edges apart, thus spreading the ring member and causing it to be wedged against the walls of the port hole.

From the foregoing description and arrangement of parts, it will be apparent that I provide a support for a floodlight by means

of which the floodlight may readily be secured in place.

In accordance with the provisions of the patent statutes, I have described what I now consider to represent the best embodiment of my invention, but it is to be understood that such disclosure is merely illustrative and that the invention may be carried out by other means.

What I claim as new and desire to secure by Letters Patent of the United States, is,—

The combination with a member adapted to be positioned in an opening in a supporting wall, of means for supporting said member in the opening comprising a split ring on which the member is mounted, the adjoining edges of said ring being formed on one side with an inclined face, a block having an inclined face cooperating with the inclined face on the ring, a second block which engages the ring on the other side, said blocks being provided with aligned openings, and a rod which extends through said openings and has threaded engagement with the opening in one of said blocks and passes freely through the opening in the other block for drawing said blocks toward each other to spread apart the ends of the ring.

In witness whereof, I have hereunto set my hand this twenty-first day of November, 1930.

IRVING S. CROCKER.