C. J. PETERSON.

LAMP HOLDER.

APPLICATION FILED JUNE 11, 1918.

1,305,406.

Patented June 3, 1919.

Fig. 1.

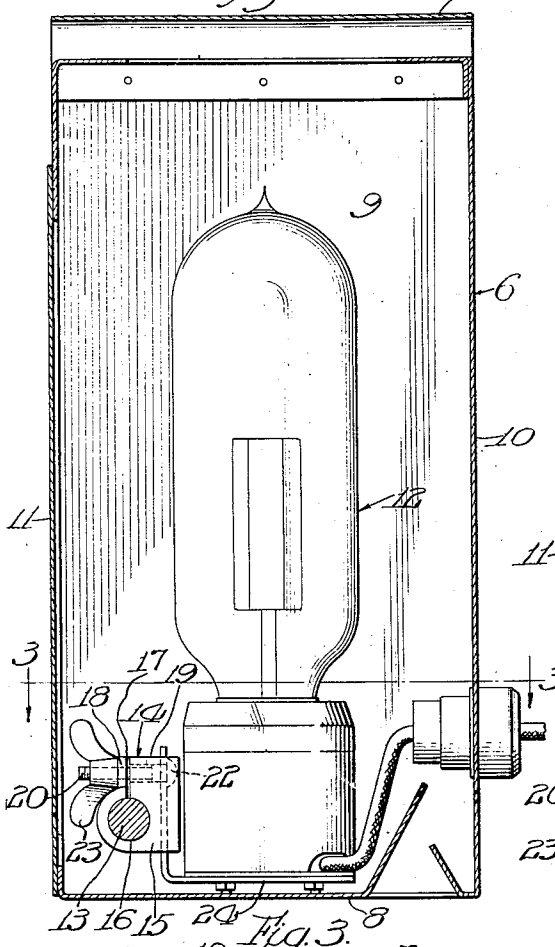


Fig. 2.

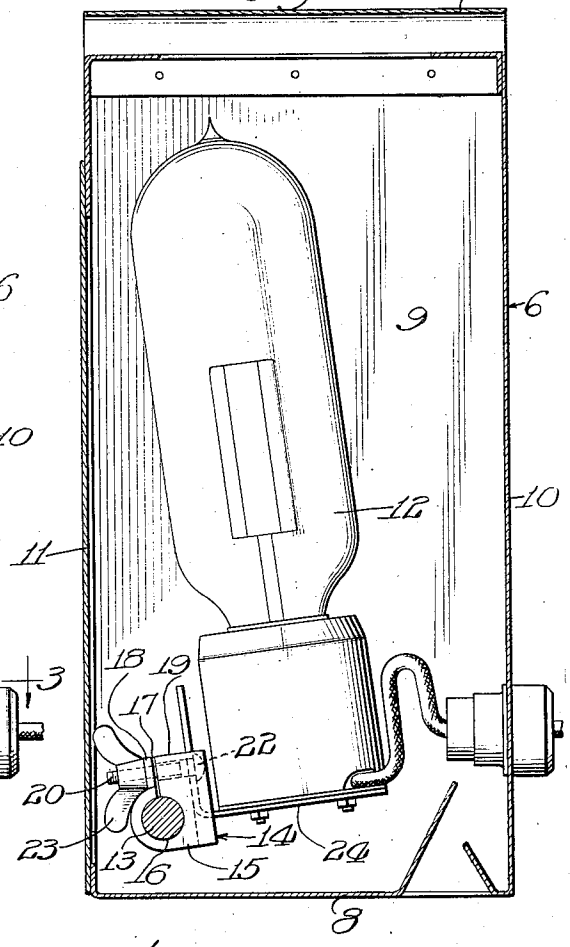


Fig. 3.

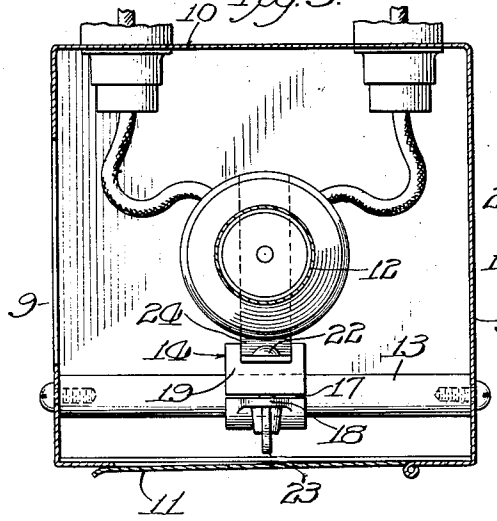


Fig. 4

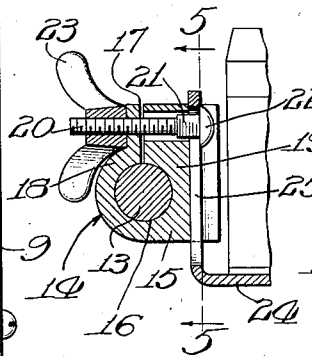
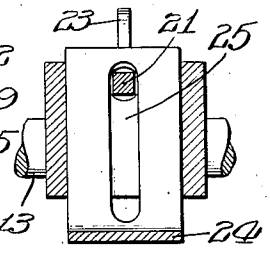


Fig. 5.



Inventor:
Christen J. Peterson
By: Wm. S. Bond Atty.

UNITED STATES PATENT OFFICE.

CHRISTEN J. PETERSON, OF CHICAGO, ILLINOIS.

LAMP-HOLDER.

1,305,406. Specification of Letters Patent. Patented June 3, 1919.

Application filed June 11, 1918. Serial No. 239,413.

To all whom it may concern:

Be it known that I, CHRISTEN J. PETERSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lamp-Holders, of which the following is a specification.

The present invention relates to an attachment in the form of a holder for a lamp or other light producing means of the character usually placed within a lamp-house, the invention being particularly adapted for use in connection with lamps of the type employed in association with motion-picture or similar machines.

The objects of the invention are, to provide a holder for the lamp whereby the lamp can be moved laterally within the interior of the lamp-house, can be swung about a pivotal center within the said house, and can be raised and lowered within said house; to utilize a single locking means for locking the holder and lamp against all of such movements, and which when moved to unlocked position will permit the lamp to partake of any selected of such movements.

A further object of the invention is to provide a holder of the character specified which will be simple and strong of construction and economical of manufacture.

The invention further consists in the features of construction and combination of parts hereinafter described and claimed.

In the drawings:

Figure 1 is a vertical section of a lamp-house, showing the holder of the present invention in operative position;

Fig. 2 is a view similar to Fig. 1, but showing the position of the parts when the holder has been moved to permit the lamp to move into an adjusted position;

Fig. 3 is a section on line 3—3 of Fig. 1, looking in the direction of the arrows;

Fig. 4 is an enlarged sectional detail of the holder of the present invention; and

Fig. 5 is a section on line 5—5 of Fig. 4, looking in the direction of the arrows.

In the art to which the present invention relates, and particularly in connection with motion-picture, stereoptican and similar machines, a lamp-house is employed which contains a light producing element, either in the form of carbons, filament, or other medium used in connection with the production of electric lights. It is frequently necessary to adjust the position of the light producing element within the light-house to get the proper concentration of rays upon the screen or other projecting surface. It is highly desirable that such adjustment be carried out in as quick and simple a manner as possible, and one of the principal objects of the present invention is to allow the light producing element to partake of a series of adjustable movements and allow any selected of said movements to be carried out or the element locked against all of said movements by the manipulation of a single common locking member.

Referring now to the drawings, and particularly to Fig. 1, the invention is illustrated in connection with a lamp-house 6, which may be of any suitable size and character, and which, as shown, comprises a roof 7, a base 8, side walls 9, a rear wall 10 and a front wall 11, although the terms given to the various walls, as will be understood, are for descriptive purposes only.

Mounted within the lamp-house is a light producing element 12, which in the form shown consists of a filament lamp, connection to which is made in any suitable manner from a suitable source of electric power. Fixed within the lamp-house and, as shown, to the side walls 9 thereof is a rod 13, and mounted upon this rod is a lamp holder or bracket 14, which forms the subject-matter of the present invention.

The holder is composed of a split body 15, which is formed with an opening 16, whereby it embraces the rod. The body is split as at 17, providing a spring, leaf-like portion 18 and a block-like portion 19. Extending through the block-like portion is a bolt 20, having a squared portion 21 and a head 22. The stem of the bolt is threaded, as will be seen in Fig. 4; and mounted upon the threaded portion is a wing-nut 23. It is obvious that as this wing-nut is drawn into engagement with the leaf-like portion 18, the body 15 will be clamped to the rod 13 and held against either a sliding or turning movement thereon. By loosening the wing-nut 23, the body 15 can be either slid longitudinally of the rod to move the lamp with respect to the walls 9, or it can be rocked about the rod 13 as a center to move the lamp to and from the walls 10 or 11.

Attached to the lamp body is a bent strap 24, formed with a slot 25 therein (see Figs. 4 and 5). Extending in this slot 25 is the squared portion 21 of the bolt 20; and lying

to the rear of the slot is the head 22 of said bolt. The head is of such size as to prevent its being pulled through the slot. With the wing-nut 23 in locking position, wherein the body 15 is clamped, the head 22 will be drawn against the strap so as to hold it in tight engagement with said body, and the body being at this time locked to the rod by the position of the wing-nut, the lamp is held against movement within the lamp-house.

By loosening the wing-nut 23, the body 15 is loosened with respect to the rod, and the strap 24 loosened with respect to the body. The body is then free to move longitudinally of the rod or be turned about the rod as a center, whereby the lamp may be adjusted in accordance with either or both of said movements, and the strap being free to move up or down with respect to the body 15, the lamp, if desired, may partake of this third adjusting movement.

It will thus be seen that by means of a single locking member, all three adjustment movements of the lamp are controlled.

Although the device has been described with considerable particularity, the invention is not deemed to be limited other than may be by the terms of the appended claims.

I claim:

1. In a device of the class described, the combination of a housing, a light producing element in said housing, a rod secured within the housing, a holder for said element, said holder being slidably and rotatably mounted on the rod, a connection between the element and said holder arranged to permit the element to move with respect to said holder, and a single releasable member for locking said holder to said rod and said connection to said holder, substantially as described.

2. In a device of the class described, the combination of a housing, a light producing element in said housing, a rod secured within the housing, a holder for said element, said holder being slidably and rotatably mounted on the rod, a connection between the element and said holder to permit the element to move with respect to the holder, and means operated by a single movable member for simultaneously releasing and locking said holder with respect to the rod and said connection with respect to the holder, substantially as described.

3. In a device of the class described, the combination of a housing, a light producing element within the housing, a rod within the housing, a split body on said rod, a connecting means between said body and element, and a single releasable means for locking said body to said rod and said connecting means to said body, substantially as described.

4. In a device of the class described, the combination of a housing, a light producing element within the housing, a rod within the housing, a split body on said rod, a slotted strap connected to said element, a releasable nut and bolt device for locking said body to said rod and said strap to said body, and said bolt extending through the slotted portion of said strap, substantially as described.

5. In a device of the class described, the combination of a housing, a light producing element within the housing, a rod within the housing, a split body on said rod, a slotted strap connected to said element, a releasable nut and bolt device for locking said body to said rod and said strap to said body, and said bolt extending through the slotted portion of said strap, and a squared surface on said bolt engaging with the walls of said slot, substantially as described.

CHRISTEN J. PETERSON.