W. W. WILE.

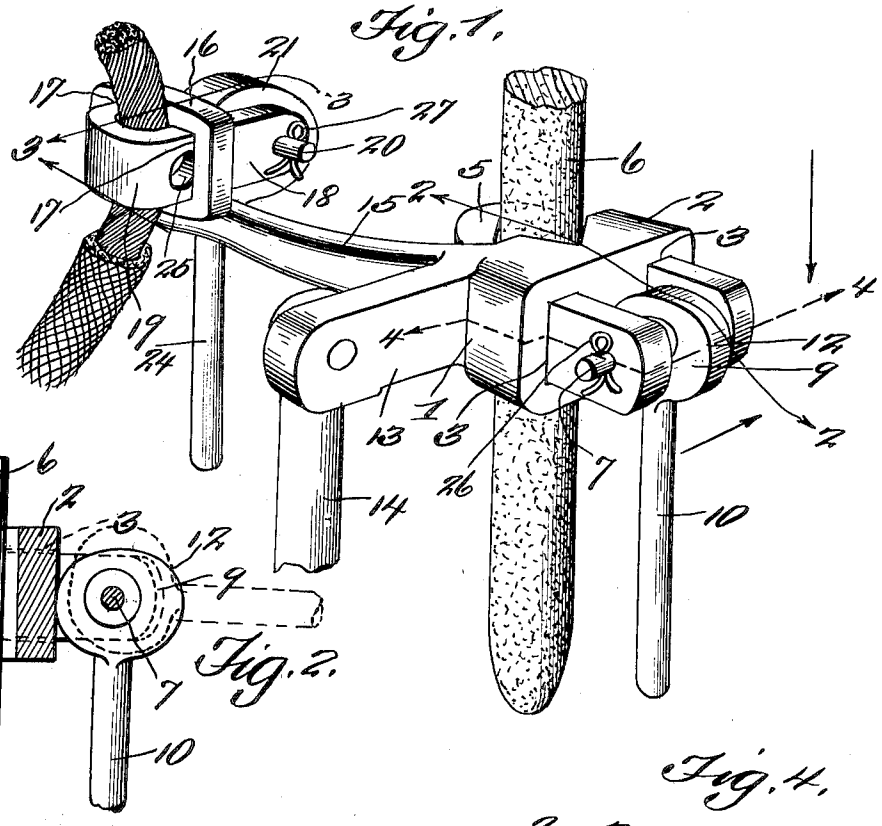
SCREWLESS CARBON HOLDER.

APPLICATION FILED OCT. 10, 1912.

1,084,379.

Patented Jan. 13, 1914.

Fig. 1.



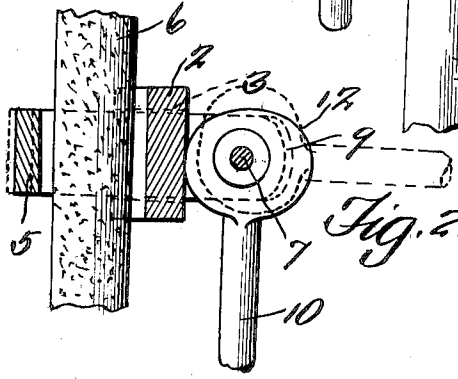


Fig. 2.

Fig. 4.

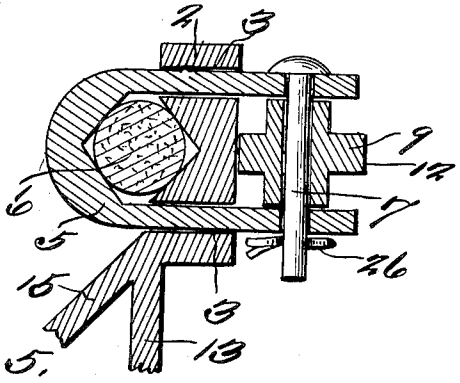


Fig. 3.

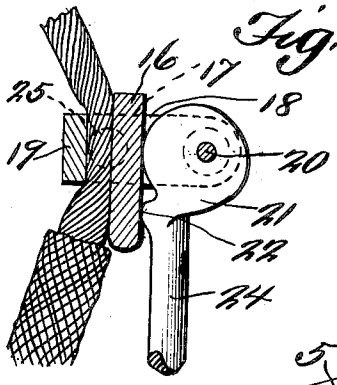
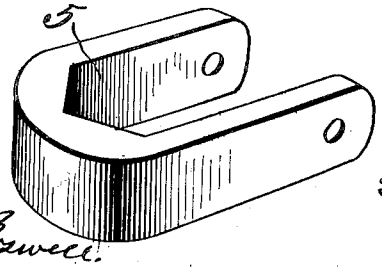


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

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SCREWLESS CARBON-HOLDER.

1,084,379. Specification of Letters Patent. Patented Jan. 13, 1914.

Application filed October 10, 1912. Serial No. 724,993.

To all whom it may concern:

Be it known that I, WILLIAM W. WILE, a citizen of the United States, residing at Bluffton, in the county of Wells and State of Indiana, have invented a new and useful Screwless Carbon-Holder; 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.

This invention relates to a new and useful carbon holder.

One of the objects of the invention is the provision of a device of this nature, particularly adapted for use in the lamp casing in the rear of the moving film of a moving picture machine.

A further object is the elimination of screws, and in lieu of the screws eccentric operative clamping means is provided for clamping or holding the carbon and a wire connection. By means of the clamping members, the old carbon may be easily and quickly detached, and a new one arranged in place.

There are disclosed in the drawing certain features of construction, but in practical fields these features may require alterations, to which the patentee is entitled, provided the alterations are comprehended within the scope of what is claimed.

The invention comprises further features and combination of parts, as hereinafter set forth, shown in the drawings and claimed.

In the drawings: Figure 1 is a view in perspective of the improved carbon holder constructed in accordance with the invention. Fig. 2 is a sectional view on line 2—2 of Fig. 1, showing the detail structure of the eccentric clamping means for clamping the carbon. Fig. 3 is a sectional view on line 3—3 of Fig. 1, showing the eccentric clamping means for clamping a conductor wire. Fig. 4 is a sectional view on line 4—4 of Fig. 1 at right angles to Fig. 2. Fig. 5 is a detail view of one of the U-shaped clamps.

Referring more particularly to the drawings 1 designates the holder having a head 2 provided with two parallel openings 3, to receive the arms 4 of the U-shaped clamp 5. The carbon 6 is clamped between the U-shaped clamp and the head, as shown in the drawings. Mounted in the arms of the U-shaped clamp is a pin 7, on which an eccentric or cam member 9 is mounted. The cam member when thrown with its arm 10 downwardly, the U-shaped clamp is drawn firmly against the carbon, but when the arm of the cam member is thrown to a horizontal position, as shown in dotted lines in Fig. 2, the U-shaped clamp is thrown sufficiently from contact with the carbon, so as to allow the carbon to be removed.

It will be seen on examining the drawings that the cam member increases at the point designated by the numeral 12, so that when the arm is thrown upwardly to a vertical position, the U-shaped clamp will be drawn closer to the head, whereby a smaller carbon may be clamped. The holder is provided with an arm 13, which is attached to a vertically movable rod 14 of a moving picture machine (not shown). The holder is provided with an additional arm 15, which terminates in a plate 16 having parallel elongated openings 17. The arms 18 of a U-shaped clamp 19 are received in the openings 17. Mounted in the arms 18 of the clamp 19 is a pin 20, on which an eccentric or cam member 21, similar to the cam 9 is mounted. However, the cam member 21 is provided with a shoulder 22, to limit the cam member 21 in its movement in one direction, while the arm 24 coming in contact with the plate limits the cam member 21 in its movement in the opposite direction. The U-shaped clamp 19 is provided with openings 25, through which a wire conductor or lead may extend, for securing the same in place, when the clamp 19 is drawn tight against the same. However, in the drawing a wire or conductor is clamped in a vertical position between the U-shaped clamp 19 and the plate. Cotter pins 26 and 27 extend through the pins 7 and 20, for securing the member in place.

The foregoing sets forth and the drawing discloses a simple and efficient screwless carbon holder, and one which has been found practical.

The invention having been set forth, what is claimed as new and useful is:—

1. In a carbon holder comprising an arm terminating in a head plate provided with parallel spaced apart oblong openings and having a flat cam engaging surface between the openings, a U-shaped clamp having spaced apart arms oblong in cross section adapted to fit and to be inserted in said opening, a pin mounted in the arms of said

clamp, and a cam member mounted upon said pin adapted to engage the flat surface between the openings for drawing the arms through the opening, whereby a member terminal may be clamped between the crotch of the clamp and the head plate, said cam member having a surface parallel with the flat surface between the openings constituting means for equally drawing the arms through the openings.

2. In a carbon holder comprising an arm terminating in a head plate provided with parallel spaced apart oblong openings and having a flat cam engaging surface between the openings, a U-shaped clamp having spaced apart arms oblong in cross section adapted to fit and to be inserted in said opening, a pin mounted in the arms of said clamp, and a cam member mounted upon said pin adapted to engage the flat surface between the openings for drawing the arms through the opening, whereby a member terminal may be clamped between the crotch of the clamp and the head plate, said cam member having a surface parallel with the flat surface between the openings constituting means for equally drawing the arms through the openings, said U-shaped clamp having oppositely arranged openings in its arms at right angles to the crotch of the clamp and adjoining the crotch, in which openings a terminal member may be clamped instead of in the crotch.

3. In a carbon holder comprising an arm terminating in a head plate provided with parallel spaced apart oblong openings and having a flat cam engaging surface between the openings, a U-shaped clamp having spaced apart arms oblong in cross section adapted to fit and to be inserted in said opening, a pin mounted in the arms of said clamp, and a cam member mounted upon said pin adapted to engage the flat surface between the openings for drawing the arms through the opening, whereby a terminal member may be clamped between the crotch of the clamp and the head plate, said cam member having a surface parallel with the flat surface between the openings constituting means for equally drawing the arms through the openings, said cam member having a lug adapted to engage the flat surface substantially between said oblong openings, to limit the cam member in its movement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM W. WILE.

Witnesses:
JACOB DETTINGER,
LLOYD W. JUDY.