May 13, 1924. 1,493,463

P. P. BROCK

LAMP HOLDER

Filed Feb. 8, 1923

FIG. 1.

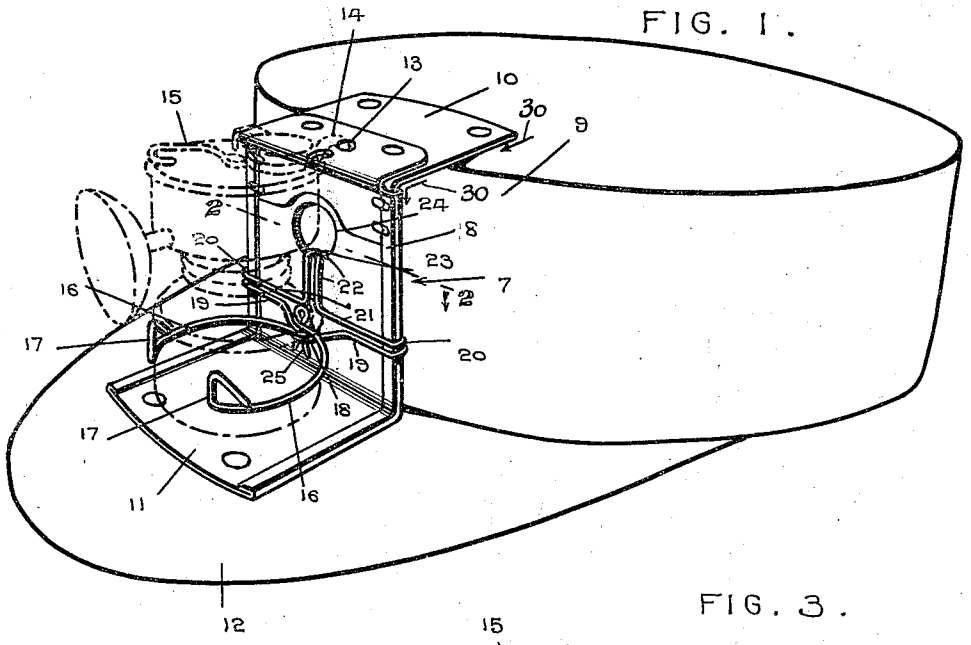


FIG. 3.

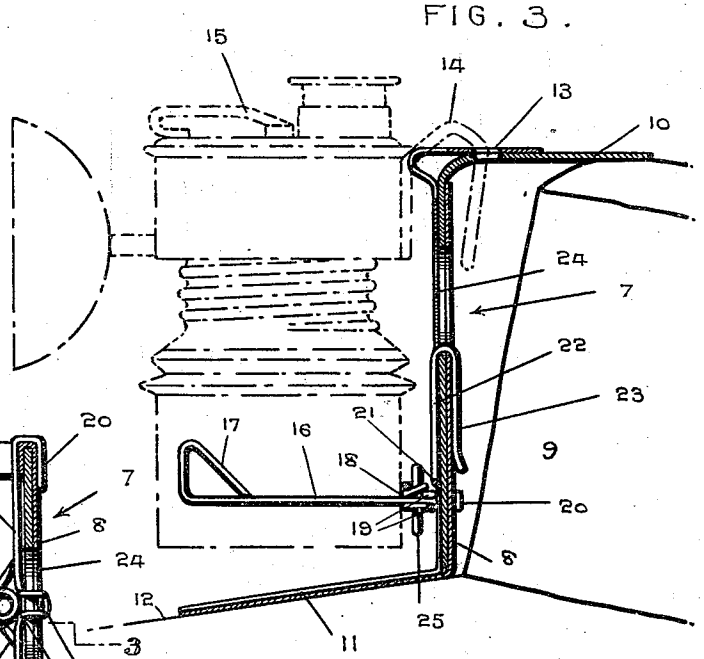
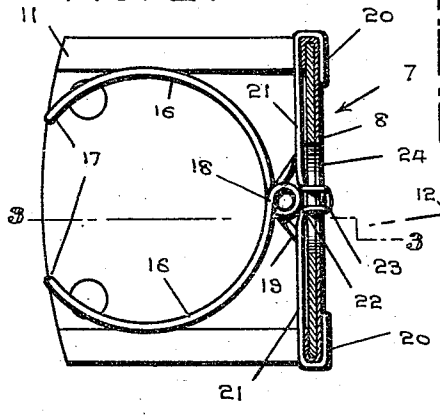


FIG. 2.



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UNITED STATES PATENT OFFICE.

PAUL PETER BROCK, OF GILLESPIE, ILLINOIS.

LAMP HOLDER.

Application filed February 8, 1923. Serial No. 617,809.

To all whom it may concern:

Be it known that I, PAUL P. BROCK, a citizen of the United States, residing at Gillespie, in the county of Macoupin and State of Illinois, have invented certain new and useful Improvements in Lamp Holders; 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.

The present invention relates to lamp holders such as used on miners' caps for holding carbide and similar lamps, and the invention aims to provide a novel and improved device having means for ready attachment to the lamp holders now in common use on miners' caps and also having a clasp to embrace and hold the lamp so as to prevent the lamp from tilting or otherwise being displaced.

Another object of the invention is the provision of such a device formed from a single length of wire or similar stock and having a novel formation for the convenient application of the device to the commonly used lamp holder.

With the foregoing and other objects in view, which will be apparent as the description proceeds, the invention resides in the construction and arrangement of parts as hereinafter described and claimed, it being understood that changes can be made within the scope of what is claimed, without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a perspective view of the device as applied.

Fig. 2 is a horizontal section on the line 2—2 of Fig. 1.

Fig. 3 is a vertical section on the line 3—3 of Fig. 2.

The present lamp holding device is designed for use in connection with a lamp holder 7 of the kind in prevailing use, such holder 7 having the vertical or upright portion 8 disposed in front of the crown 9 of the cap, a portion 10 extending rearwardly from the upper end of the portion 8 and riveted or otherwise secured on the crown 9, and a foot portion 11 extending forwardly from the lower end of the portion 8 and riveted or otherwise secured on the vizor 12 of the cap. The portion 10 has an aperture 13 for receiving the hook 14 of the lamp 15, as shown in dotted lines in Figs. 1 and 3, but the lamp is free to dangle or swing away from the holder when the head is moved, or when stooping or bending down.

The present device is intended to be applied to the holder 7 for holding the lamp firmly in place to prevent its movement or displacement relatively to the holder, and the present device constitutes a supplemental or auxiliary holder.

The device includes a clasp for embracing the body of the lamp, and such clasp comprises the opposite arcuate spring arms 16 constituting the terminal portions of a length of wire or other stock from which the device is formed. Said arms project forwardly and have their forward free ends formed with loops 17 to prevent injury from the ends of the wire, and said loops provide broad bearing surfaces to engage the lamp and hold it snugly in place. The rear ends of the arms 16 converge together and are formed with the eyes 18 disposed one above the other in superposed relation, and beyond said eyes the wire is formed with means for attachment to the holder 7.

The attaching means of the present holder includes the portions 19 extending from the eyes 18 in opposite directions, the portion 19 of each arm 16 extending toward that side opposite to the side toward which the arm extends from the eye 18, so that the wire crosses where the eyes 18 are located. At the opposite ends of the portions 19, the wire is doubled and bent back to form the looped hooks 20 to engage around and behind the vertical edges of the portion 8, and from the hooks 20, portions 21 extend toward one another above the portions 19. There are portions 22 extending upwardly from the adjacent ends of the portions 21, and the upper ends of the portions 22 are connected by a doubled and bent back portion forming a looped hook 23 to engage through an opening 24 with which the portion 8 is provided. The hook 23 provides means for suspending the device from the portion 8 at the front thereof, and the hooks 20 at the opposite sides engage the edges of the portion 8 for preventing transverse displacement of the device.

The device can be readily applied by engaging the hooks 20 behind the edges of the portion 10 and sliding the device forwardly and then downwardly along the edges of the portions 10 and 8, as indicated

by the arrows 30 in Fig. 1, and the hook 23 is moved through the opening 24 when the device reaches its proper position. The hooks 20 can be separated, in sliding the device into place, on account of the resiliency of the wire and the fact that the shank portions 19 and 21 of the hooks 20 are disconnected at their adjacent ends, it being noted that the portions 19 are disconnected, while the portions 22 are connected to the shank portions of the hook 23. The portions 22 being resilient can be separated for the separation of the hooks 20. It is thus possible to stretch the device transversely for the separation of the hooks 20 to engage them around and behind the edges of the portion 10 and to enable the device to slide easily to its place on the holder 7. A cotter pin 25 or other securing element is then engaged through the registering eyes 18, which will secure the portions 19 together, so that the hooks 20 cannot be separated. This will fasten the device to the holder 7 against accidental removal, and, furthermore, the clasp arms 16 are secured together at their rear adjacent ends to make the clamp stronger. The arms 16 will then hold the lamp firmly in place by embracing the lamp as shown in the drawings.

Having thus described the invention, what is claimed as new is:—

1. A lamp holding device of the character described constructed of wire and comprising means for embracing a lamp, opposite hooks to engage the edges of a lamp holder, and portions connecting said hooks and aforesaid means and including a doubled resilient portion between said hooks for drawing the hooks toward one another into engagement with said edges of the lamp holder and permitting the hooks to be pulled in opposite directions away from one another out of engagement with said edges.

2. A lamp holding device of the character described comprising means for embracing a lamp, opposite hooks to engage the edges of a lamp holder, and means connecting said hooks and aforesaid means and including a resilient portion between said hooks for drawing the hooks toward one another into engagement with said edges of the lamp holder and permitting the hooks to be pulled in opposite directions away from one another out of engagement with said edges, the lastnamed means including securing elements to prevent the separation of said hooks.

3. A lamp holding device of the character described comprising clasp arms for holding a lamp, hooks to engage opposite edges of a lamp holder, portions connecting said hooks and arms, and other portions connecting said hooks and including a doubled resilient portion between the hooks for drawing the hooks toward one another into engagement with said edges and permitting the hooks to be pulled in opposite directions away from one another out of engagement with said edges.

4. A lamp holding device of the character described comprising clasp arms for holding a lamp, hooks to engage opposite edges of a lamp holder, portions connecting said hooks and arms, and other portions connecting said hooks and including a resilient portion for drawing the hooks toward one another into engagement with said edges and permitting the hooks to be pulled in opposite directions away from one another out of engagement with said edges, some of said portions having means for securing them together to prevent said hooks from being separated.

5. A lamp holding device of the character described comprising clasp arms for holding a lamp, hooks to engage opposite edges of a lamp holder, portions connecting said hooks and arms and crossing one another, and a resilient connection between said hooks adapted to be stretched for separating the hooks, said portions being formed at the point of crossing for the engagement of a securing element to prevent the hooks being separated.

6. A lamp holding device of the character described comprising clasp arms, hooks to engage opposite edges of a lamp holder, portions connecting said hooks and arms and crossing one another, said portions having eyes at the point of crossing to register for the reception of a securing element to prevent the hooks being separated, and a resilient connection between the hooks to permit the hooks to be separated when said securing element is removed.

7. A lamp holding device of the character described comprising means for embracing a lamp, hooks connected to said means to engage opposite edges of a holder and adapted to be separated, and a resilient hook portion between and connected to said hooks and adapted to be sprung to permit said hooks to be separated, and to engage the holder for supporting the device.

8. A lamp holding device of the character described comprising means for embracing a lamp, hooks to engage opposite edges of a holder and connected to said means, said hooks being adapted to be separated, portions extending from said hooks toward one another, portions extending from said portions at an angle, and a hook connecting the last named portions to engage the holder, said lastnamed portions and hook being resilient for the separation of the firstnamed hooks and portions.

9. A lamp holding device of the character described comprising clasp arms for holding

a lamp, hooks to engage opposite edges of a holder, portions connecting said hooks and arms, portions extending from said hooks toward one another, portions extending from the lastnamed portions at an angle therewith, and a hook connecting the thirdnamed portions to engage the holder, the lastnamed hook and thirdnamed portions being resilient to permit the firstnamed hooks and secondnamed portions to be separated, some of said portions having means for securing them together to prevent separation of the firstnamed hooks.

10. A lamp holding device of the character described comprising clasp arms for holding a lamp, hooks to engage opposite edges of a holder, portions connecting said hooks and arms and crossing one another, said portions having eyes at the point of crossing for the reception of a securing element to prevent said hooks being separated, portions extending from said hooks toward one another, portions extending from the secondnamed portions at an angle and adapted to be separated, and a hook connecting the lastnamed portions to engage the holder.

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

PAUL PETER BROCK.

Witnesses:
AUGUST KATZMARCK,
HERMAN SPRINGER.