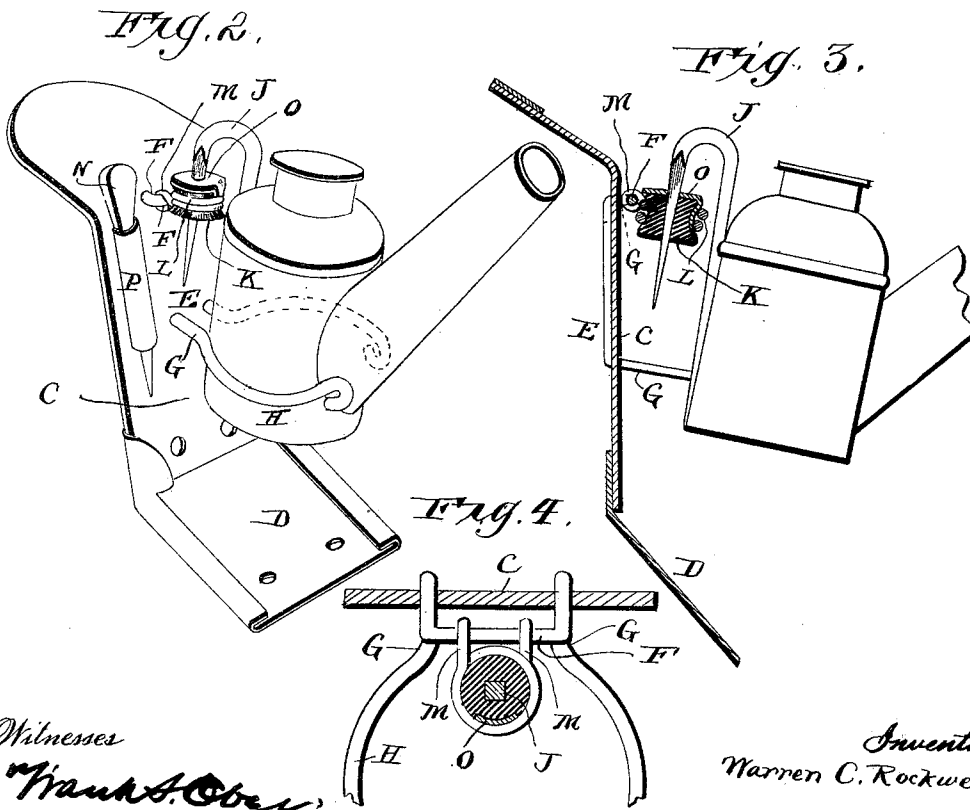
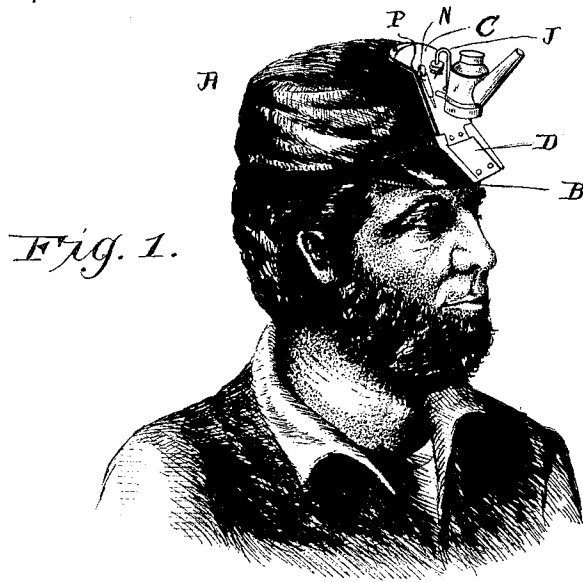


(No Model.)

W. C. ROCKWELL.  
ATTACHMENT FOR MINERS' LAMPS.

No. 410,562.

Patented Sept. 3, 1889.



Witnesses

Frank A. Ober,

R. W. Bishop.

Inventor  
Warren C. Rockwell.

By his Attorneys

C. A. Snow & Co.

# UNITED STATES PATENT OFFICE.

WARREN C. ROCKWELL, OF MOUNT CARMEL, PENNSYLVANIA, ASSIGNOR TO  
ISAAC GOLDSCHMIDT AND GEORGE B. RENN, OF SAME PLACE.

## ATTACHMENT FOR MINERS' LAMPS.

SPECIFICATION forming part of Letters Patent No. 410,562, dated September 3, 1889.

Application filed March 13, 1889. Serial No. 303,119. (No model.)

*To all whom it may concern:*

Be it known that I, WARREN C. ROCKWELL, a citizen of the United States, residing at Mount Carmel, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Improvement in Lamp-Holding Attachments for Miners' Caps and Hats, of which the following is a specification.

My invention relates to improvements in lamp-holding attachments for miners' caps and hats; and it consists in certain novel features, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a cap, showing my attachment applied thereto and supporting the lamp. Fig. 2 is a perspective view of the attachment removed from the cap. Fig. 3 is a longitudinal section of the attachment. Fig. 4 is a transverse section on an enlarged scale.

Referring to the drawings by letter, A designates a cap or hat of the usual or any preferred construction and provided with an ordinary visor B.

My attachment consists of a leather plate C of suitable thickness to form a rigid support for the lamp and a proper size to extend up the front side of the cap or hat and slightly over the top of the same. The upper end of this plate is secured permanently to the cap, and its lower end is secured to the upper end of a metallic plate D, and also to the side of the cap. The metallic plate D extends down the front side of the visor and has its front end secured thereto. This metallic plate serves to deflect the drippings from the lamp and prevent the visor from becoming saturated with the oil.

E designates a wire bracket, which is supported by the leather plate C, and is adapted to hold the lamp. The bracket consists of a single wire bent at its center to form the cross-bar or loop F and the arms G, extending therefrom. The said arms G are passed through the plate C, and then downward in rear of the same to a point at about the center thereof, and are then bent forward and extended through the said leather plate to form the lamp-supporting arms. These lamp-supporting arms are formed by bending the extremi-

ties of the arms G outward in a slight curve, as shown at H, and the said curved portions fit around the lower portions of the body of the lamp, as shown in Fig. 2. The hook J on the lamp is passed through a central perforation in a rubber or leather block K, and the said block is secured in position by the coiled wire L, the ends of which form eyes or loops M, which engage the cross-bar or loop F, so as to form hinges, by which the said coiled wire will be secured to the lamp-holding bracket. The rubber or leather block K is protected by a metallic shield or plate O, which is secured to the center of the coil and extends over the block. This plate O extends over the block K and protects the same against flame, so as to prevent its being burned thereby.

P designates a keeper secured to the front side of the leather plate and adapted to receive the picker N, which is used to trim the lamp.

From the foregoing description, taken in connection with the accompanying drawings, the manner of using my device and the advantages of the same will be readily understood. The plates C D are secured to the cap, and the lamp is then placed in position on the lamp-supporting bracket, when the device will be ready for use. As the central perforation in the block K becomes worn, the coils of the wire L are compressed in rear of the block, so as to force the same into a more compact form, and thereby diminish the size of said perforation. The durability of the said block is thus increased and the lamp effectually held at all times so that it cannot swing. The hinged connection of the rubber or leather holding coils to the lamp-supporting bracket enables the lamp to swing outward when the miner stoops or bends his head, so as to prevent the oil running out through the spout. The arms G should fit the lamp so as to prevent all lateral movement thereof, and at the same time allow it to have sufficient forward movement to accommodate itself to the position of the miner's head and prevent loss of the oil. The coils which encircle the rubber or leather block may be formed inte-

gral with the lamp-supporting bracket, if so desired, and it may sometimes be preferred to so construct it.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a lamp-holding attachment for miners' caps or hats, the combination, with the lamp-supporting bracket carrying the coils L, of the block K, fitted in said coils and having the central perforation for the reception of the lamp-hook, as set forth.

2. In a lamp-holding attachment for miners' caps or hats, the combination, with the lamp-supporting bracket and the coils L, of the block K, fitted in said coils and having a central perforation, and the plate O, secured to the coil and extending over the said block, as set forth.

3. The combination, with the plate C, of the wire bracket secured thereto, carrying the coils L and having the curved portions H, and the block fitted in said coils, as set forth.

4. The improved lamp-holding attachment for miners' caps or hats, consisting of the leather plate C, the metallic plate D, secured to the lower end thereof, the keeper P, secured on the front side of the plate C, the lamp-

holding bracket secured to said plate and carrying the coils L, and the elastic block fitted in said coils, as set forth.

5. The combination of the lamp-holding bracket, the coils hinged thereto, and the elastic block fitted in the coils, as set forth.

6. The combination of the bracket and the swinging elastic block supported thereby, as set forth.

7. In a lamp-holding attachment, the plate C, the bracket E, secured thereto and having its lower end bent to form clamping-arms G for the lamp, and the block K, attached to the upper end of the bracket E and provided with a perforation for the passage of the hook of the lamp, as set forth.

8. In a lamp-holding attachment, the plate C, attached to the miner's hat or cap, the block K, hinged to the plate C to receive the lamp-hook, and the clamping-arms G for the lamp, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WARREN C. ROCKWELL.

Witnesses:

W. B. FAUST,  
HENRY WERTZ.