(No Model.)

R. A. MILLER.

MINING LAMP.

No. 589,441. Patented Sept. 7, 1897.

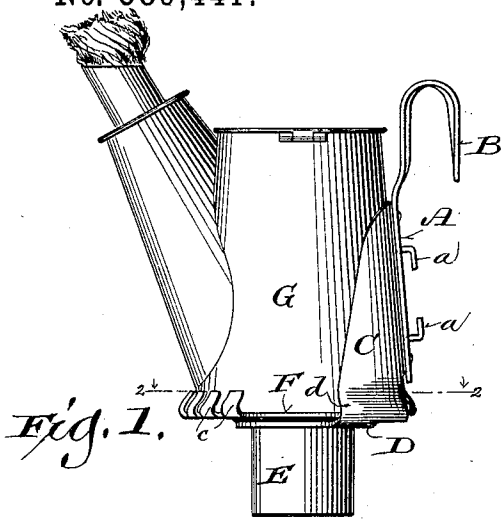


Fig. 1.

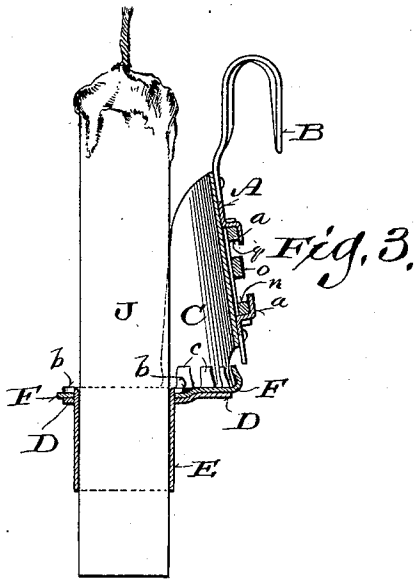


Fig. 3.

Fig. 2.

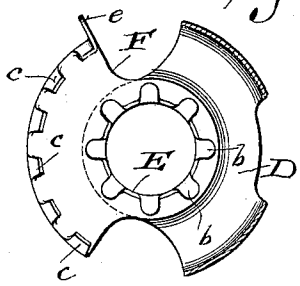


Fig. 4.

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UNITED STATES PATENT OFFICE.

ROBERT A. MILLER, OF MENOMINEE, MICHIGAN, ASSIGNOR OF ONE-HALF TO CHARLES H. TREIBER, OF NORWAY, MICHIGAN.

MINING-LAMP.

SPECIFICATION forming part of Letters Patent No. 589,441, dated September 7, 1897.

Application filed October 11, 1894. Serial No. 525,575. (No model.)

To all whom it may concern:

Be it known that I, ROBERT A. MILLER, a citizen of the United States, residing at Menominee, in the county of Menominee and State of Michigan, have invented certain new and useful Improvements in Miners' Lamp and Candle Holders, of which the following is a full, clear, and exact description.

My invention relates to a device for the support of either a mining lamp or candle; and it consists in certain peculiarities of construction and combination of parts, as will be fully set forth hereinafter and subsequently claimed.

In the drawings, Figure 1 is a side view of my device with a mining-lamp supported thereby. Fig. 2 is a horizontal sectional view on the line 2 2 of Fig. 1 with the lamp removed. Fig. 3 is a vertical sectional view on the line 3 3 of Fig. 4, showing a candle supported by my said device. Fig. 4 is a rear view of my device, showing a candle supported thereby and also showing the combined supporting-spear and wick-trimmer secured thereto.

In the art of mining it frequently happens that in one part of the mine it is necessary or desirable to burn lamps and in other parts of the same mine to burn candles, and hence my device is adapted to support either a lamp or a candle at any time and to be readily adjusted to change from one to the other, as required. It also happens frequently that it is desirable to take the holder with its light from the miner's hat, where it is ordinarily carried, and support the same from the side timbers or roof of a drift or tunnel, and my said device is hence provided with means for this purpose, as well as means for trimming the wick of the lamp or candle, as is hereinafter specified.

Referring to the drawings, A represents the back plate of my device bent over and pointed at its upper end to form a sharp hook B. Two opposing fingers *a a*, pressed or stamped out of the metal of which the back plate is formed, are designed to receive the combined spear and wick-trimmer, as shown in Fig. 4, and subsequently explained.

C is a shield to which the back plate is riveted or otherwise attached, and this shield has a horizontal base D, perforated for the reception of the candle-socket E, soldered or otherwise attached thereto.

F is a plate perforated for the reception of the candle-socket E and resting on the base D, the upper end of the candle-socket being split to form lips *b b*, bent over the top surface of the plate F to hold the latter in place and permit of its free movement on the base D. A segment of the edge of the plate F is formed into lips *c c*, bent upward and backward, so as to hold an edge of the base of a mining-lamp G, when one is used, the opposite part of the base edge of the lamp being received within a groove *d* in the shield C, all as shown in Fig. 1, and when the lamp is not in use the plate F is swung around so that the segment of its edge which has said lips *c c* is received within said groove *d*, there being a stop *e* at the end of said segment of the plate to limit this movement and form a means of manipulating the plate F.

K represents the spear, hereinbefore referred to, and *k* is a shear-blade secured to one shank *n* of said spear, *m* being the other shear-blade at the end of the other shank *o*, which shank has a loop *p* for the thumb of the user, and is continued beyond said loop into another forwardly-projecting spring-shank *q*. The shank *n* terminates in a loop *r* for the forefinger of the user. The shear-blades are used to trim the wicks of the candles or lamps, and the shanks *n q* are provided with recesses *s t*, whereby the said shanks are securely held in place between the described fingers *a a* on the back plate A of the device, as best shown in Fig. 4. When thus secured, the lamp or candle holder may be supported by driving the spear K into a side timber or post in a mine, or the spear and wick-trimmer may be released by pressing the shanks *q n* toward each other, and then the spear may be driven into the roof of a tunnel or drift and the device suspended by hooking the hook B into one of the loops *p* or *r*. Otherwise the device may be carried on the hat of the miner, being hooked thereto in the ordinary manner.

My device will be found extremely convenient and a great improvement on the ordinary lamp or candle holders in common use by miners. The shield C forms a secure backing

for the lamp G, when that is used, and when a candle J is used serves as a guard to prevent danger from the flames of the candle (as to the miners' hat) when the candle is partly consumed.

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

1. A miner's lamp and candle holder comprising an upright shield with a horizontal perforated base, a back plate secured to said shield and terminating in a hook, a candle-socket extending through said perforated base and a perforated lamp-holding plate pivotally mounted on said candle-socket and resting on said base, substantially as set forth.

2. A miner's lamp and candle holder comprising an upright shield with a horizontal perforated base, a back plate secured to said shield and terminating in a hook, and having oppositely-extending fingers projecting from its rear surface, a candle-socket and movable lamp-holding plate attached to said base, and a combined spear and wick-trimmer provided with spring-shanks having recesses therein for engagement with said fingers on the back plate, substantially as set forth.

This specification signed and witnessed this 27th day of September, 1894.

ROBERT A. MILLER.

Witnesses:
W. H. BALL,
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