(No Model.)

M. RAKER.

MINER'S LAMP.

No. 574,821. Patented Jan. 5, 1897.

Fig. 1.

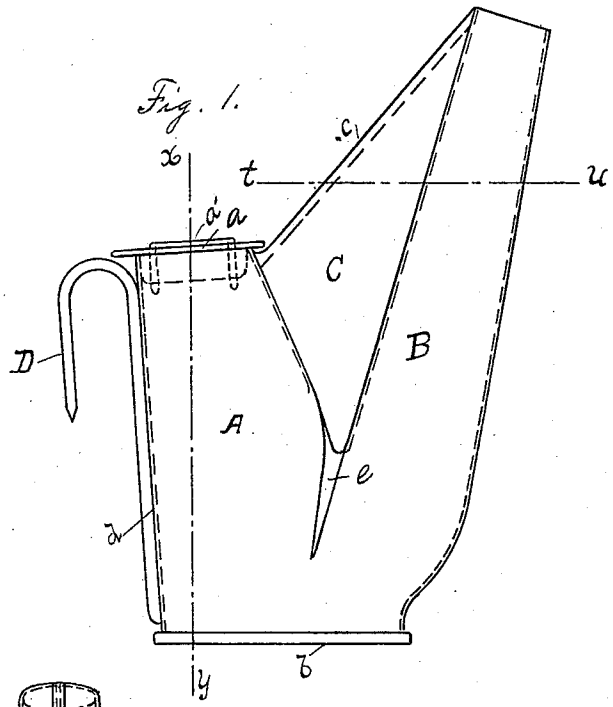
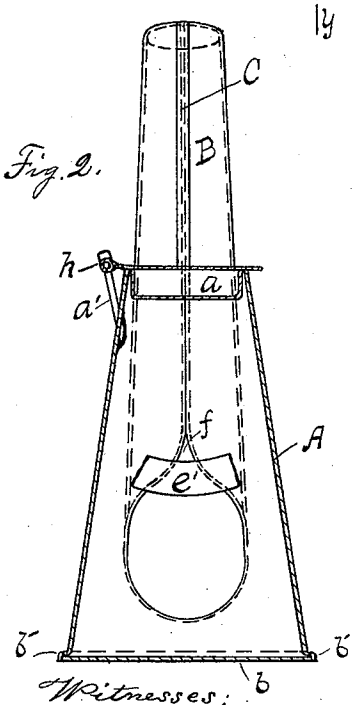


Fig. 2.



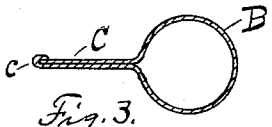
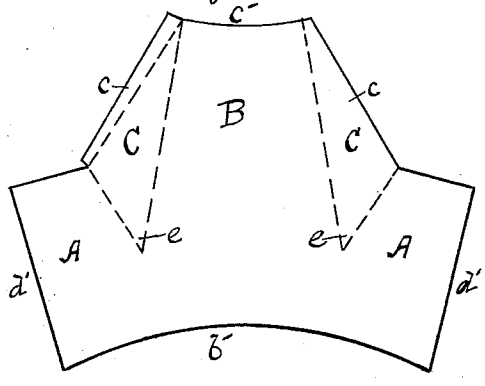


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

MOSES RAKER, OF OLYPHANT, PENNSYLVANIA.

MINER'S LAMP.

SPECIFICATION forming part of Letters Patent No. 574,821, dated January 5, 1897.

Application filed April 11, 1896. Serial No. 587,122. (No model.)

To all whom it may concern:

Be it known that I, MOSES RAKER, a citizen of the United States, residing at Olyphant, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Miners' Lamps; and I 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of miners' lamps which are fastened to the hat of the miners when at work; and the objects of the invention are to furnish a simpler, cheaper, and stronger construction in such lamps, to provide a lamp without soldered seams that will melt away or open, to provide a seamless body in such lamps, and to improve the form thereof. I attain these objects by the construction and arrangement of parts herein fully set forth, and illustrated in the accompanying drawings.

Referring to the drawings, Figure 1 is a side elevation of one of my improved lamps. Fig. 2 is a view, partly in cross-section, on the line *x y* of Fig. 1. Fig. 3 is a view in cross-section on the line *t u* of Fig. 1. Fig. 4 is a diagram showing the pattern used in cutting out plate metal from which the body and wick-tube of my lamp are fashioned. The scale used in Fig. 4 is one-half that used in the other figures.

Similar letters of reference refer to similar parts throughout the several views.

A designates the oil-receptacle or body of my lamp, and B designates the wick-tube, which is integrally made therewith from any suitable thin plate metal. In constructing my lamp a piece of plate metal is taken of a pattern substantially as that shown in Fig. 4, having the wings A A, designed to form the body portion, the central portion B, bounded above by the curved line *c'* and below by the greater curved line *b'*, adapted, respectively, to form the rim of the wick-tube and the swaged portion to which the bottom *b* is attached, and also having the areas C C, adapted to be pressed together to form the web or bracing portion between the body and wick-tube, (designated also C.) The edge *c* of one part is left long enough to fold over, as shown in Fig. 3. The process of manufacture is of course facilitated by the aid of proper dies to shape the metal. The edges *d'* are brought together and form the seam *d*, over which the hook D of the lamp is soldered, the said hook D being made of a plain round wire of proper thickness. The body of the lamp is also fitted with the lid *a*, attached to the staple *a'* by the hinge *h*, on which the lid swings. The two sides of the wick-tube are more firmly held by means of a small plate *e'*, which connects them at the angle *e*, and is firmly soldered on.

In providing the lamp with wick the small plate *e'* serves also to prevent fibers of the wick from wedging up into the angle *f* of the wick-tube. In using my lamp the annoyance of melting off the wick-tube or melting away the solder from any of the seams is eliminated, as by the construction disclosed there are no soldered seams near the wick-tube end which could cause leaking of oil by melting away of solder.

What I claim, and desire to secure by Letters Patent, is—

A blank for forming a miner's lamp from a single piece of metal, consisting of the body portion or wings, the wick-tube, and the braces; the body portion being separated from the braces at its top edge, at an acute angle, and the braces being made to extend from opposite edges of the wick-tube and made widest at their lower ends, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

MOSES RAKER.

Witnesses:
CHAS. W. DAWSON,
FRED. J. SAMPSON.