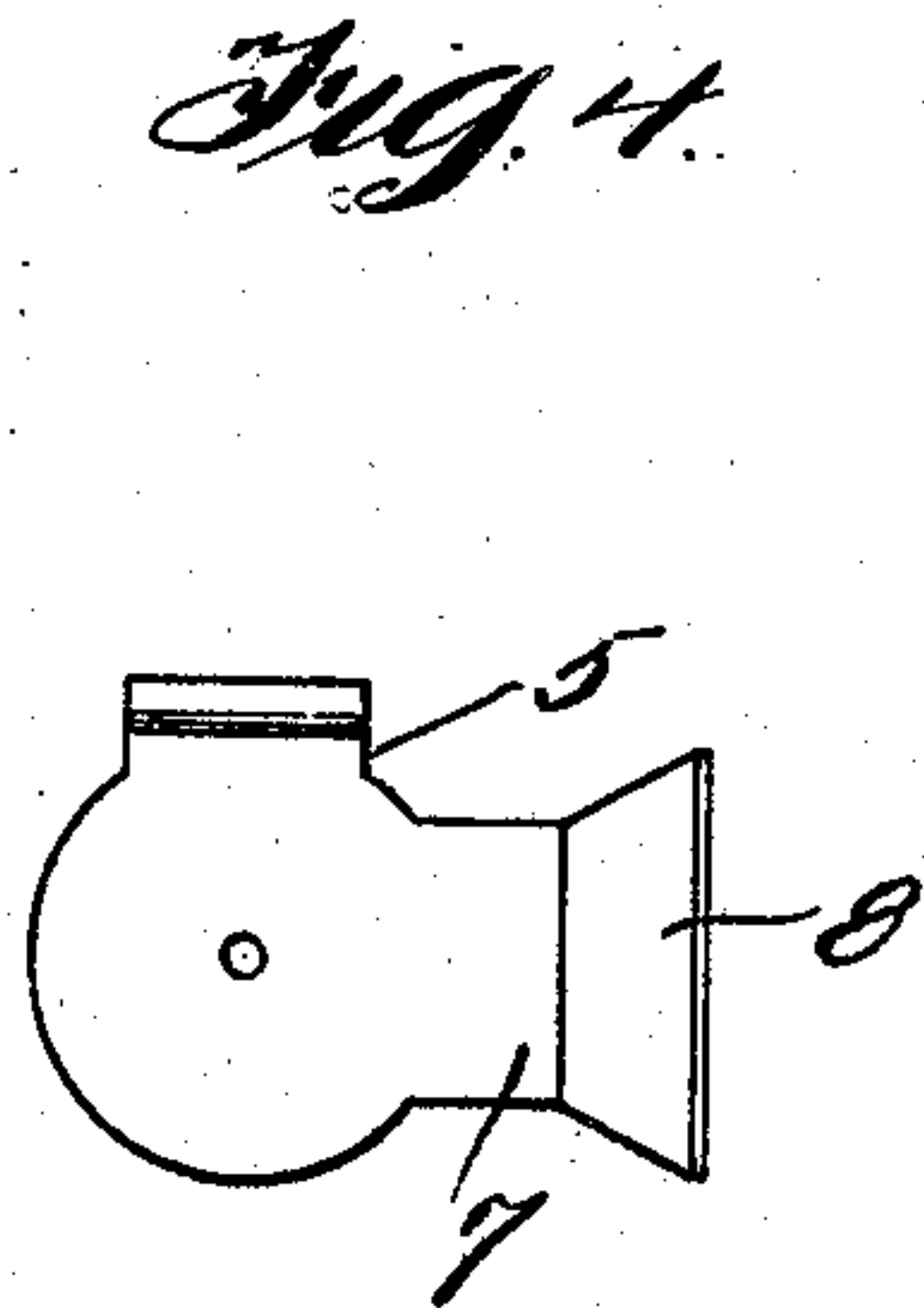
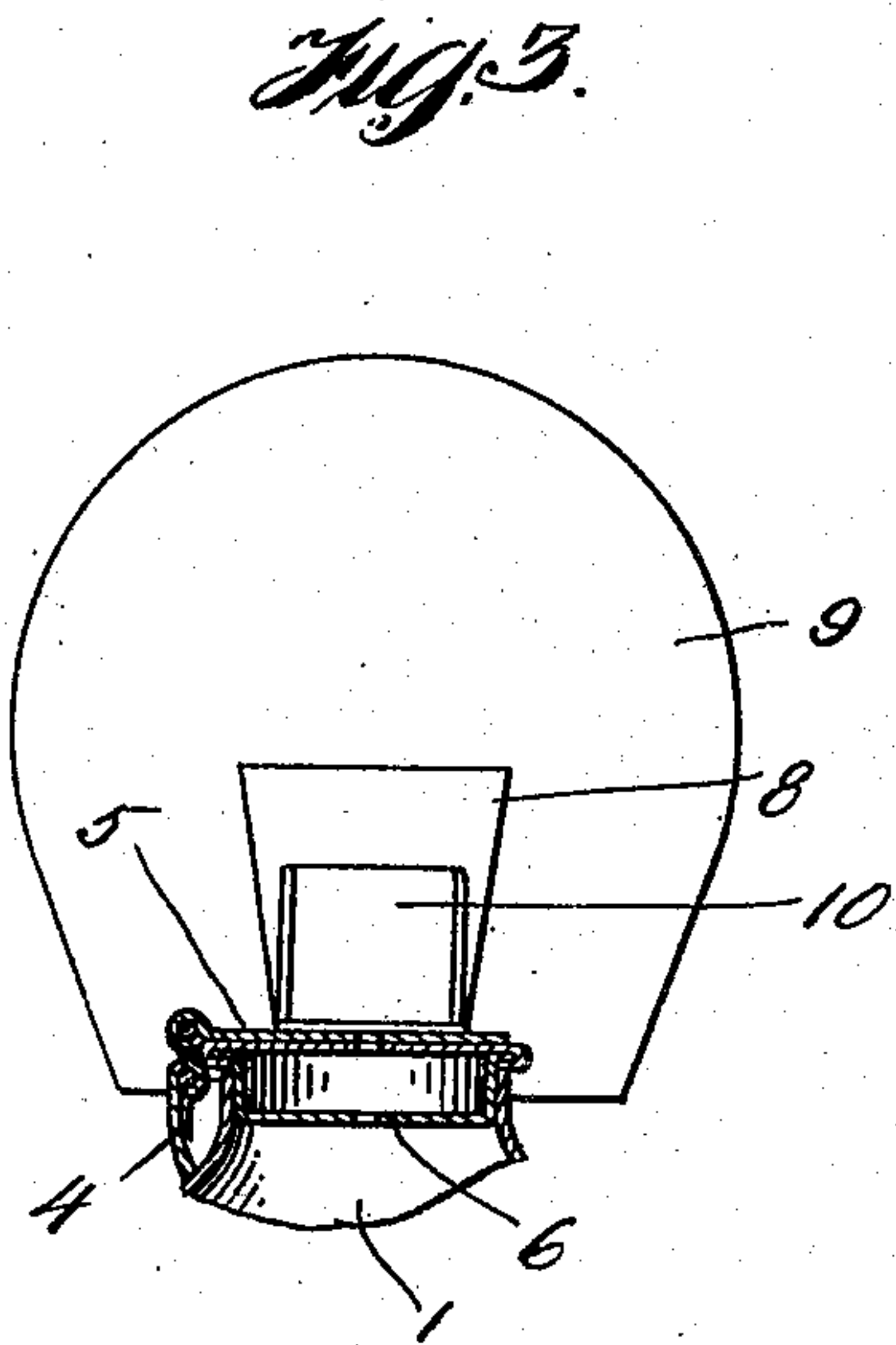
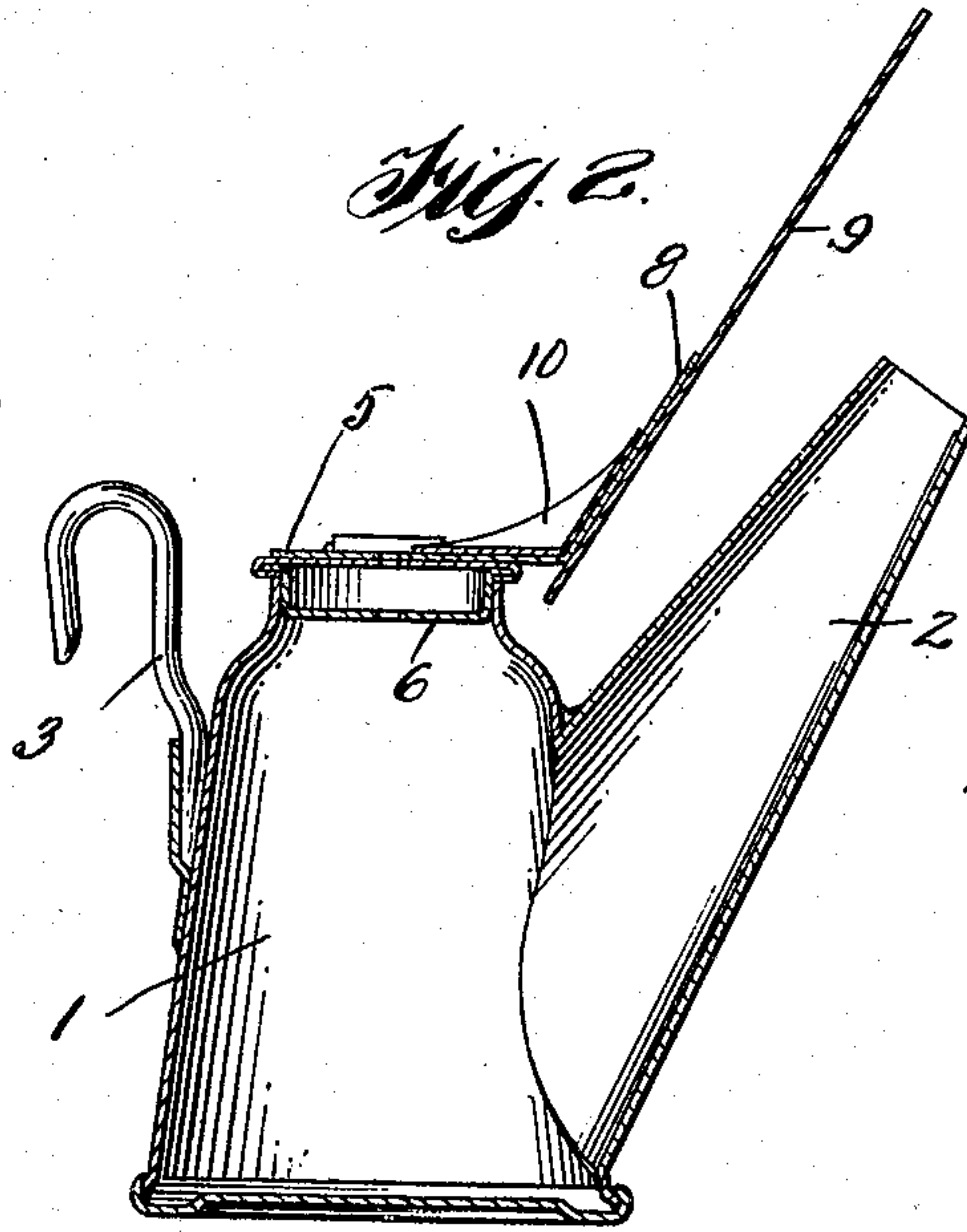
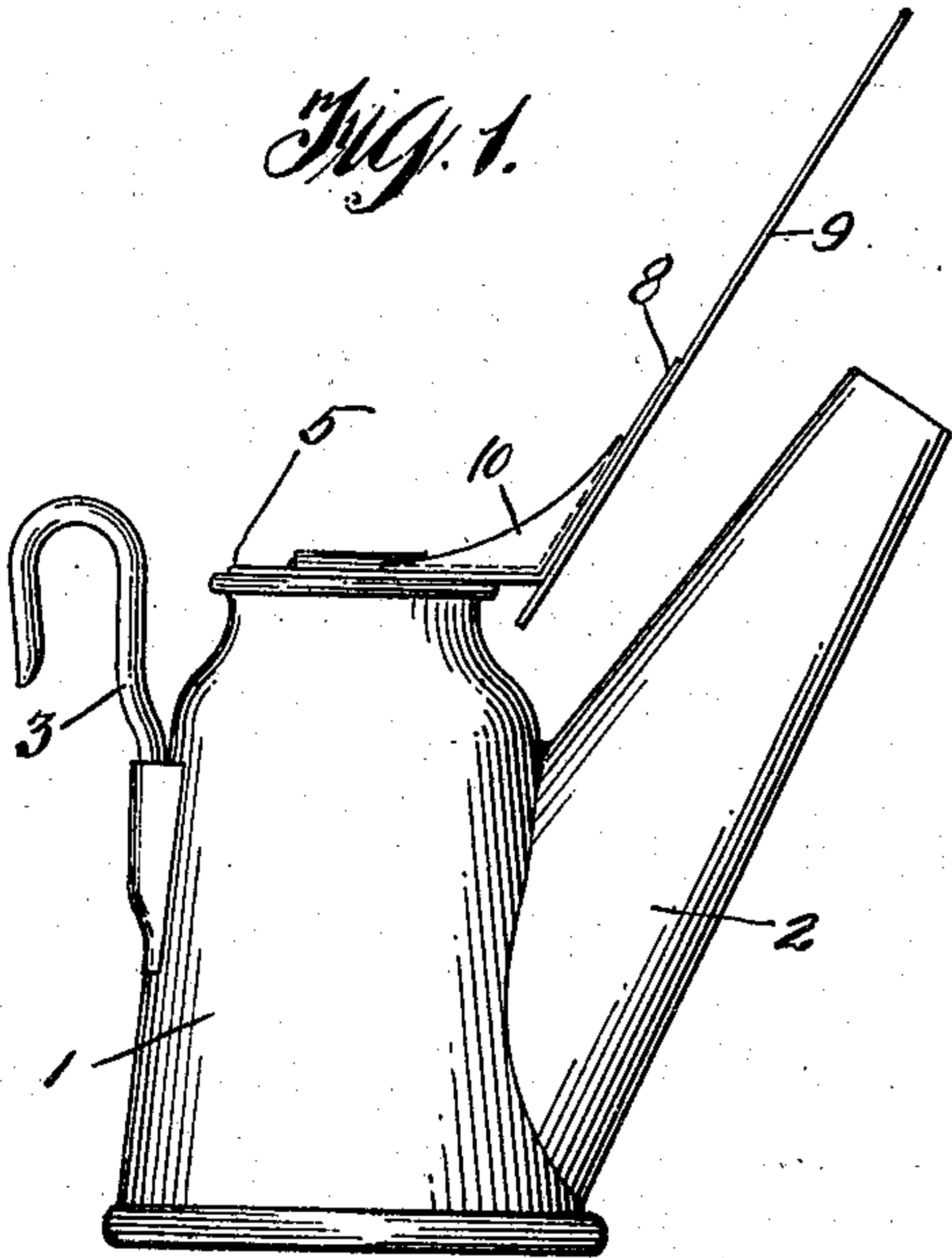


Z. HOUGH & L. F. WEAVER.
REFLECTOR FOR MINERS' LAMPS.
APPLICATION FILED FEB. 1, 1909.

923,655.

Patented June 1, 1909.



Witnesses

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UNITED STATES PATENT OFFICE.

ZACHARIAH HOUGH AND LESLIE F. WEAVER, OF BANNING, PENNSYLVANIA.

REFLECTOR FOR MINERS' LAMPS.

No. 923,655.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed February 1, 1909. Serial No. 475,498.

To all whom it may concern:

Be it known that we, ZACHARIAH HOUGH and LESLIE F. WEAVER, citizens of the United States of America, residing at Banning, in the county of Fayette and State of Pennsylvania, have invented certain new and useful Improvements in Reflectors for Miners' Lamps, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to miners' lamps, and more particularly to the flame reflectors and shields thereof.

The primary object of our invention is to provide a miner's lamp with a movable reflector which will facilitate the filling of the lamp with oil.

Another object of our invention is to mount a reflector or shield upon the lid of the miner's lamp, whereby when the lid is open, the shield or reflector will be moved away from the flame of the lamp, permitting of the miner observing the interior thereof to determine when the lamp has been filled.

We are aware of the fact that reflectors and shields have heretofore been provided on the spout of a miner's lamp, but so far as we are aware of, these have generally been arranged in such position as to occasion considerable trouble in filling the lamp, particularly since the interior of the lamp cannot be observed, and consequently when filling the lamp the illuminating oil often overflows causing a waste, which our invention aims to obviate by allowing rays of light to enter the body of the lamp, whereby the filling process of the same may be easily observed.

The detail construction entering into our invention will be hereinafter described and then specifically claimed.

Referring to the drawings:—Figure 1 is a side elevation of the lamp constructed in accordance with our invention, Fig. 2 is a vertical sectional view of the same, Fig. 3 is a vertical cross sectional view of a portion of the lamp illustrating the reflector or shield in elevation, and Fig. 4 is a plan of a reflector or shield holder detached from the lid of the lamp.

In the accompanying drawings, 1 design-

ates the receptacle or body of a miner's lamp, said body having a spout 2 upon one side thereof and a hook 3 upon the opposite side, whereby the lamp can be attached to a miner's cap. The upper end of the receptacle or body 1 is contracted and provided with a hinge member 4 for a hinge member 5 adapted to support a lid 6 for closing the mouth of the receptacle or body.

In constructing the hinge member 5, we provide the same with an extension 7 having an angularly disposed dove-tailed tongue 8. Adapted to be soldered or otherwise secured to the tongue 8 is a reflector or shield 9 extending upwardly at an angle to the lid 6, and in a plane approximately parallel with the longitudinal axis of the spout 2. To reinforce the tongue 8, the hinge member 5 is provided with a bracket 10, which is soldered or otherwise secured to the hinge member 5 and the tongue 8.

It is apparent that when the lid 6 is swung to an open position that the reflector or shield 9 will be carried with said lid, consequently rays of light from the lamp can enter the receptacle or body 1, and the operation of pouring oil into the same fully observed. With the lid in a closed position, the shield or reflector 9 serves functionally the same purpose as the shield or reflector at present carried by the spout 2 of the lamps now in use.

While in the drawings forming a part of this application there is illustrated the preferred embodiments of our invention, we would have it understood that the detail construction thereof can be varied or changed without departing from the spirit of the invention.

Having now described our invention what we claim as new, is:—

1. The combination with a miner's lamp body, and a lid therefor, of a hinge-member carrying the lid and provided with an extension projecting beyond the neck of the lamp body and terminating in a tongue disposed at an angle to the extension, and a reflector secured to said tongue.

2. The combination with a miner's lamp comprising a receptacle or body, of a hinge member carried thereby, a lid secured to said member, a tongue carried by said member, a

reflector secured to said tongue, and a bracket mounted upon said member and reinforcing said tongue.

3. The combination with a miner's lamp
5 having a hinge member for supporting the lid thereof, of a reflector carried by said member, and a bracket secured to said member and reinforcing said reflector.

In testimony whereof we affix our signatures in the presence of two witnesses.

ZACHARIAH HOUGH.
LESLIE F. WEAVER.

Witnesses:

MAX H. SROLOVITZ,
C. V. BROOKS.