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PATENTED MAY 30, 1905.

I. WANTLING & S. DOUBET.
MINER'S LAMP HOLDER AND HEAD PROTECTOR.

APPLICATION FILED DEC. 1, 1904.

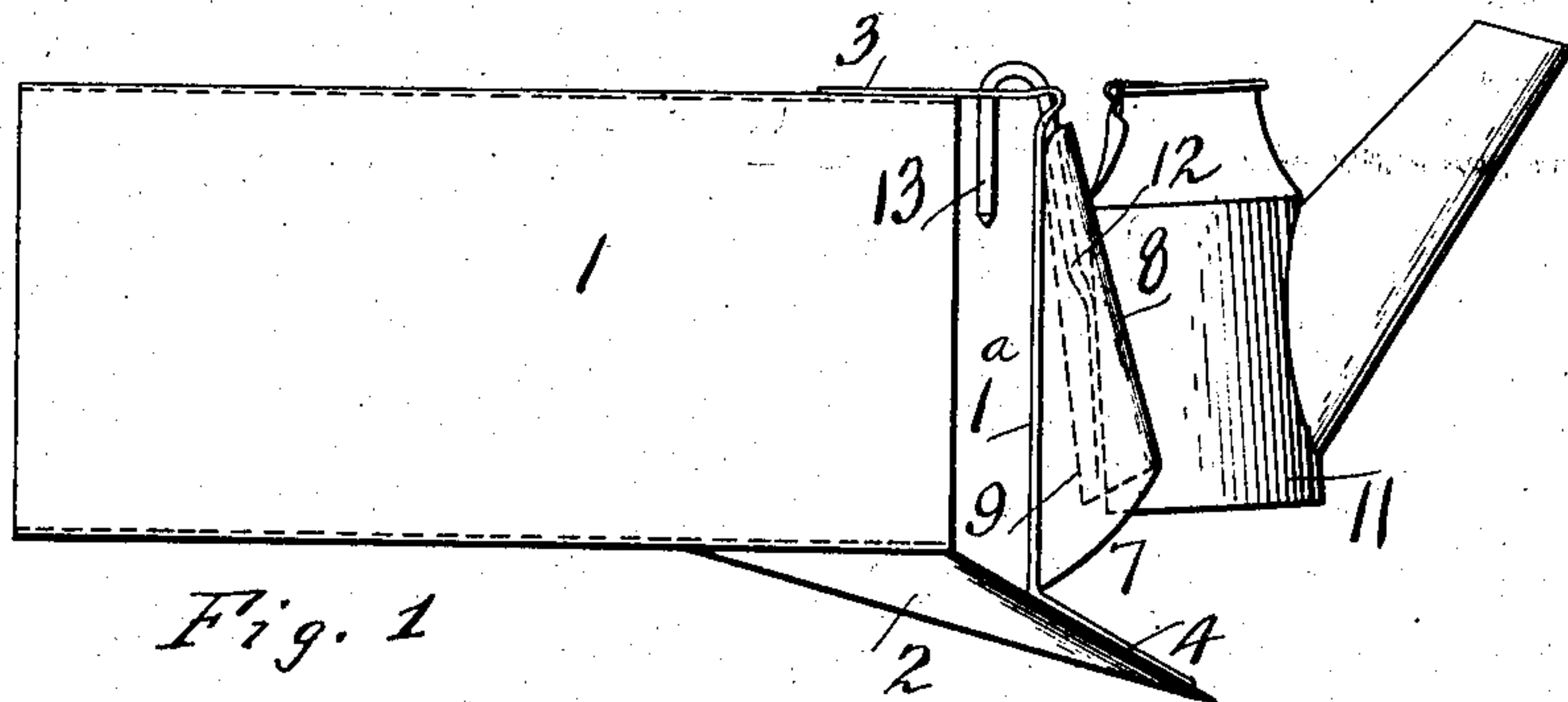


Fig. 1

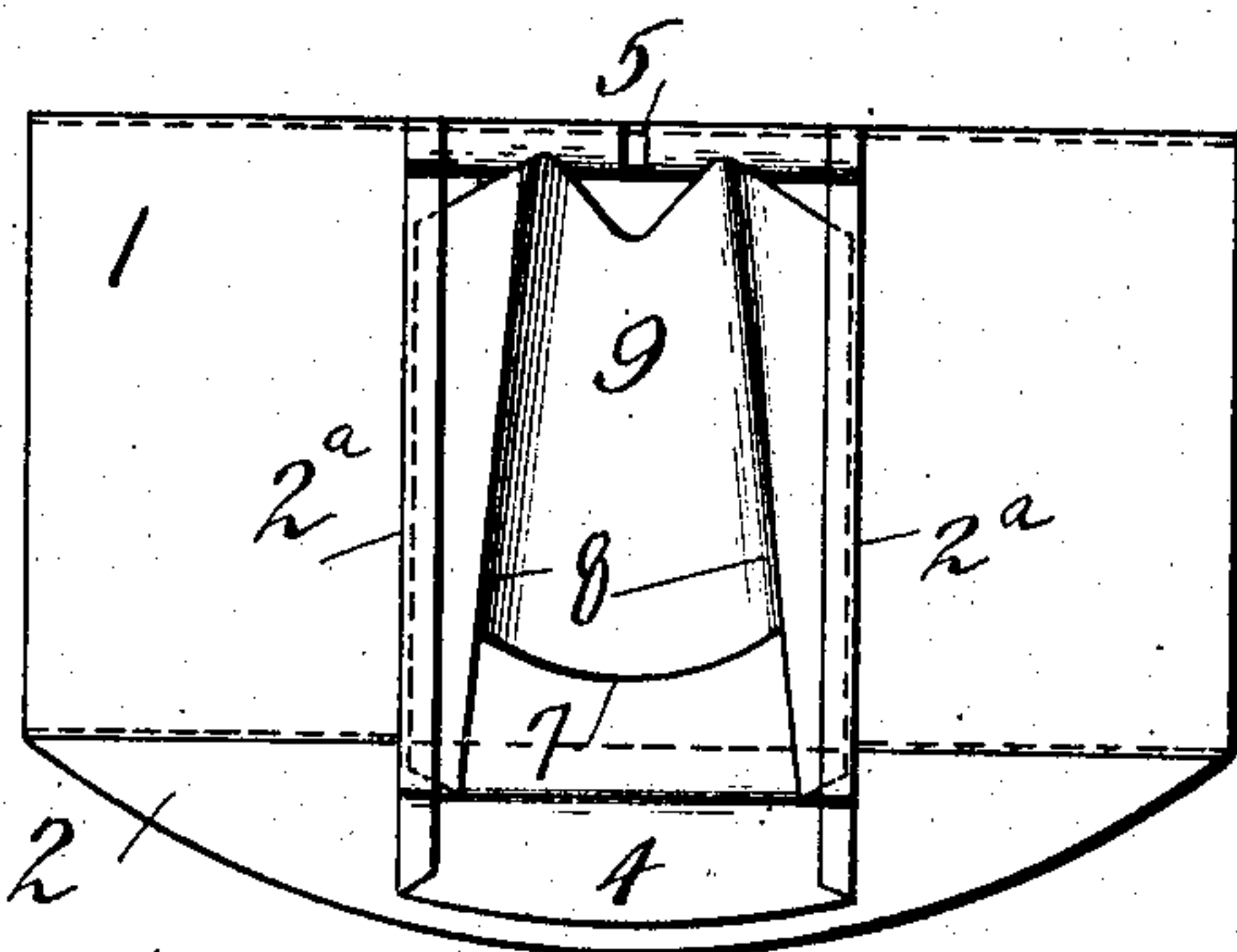


Fig. 2

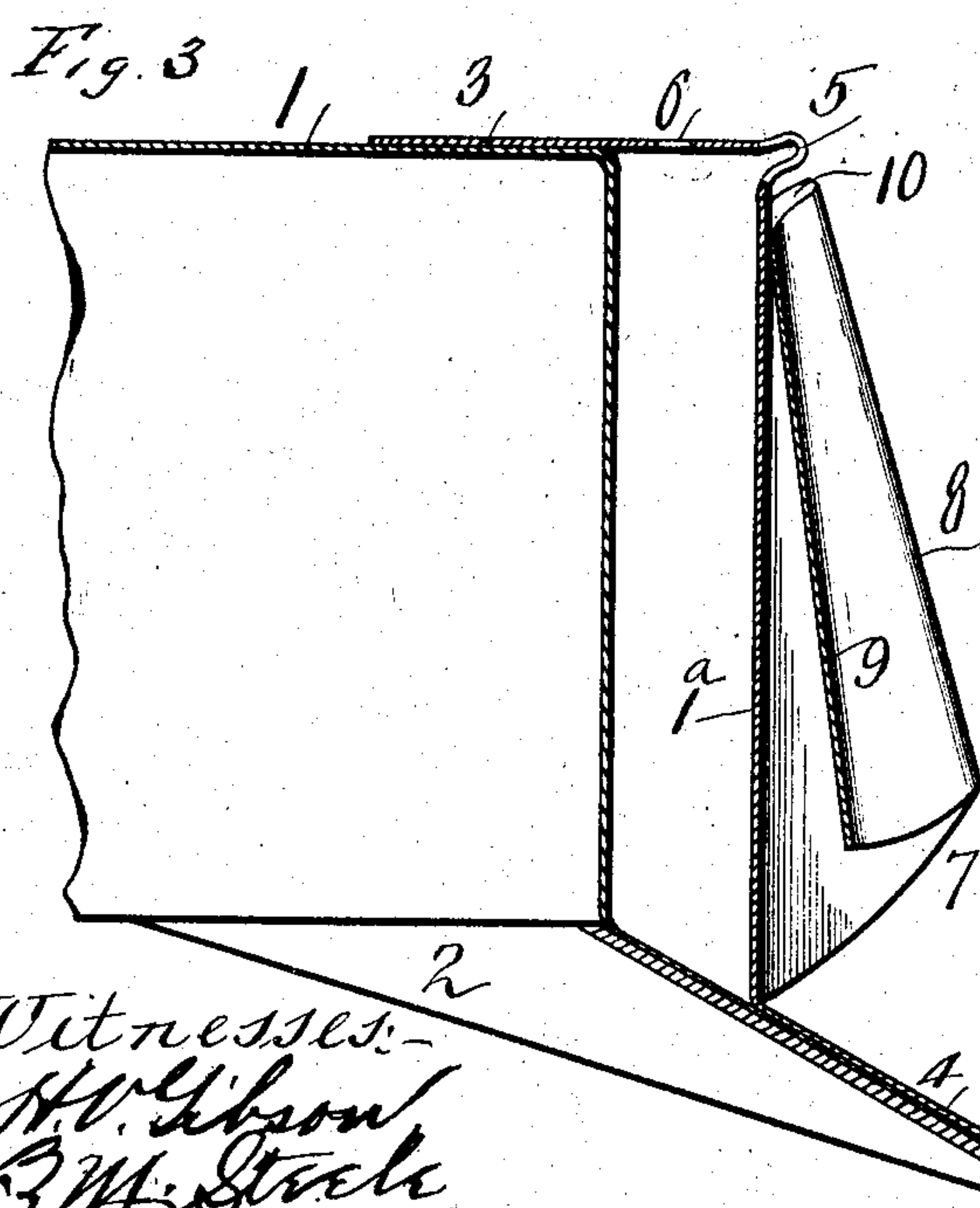


Fig. 3

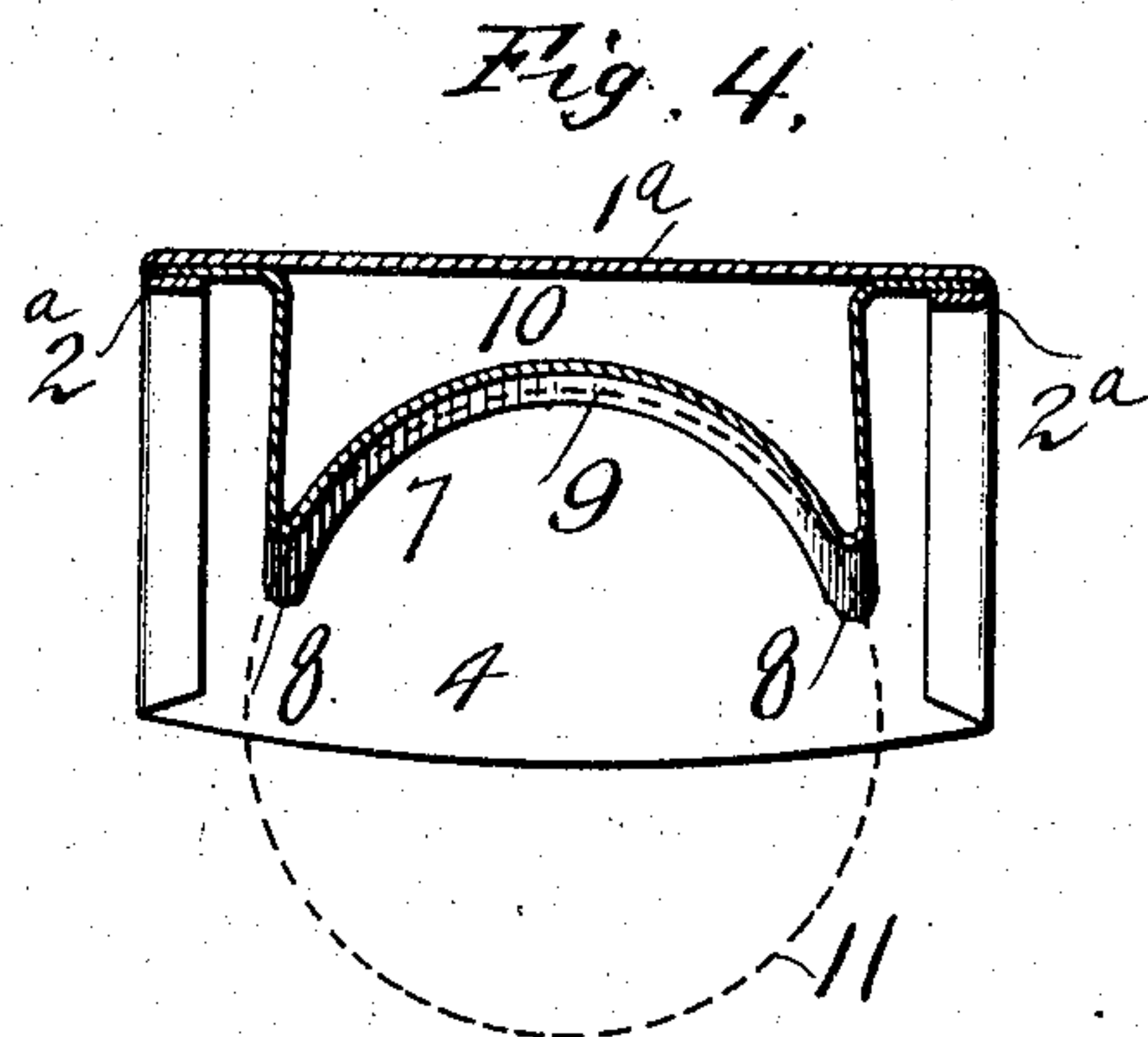


Fig. 4.

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UNITED STATES PATENT OFFICE.

ISAAC WANTLING AND SYLVESTER DOUBET, OF PEORIA, ILLINOIS.

MINER'S LAMP-HOLDER AND HEAD-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 791,231, dated May 30, 1905.

Application filed December 1, 1904. Serial No. 235,007.

To all whom it may concern:

Be it known that we, ISAAC WANTLING and SYLVESTER DOUBET, citizens of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Miners' Lamp-Holders and Head-Protectors; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

This invention has reference to lamp-holders, and has for its main object a miner's lamp-holder and head-protector.

The invention consists of a base-plate suitably secured to a miner's cap, a chair attached to said base-plate and of such contour as to form a concave seat portion for the body of the lamp and providing an air-passage between the base-plate and said chair in a manner to keep the heat of the lamp from the head of the wearer of the cap.

The invention consists, further, of a base-plate having a vertical portion, an upper rearwardly-extended portion which is secured to the top of a cap, and a base-piece which is secured to the vizor of the cap, the vertical portion of the plate provided with inturned edges; a lamp-chair made of suitable material, either metal or fiber, having its opposite edges secured under the inturned portions of the base-plate, the said chair formed with crimped portions providing vertical air-passages between the base-plate and said chair and the center of the chair made concave to conform to the contour of a lamp to be supported adjacent thereto; a lamp, and means for attaching the same to the upper portion of the base-plate.

That our invention may be more fully understood reference is had to the accompanying drawings, in which—

Figure 1 is a side elevation of a cap with our improvements attached thereto. Fig. 2 is a front elevation of a cap with our improvement attached thereto and omitting the lamp seen in Fig. 1. Fig. 3 is an enlarged vertical section of a portion of a cap and our improvement lamp-support. Fig. 4 is an enlarged horizontal cross-section through the lamp-support, the lamp seen in dotted lines.

In the figures, 1 denotes a cap having the usual formation of a miner's cap and provided with a vizor 2. The improvement to which this invention relates is a lamp support or holder for caps of this character, the holder not only adapted to retain the lamp in a substantially fixed position to prevent swinging movement thereof when the miner raises or lowers his head or moves his head from side to side, but for the more useful purpose of keeping the heat of the lamp from the head of the miner. The holder consists of a plate having the vertical body portion 1^a, its side edges inturned, as at 2^a, for a purpose to be described; the rearwardly-carried extension 3, which is secured to the top of the cap somewhat in the manner seen in Fig. 1, and the base portion 4, which is secured to the vizor of the cap, as seen in Figs. 1 and 2. The plate where the same is bent to form the top or extension 3 is provided centrally thereof with a slot or socket 5, and to the rear thereof in the extension 3 is shown a perforation or eye 6, both serving a purpose to be described.

7 denotes a lamp-chair made of suitable material, either metal, fiber, or other known substance, and is of suitable height. The side edges of the said chair are secured under the inturned portions 2^a of the plate 1^a, and, if desired, the chair and plate may be riveted together, although this is not necessary. The body of the said chair is provided with the crimped portions 8 and separated from each other, the body of the chair intermediate each of the crimped portions formed concave, as at 9, to conform to the contour of the body of a lamp to be held adjacent thereto. Crimping the body of the plate in the manner shown an air-passage 10 is provided between the body portion 1^a of the base-plate and the chair for the circulation of air for the purpose of keeping the heat of the lamp from the head of the wearer of the cap.

Attention is called to the formation of the chair, which throws the crimped portions, as also the body of the chair, outwardly from a point adjacent to the top of the body of the plate 1^a to the lower portion of the said chair, which when a lamp is supported adjacent thereto is held slightly at an incline and with por-

tions of the air-chamber extending partially around the lamp. The lamp is indicated at 11, of the usual form, and is provided with a shank 12, having a hook 13, which engages the socket 5 or slot 5 of the plate and passes down through the perforation or eye 6 in manner shown in Fig. 1.

We are aware that it is not new to support a lamp on a cap, also that it is not new to attach a plate to the cap secured also to the vizer thereof, all of which features we disclaim; but we are not aware of the provision of a chair forming a seat for the lamp to prevent its dislodgment in the movement of the head, nor to an air-chamber or passage between the chair and plate supporting the same.

It is obvious that various changes may be made in the support or holder, and we do not wish to be confined to the exact details as set forth, but to cover all that will come within the spirit and scope of the invention.

What we claim is—

1. A lamp-support, comprising a base-plate, a supplemental plate secured thereto and the body of the supplemental plate having a concave portion which merges into crimped portions between which and the base-plate there is provided air-passages.

2. A lamp-support, comprising a base-plate, a lamp and means for attaching the same to the base-plate, a chair for the body of the lamp, comprising a plate having a concave seat portion and crimped portions forming air-passages between the base-plate and said supplemental plate for the circulation of air.

3. In combination with a cap, a lamp-holder consisting of a plate secured to the cap its side edges intumed, a second plate having its side edges secured under the intumed portions of said first-mentioned plate, and the body of the second plate provided with crimped portions forming an air-passage between two

plates for the circulation of air, and the second plate having its central body portion concave, for the purposes specified.

4. The combination with a cap, a base-plate secured thereto and having a vertical portion, a supplemental plate having its side edges secured to the base-plate, the said supplemental plate having an inclined concave presented face and oppositely-disposed crimped portions forming air-passages between the same and the base-plate, and intermediate the concave portion and the side edges of the said supplemental plate.

5. A lamp-holder, consisting of a base-plate having intumed portions, a supplemental plate having its edges secured under the intumed portions of the base-plate, the said supplemental plate adjacent to the intumed portions of the base-plate bent outwardly then inwardly to form a concave seat, the outwardly-bent portions of the supplemental plate forming air-passages between the same and the base-plate, and a lamp supported by the base-plate with a portion of the body thereof disposed in the concave seat of the supplemental plate and intermediate the air-passages aforesaid.

6. A lamp-holder, comprising a plate, a support suitably secured thereto, the said support having a concave face and crimped portions extending from the top of the plate and adjacent thereto, to a suitable point above the bottom of and removed outwardly from said plate, substantially as specified.

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

ISAAC WANTLING.
SYLVESTER DOUBET.

Witnesses:

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ROBERT N. McCORMICK.