

No. 640,387.

Patented Jan. 2, 1900.

T. R. JONES.
BRACKET FOR MINERS' LAMPS.

(Application filed Sept. 25, 1899.)

(No Model.)

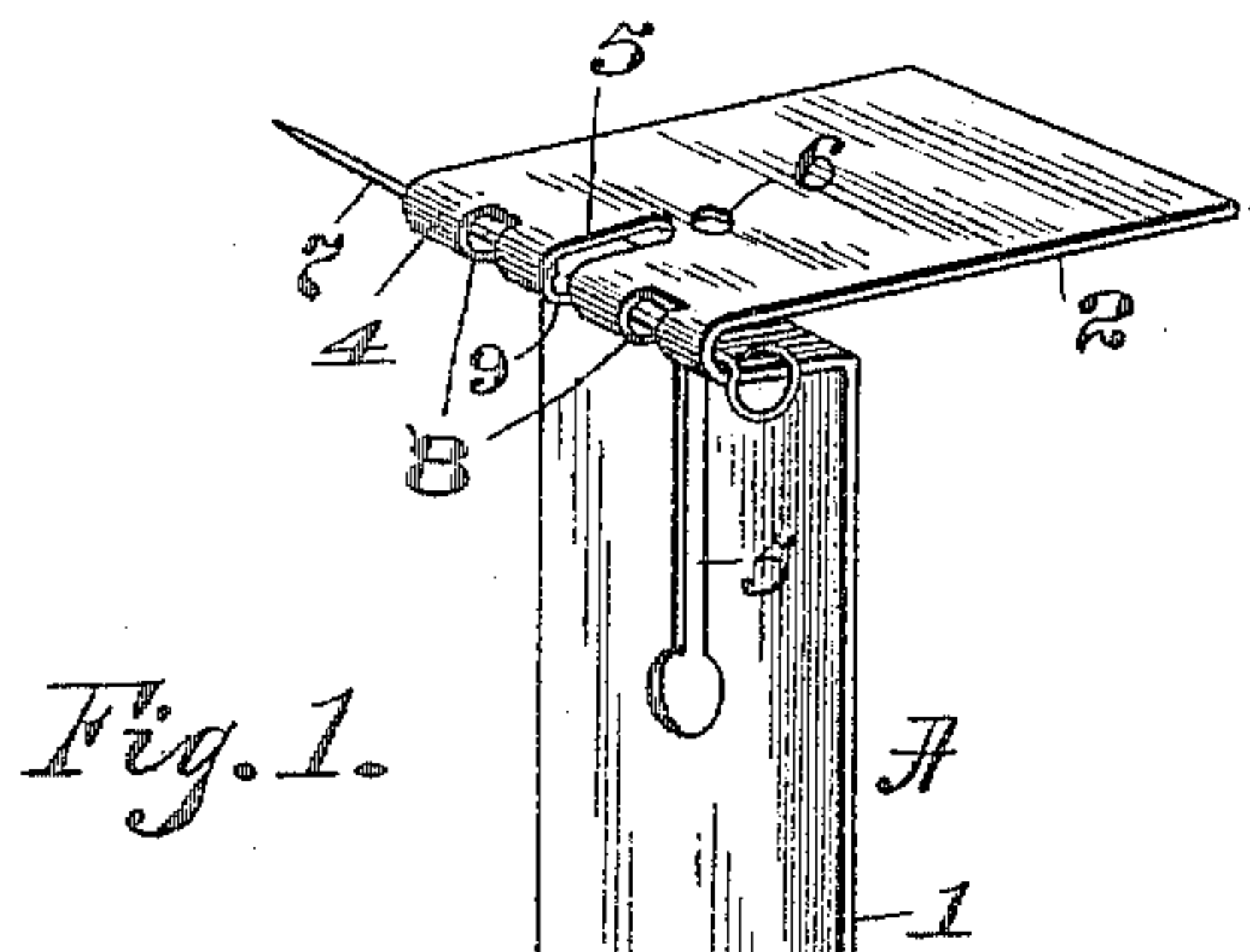


Fig. 1.

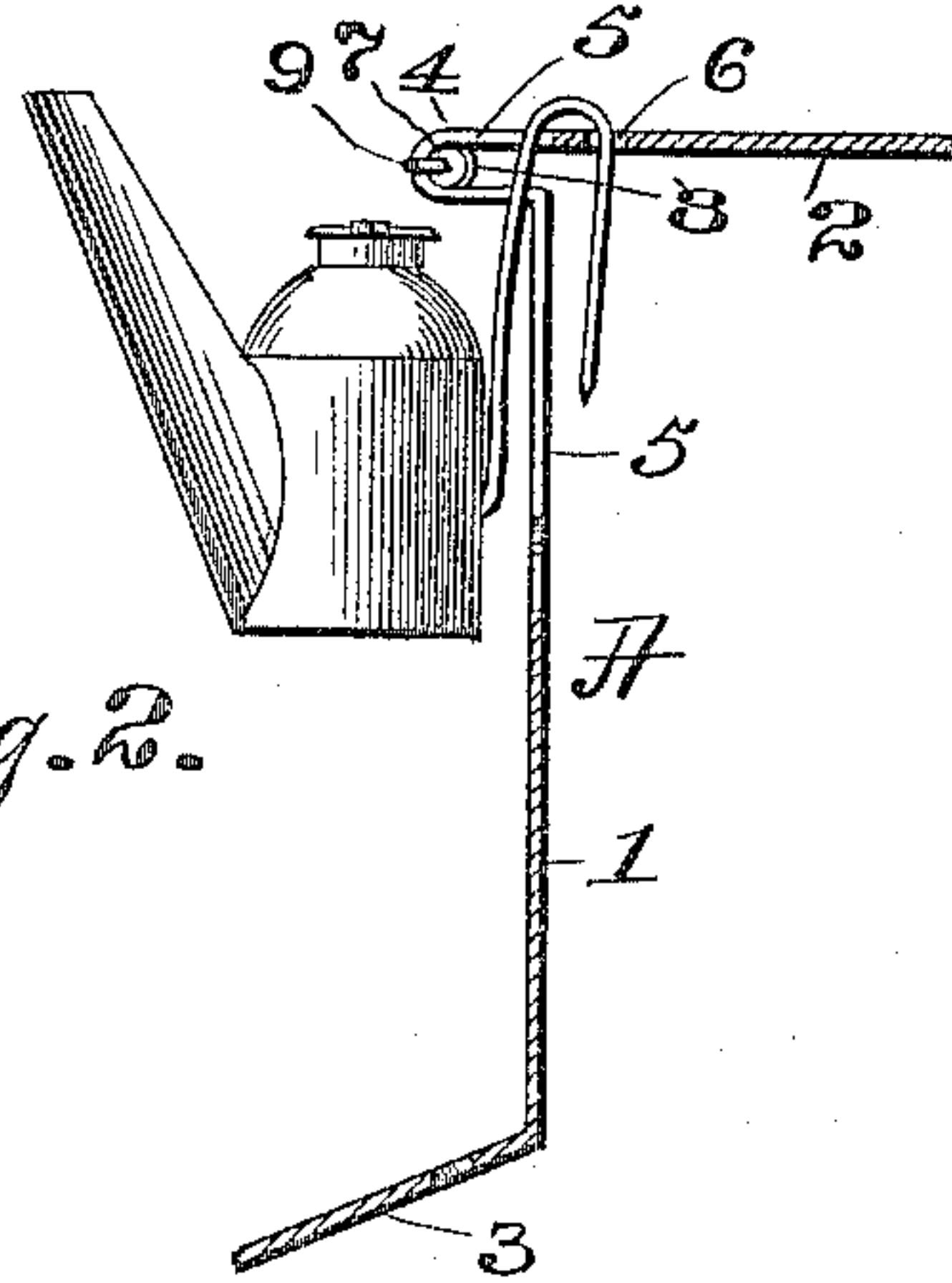


Fig. 2.

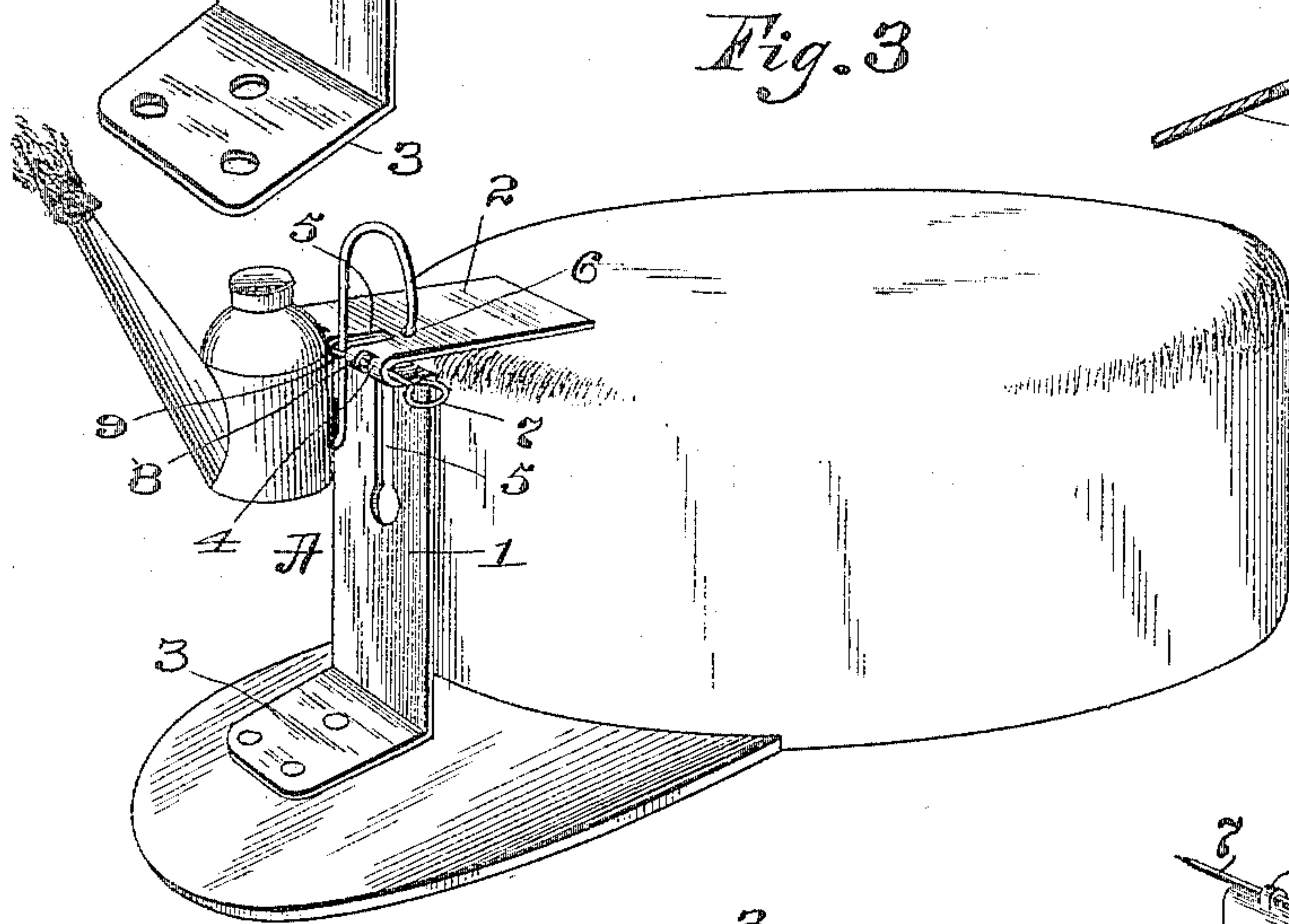


Fig. 3.

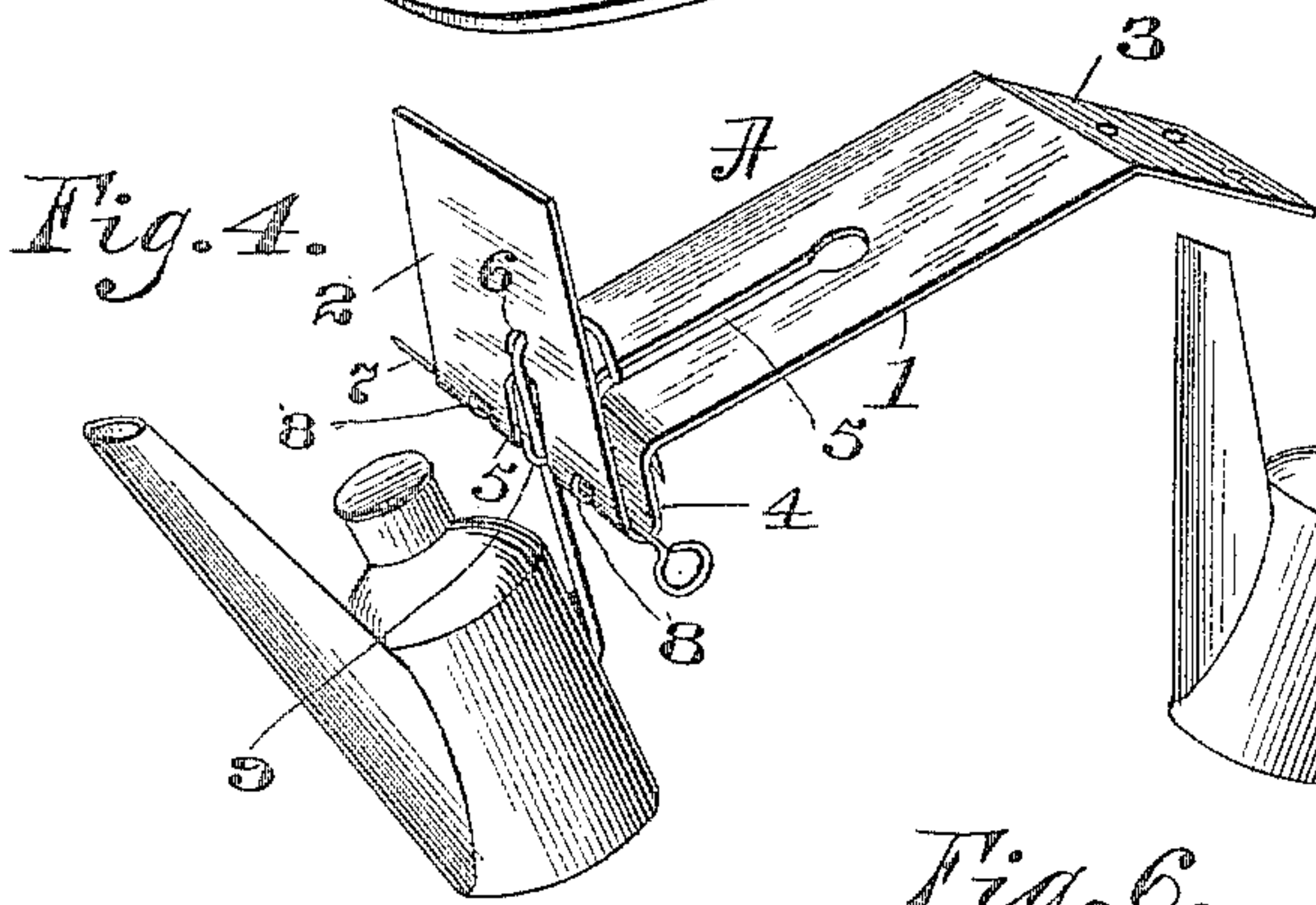


Fig. 4.

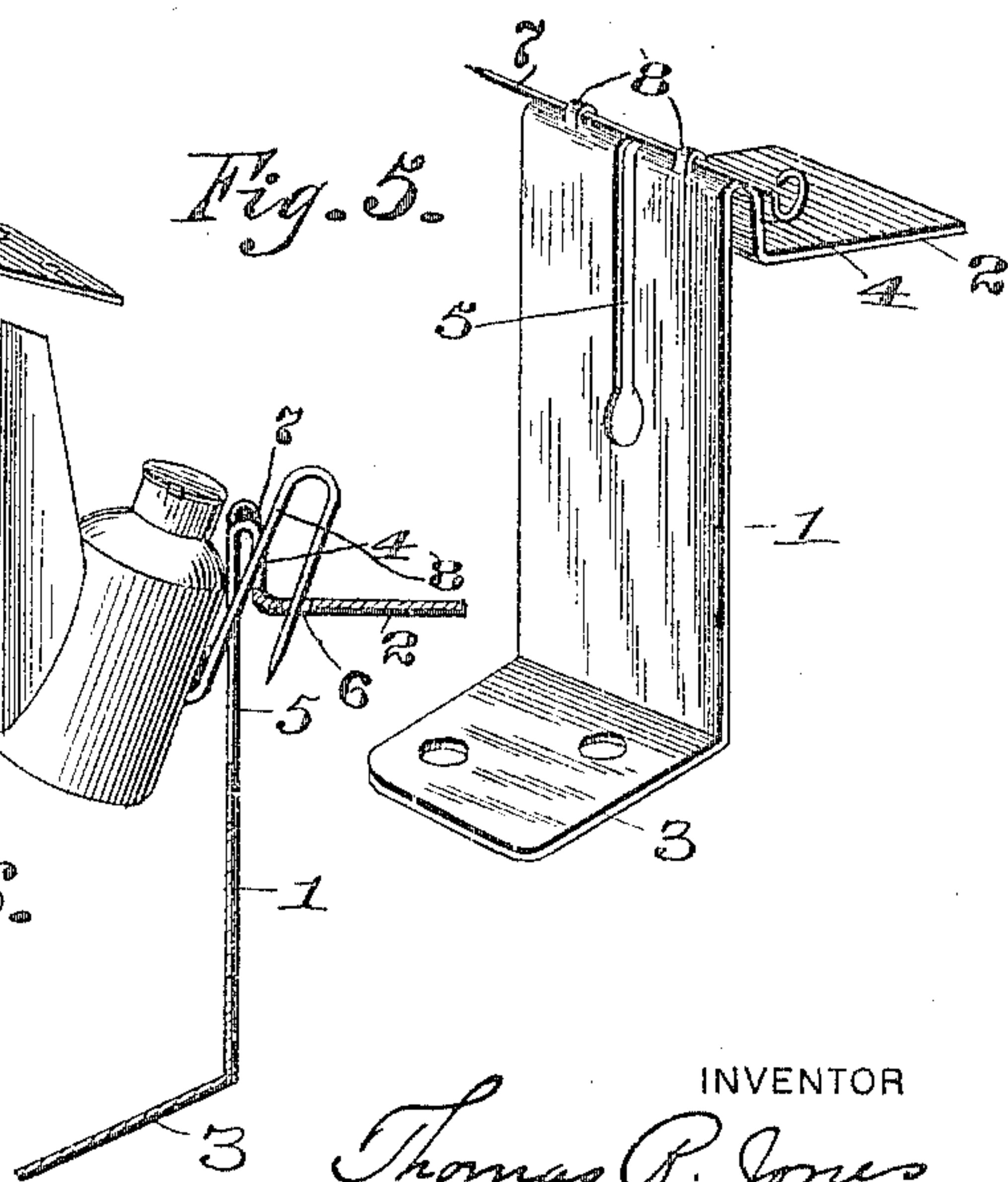


Fig. 5.

Fig. 6.

WITNESSES

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UNITED STATES PATENT OFFICE.

THOMAS R. JONES, OF WILKES-BARRÉ, PENNSYLVANIA.

BRACKET FOR MINERS' LAMPS.

SPECIFICATION forming part of Letters Patent No. 640,387, dated January 2, 1900.

Application filed September 25, 1899. Serial No. 731,685. (No model.)

To all whom it may concern:

Be it known that I, THOMAS R. JONES, a citizen of the United States, residing at Wilkes-Barré, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in Brackets for Miners' Lamps, of which the following is a specification.

My invention relates to an improved form of lamp-bracket for miners' caps of the variety shown in my prior patent, No. 629,692, dated July 25, 1899, in which the bracket is formed with a slot to receive the shank of the lamp-hook and an opening in the rear of the slot adapted to receive the point of the hook, the object of this construction being to permit the lamp to swing outward and adjust itself when the cap is tilted forward without permitting it to swing sidewise.

My present improvements consist of a new form of bracket of this general description and means for preventing the lamp from jolting out of the bracket when the cap is suddenly moved upward or downward.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view of my improved bracket provided with the lamp-retaining device. Fig. 2 is a central vertical section through the same, showing the lamp in position. Figs. 3 and 4 are perspective views with the lamp attached, showing the bracket in different positions. Fig. 5 is a similar view of the bracket illustrated in my prior patent with the lamp-retaining device in position; and Fig. 6 is a sectional view through the same with the lamp attached, showing the operation of the retaining device.

Referring to Figs. 1, 2, and 3 of the drawings, A indicates a bracket consisting of a vertical plate 1, having upper and lower attaching ends 2 and 3, by means of which the bracket is supported vertically in front of the cap. The upper attaching end 2 is arranged approximately at right angles to the body portion 1 and is connected thereto by means of a bent or beaded portion 4, which projects outwardly beyond the body portion 1. In the upper portion of the plate is a narrow vertical slot 5, which extends through the beaded portion, and a perforation 6 is located in the part 2 immediately in the rear of the slot.

When the cap is held in its upright position, the shank of the hook rests within the slot in the bead, as shown in Fig. 2, and when the cap is tilted forward the shank swings outward in the slot into the beaded portion and the point of the hook swings through the slot in the body portion, as shown in Fig. 4. In these positions and in any intermediate position the lamp will be prevented from swinging sidewise by the walls of the slot in the beaded portion which bear against the shank, while the slot in the body portion permits the end of the hook to swing through the plate, so that the forward movement of the lamp will not be obstructed.

In order to prevent the lamp from being thrown out of the bracket when the cap is suddenly moved upward or downward, I arrange across the slot in the bent or beaded portion a retaining device 7, consisting, preferably, of a wire, which may also be used as a wick-picker. As shown in Figs. 1 to 4, inclusive, eyes 8 are formed at the outermost part of the beaded portion of the bracket by slitting the metal and pressing it inward. After the lamp is in position the wire is passed through the eyes, and it will be seen from an inspection of Fig. 3 that when the lamp is jolted upward the shank of the hook will extend upon one side of the wire, while the lamp-body will extend upward upon the other side, and in consequence the hook cannot become detached from the bracket. The wire is preferably formed with a slight bend 9 at the center, so as to permit the shank of the hook to swing forward as far as possible in the slot, and the eyes are sufficiently large to permit of the wire having this bend to be passed through them. The retaining device with this form of bracket also prevents the shank of the hook from swinging entirely out of the slot. The retaining device is also applicable to brackets of other forms. In Figs. 5 and 6 I have shown it applied to the form of bracket illustrated in my patent hereinbefore referred to. In this form of bracket the beaded portion 4 instead of projecting outwardly beyond the body portion of the plate projects upwardly above the attaching end 2. The eyes 8 in this instance are pressed outward from the top of the bent or beaded portion, and a straight wire is inserted through said eyes.

The action when the lamp is jolted upward or the bracket suddenly moved downward is illustrated in Fig. 6.

5 A device of some kind for picking up the lamp-wick is an essential part of a miner's outfit, and it is customary to provide a holder of some kind upon the cap for the purpose of receiving the picker. By means of the improvements shown in the drawings the picker
10 is conveniently held in the lamp-bracket and serves also as a retaining device for the lamp,

I preferably employ a removable wire or pin for a retaining device for the reason that it may also be used as a wick-picker; but any
15 other form of retaining device which may be extended across the slot in the bracket, so as not to interfere with the self-adjustment of the lamp, may be employed, and such devices may be secured to the bracket in various
20 ways.

Having described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. A lamp-bracket for miners' caps consisting of a plate adapted to be vertically arranged
25 in front of the cap and having its upper and lower ends adapted to be attached to the crown and peak thereof respectively, said plate having a bent or beaded portion projecting forwardly from the body portion and uniting said body portion with the upper attaching end, a narrow longitudinal slot in its upper portion extending through said bent portion, and a perforation in the rear of the
30 bent portion and in line with the slot.
35

2. A lamp-bracket for miners' caps having a slot near its upper end adapted to receive

the shank of the lamp-hook and an opening in the rear of the slot for the point of the hook, in combination with a lamp-retaining
40 device adapted to be extended across the slot when the lamp is upon the bracket.

3. A lamp-bracket for miners' caps having a slot in its upper part adapted to receive the shank of a lamp-hook and an opening in the
45 rear of the slot for the point of the hook, in combination with a lamp-retaining device consisting of a wire or pin removably secured to the bracket and adapted to extend across the slot.
50

4. A lamp-bracket for miners' caps having a bend in its upper portion, a slot extending through said bend and adapted to receive the shank of a lamp-hook and an opening in the
55 rear of said slot for the point of the hook, in combination with a lamp-retaining device adapted to extend across said slot at the bend in the bracket.

5. A lamp-bracket for miners' caps having a bend in its upper portion and eyes formed
60 thereon, a slot extending through said bend and adapted to receive the shank of a lamp-hook and an opening in the rear of said slot for the point of the hook, in combination with a lamp-retaining device consisting of a
65 wire or pin removably arranged within said eyes and extending across the slot.

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

THOMAS R. JONES.

Witnesses:

W. L. RAEDER,
WM. C. OLDS.