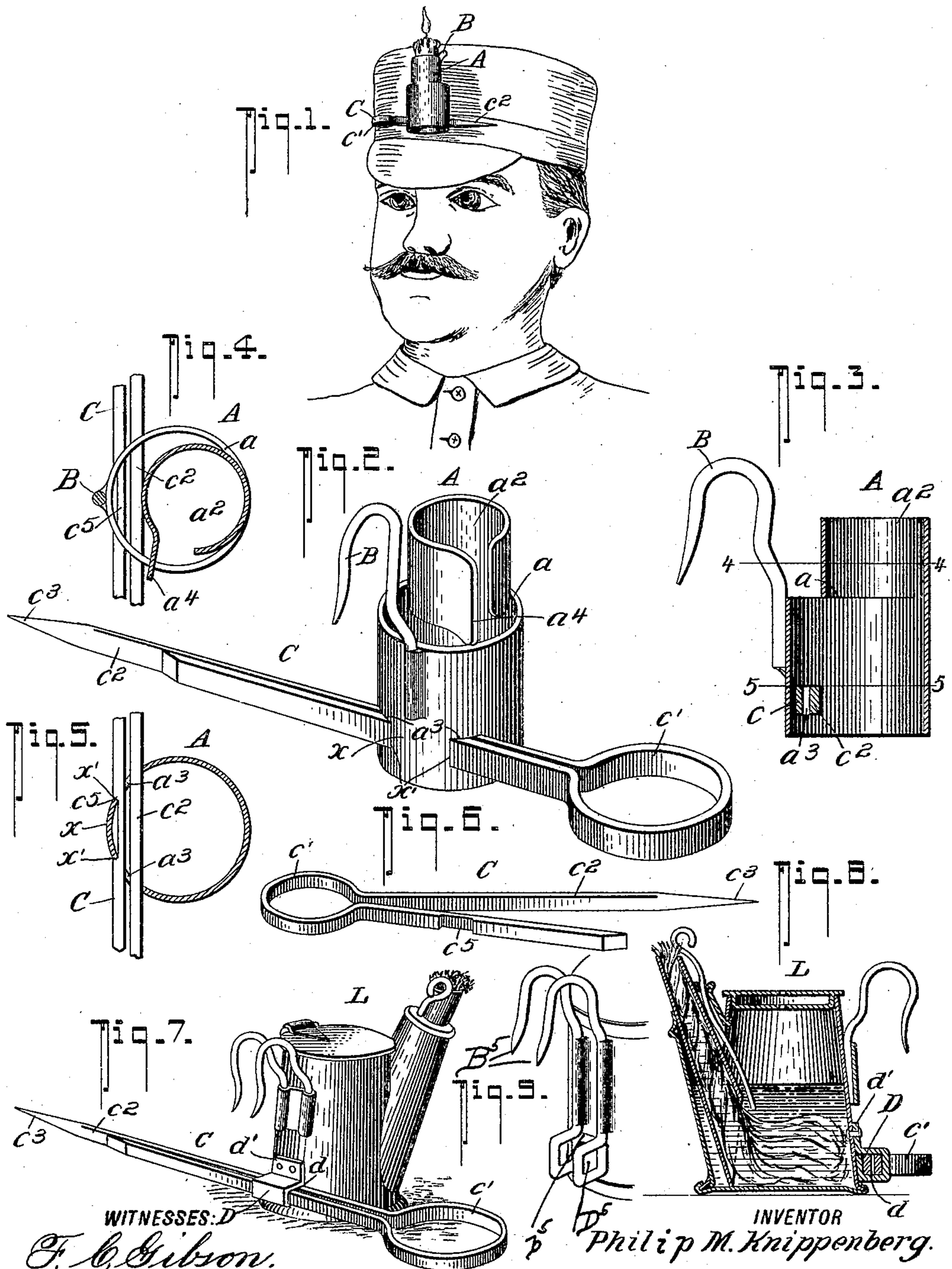


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PATENTED MAY 8, 1906.

P. M. KNIPPENBERG.
CANDLE HOLDER AND STICK.

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PHILIP M. KNIPPENBERG, OF OSHKOSH, WISCONSIN.

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No. 820,209.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed January 18, 1905. Renewed October 2, 1905. Serial No. 281,081.

To all whom it may concern:

Be it known that I, PHILIP M. KNIPPENBERG, residing at Oshkosh, in the county of Winnebago and State of Wisconsin, have invented a new and Improved Candle Holder and Stick, of which the following is a specification.

This invention is in the nature of an improved combined holder and stick for miners' candles or lamps; and it seeks to provide a simple and inexpensive means for holding a candle and a stick for the same, which is also adapted for being connected with the ordinary types of miners' lamps; and in its general nature my invention comprehends a peculiar construction of holder formed of a single piece of spring metal bent into shape at one end to act as a spring clamp-socket to hold the candle, it having the other end shaped to conveniently interlock with the stick or picker; and in its subordinate features my invention embodies certain details of construction and peculiar combination of parts, all of which will be hereinafter fully described, specifically pointed out in the appended claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a view of my improved candle holder and stick as applied for use. Fig. 2 is a detail perspective view of the same. Fig. 3 is a vertical section of the same. Figs. 4 and 5 are horizontal sections thereof, taken, respectively, on the lines 4 4 and 5 5 on Fig. 3. Fig. 6 is a detail view of the stick or picker. Fig. 7 illustrates the same as applied to a miner's lamp, and Fig. 8 is a vertical cross-section of the lamp with the picker-stick applied. Fig. 9 is a detail view of a modified arrangement of the picker or stick holding keeper on the miner's lamp.

In carrying out my invention I form the candle-holder A out of a section of thin spring-metal tubing. The upper end of the tube A is cut horizontally, as at a , and the said cut extends nearly the full transverse width of the tube, whereby to leave but a small portion of the upper end of the tube integral with the lower portion. The upper end of the tube A is bent to form a socket a^2 for receiving the candle, and one of the free ends of the upper portion is bent radially outward to form a thumb-piece a^4 , whereby the diameter of the socket a^2 can be readily spread to permit of freely entering or removing the candle-butt from said socket. At the rear of the tube A is secured in any desired manner a

hook B for attaching the candle-holder to the miner's cap. (See Fig. 1.) At a point below the hook B the rear side of the tube A has two horizontally-elongated slots $a^3 a^3$, arranged one at each side of the hook-attached portion of the tube, and the said slots are in alinement, so as to form keeper-slots to receive the stick or picker device C, which consists of a single piece of spring metal bent upon itself to form a loop or ring C' and with its ends bent back upon themselves in the manner clearly shown in Fig. 6, from which it will be noticed one end, c^2 , is longer than the other and is pointed, as at c^3 , to readily enter a post, wall, or other abutment on which it may be desired to support the candle or lamp, the pointed end also serving as a simple means for picking the wick.

One of the spring members of the device C, preferably the short or outer one, has one or more notches C^5 of a length slightly greater than the solid part x of the tube A between the slots a^3 therein, whereby when the two members of the picker or stick are closed together under pressure and slid through the slots $a^3 a^3$ the edges of the said notch C^5 will snap into engagement with the adjacent edges $X' X'$ of the slots a^3 , and thereby firmly lock the said picker or stick into the holder A from accidental displacement.

The form of picker or stick shown when used in connection with a lamp coöperates with a keeper D, secured upon the rear side of the lamp L, as shown in Figs. 7 and 8, by reference to which it will be seen the said keeper D is formed by bending up a single piece of brass or other metal to form a longitudinal socket d , whose inner wall is in vertical alinement with the vertically-extended end d' , whereby to bear solidly against the lamp-body, to which the keeper is made fast by rivets, as shown. The socket d is of such length that when the stick ends are slid therein the notched portion thereof will snap into engagement with the ends of the socket portion, as shown.

Instead of forming the keeper D in the manner shown in Figs. 7 and 8 the said keeper may be formed by making the attaching-hooks B^5 of a single piece of rod-wire bent upon itself to form a loop 5^b and bending the loop end to form the keeper D^5 . (See Fig. 9.) By this arrangement the lamp-holding hook and the keeper can be economically made and readily attached to the lamp-body by soldering.

From the foregoing description, taken in connection with the drawings, it is believed the advantage or full manner of use of my invention will be readily apparent.

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

10 1. An improved holder for the purposes described consisting of a tubular metal section, the upper end of which is slit horizontally nearly its entire transverse width, the said upper portion being vertically slitted and bent to form a spring-socket, one end of the vertically-slitted portion being bent radially
15 outward, a hanger-hook secured to the rear of the lower part of the tube, said lower part of the tube having a pair of alining horizontally-elongated openings and a combined stick or picker device, which includes an ex-
20 pansible member vertically recessed and adapted to be passed through the two openings in the tube and to interlock therewith when the recessed portion registers therewith substantially in the manner shown and for
25 the purposes described.

2. An improved holder for the purpose described; which comprises a tubular metal section whose upper end is formed to frictionally engage a candle or similar torch and whose lower part has a pair of alining horizontal
30 openings, and a picker-stick which includes an expansible member vertically recessed and adapted to be passed through the openings in the tubular metal section to interlock therewith when the recessed portion of the stick
35 registers therewith, as set forth.

3. A holder of the character described; formed of a tubular section of spring metal, the upper part of which is cut in the horizontal plane and vertically, whereby the said up-
40 per end is bendable to form a spring-socket of less diameter than the body portion and located wholly within the circumference of the said body portion, the lower end of the main body portion having alining horizontal open-
45 ings adapted to receive a picker-stick.

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