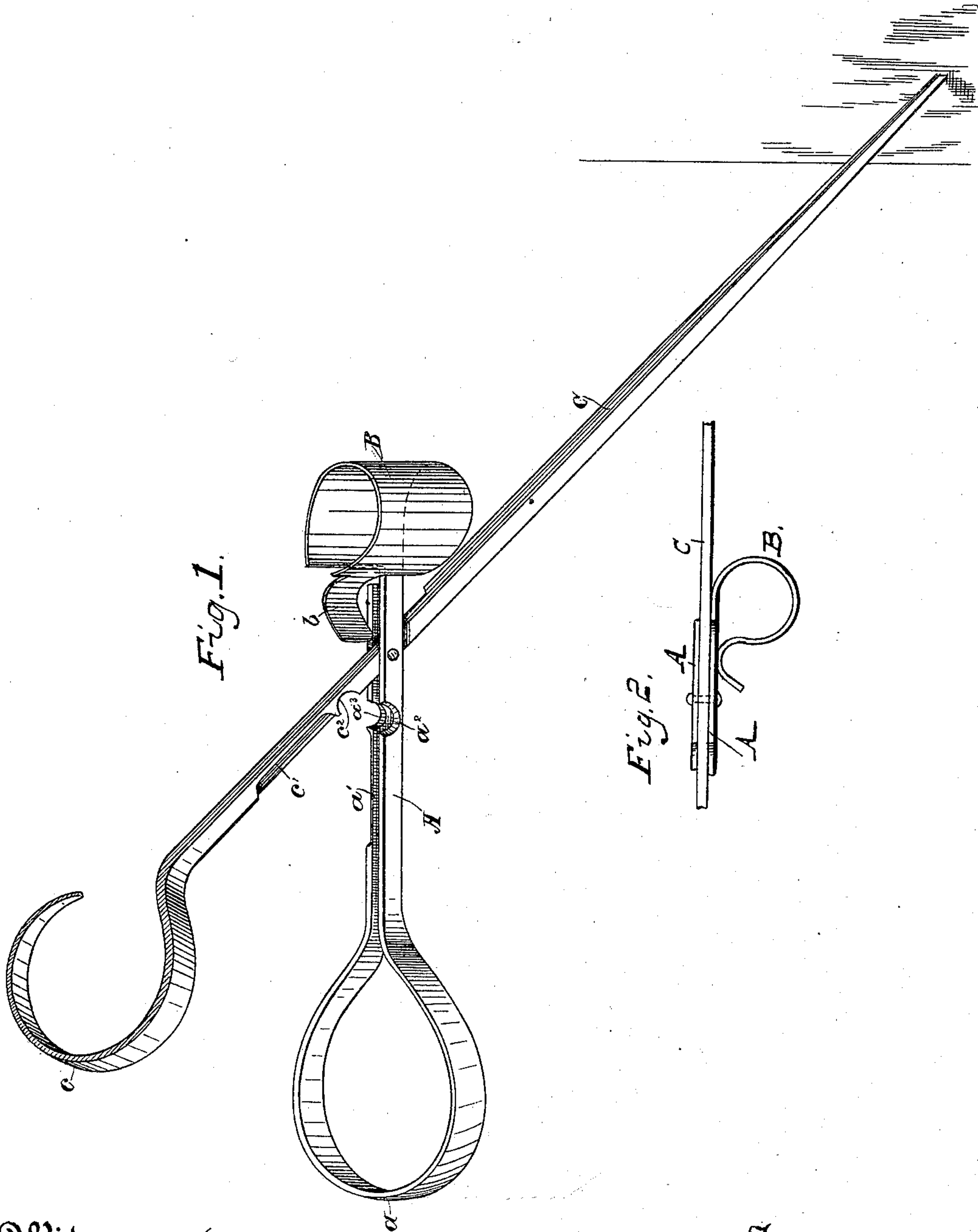


No. 612,432.

Patented Oct. 18, 1898.

A. NISSEN.
MINER'S CANDLESTICK.
(Application filed Dec. 8, 1897.)

(No Model.)



Witnesses,
J. F. Aschbeck

Inventor,
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UNITED STATES PATENT OFFICE.

ANTONE NISSEN, OF SHASTA, CALIFORNIA.

MINER'S CANDLESTICK.

SPECIFICATION forming part of Letters Patent No. 612,432, dated October 18, 1898.

Application filed December 8, 1897. Serial No. 661,144. (No model.)

To all whom it may concern:

Be it known that I, ANTONE NISSEN, a citizen of the United States, residing at Shasta, county of Shasta, State of California, have invented an Improvement in Miners' Candlesticks; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of devices known as "miners' candlesticks;" and it consists of a bar bent to form parallel sides, the bight of which forms an open loop or ring, and one of the ends has an elastic cylindrical candle-holder formed upon it. Between these parallel bars is fulcrumed another bar having a point at one end and the other end bent into a hook which may fold into the first-named bight or be turned to any angle with it. The bars, thus movable with relation to each other, have fuse-cutting edges and cap-crimping sockets formed in their meeting edges.

The objects of my invention are to provide a miner's candlestick which can be so fixed in the various positions required when in use in a mine that the candle will always be in a vertical position and in conjunction therewith such simple tools as are most generally used by miners in their work.

In the accompanying drawings, Figure 1 is a perspective view of my device when in use. Fig. 2 is a detail showing in plan the socket B and portions of the bars A and C.

A is a metal bar bent so as to form the loop a and having its returning ends parallel and terminating in the open-sided elastic candle-socket B, provided with the thumb-piece b for the purpose of pressing open the socket and so as to clamp the candle therein on the pressure being withdrawn.

C is a metal bar pointed at one end and having its other end bent into a hook c , adapted to fit inside the loop a . This bar C is pivoted between the parallel sides of the bent bar A at a convenient distance from the candle-socket B and is provided with a cutting edge c' and corresponding with a similar cutting edge a' in one of the parallel sides of the folded bar A, so as to form a plain-edged fuse-cutter. Adjacent to these plain cutting edges semicircular sockets $c^2 a^2$ are formed upon the edge of the bar C and the corre-

sponding edge of one of the side bars of A and so beveled as to form a circular cutter. The other arm of A has a similar curved groove a^3 , essentially in line with the other two when the parts are closed together, and the grooves $a^2 a^3$ thus form a support opposed to the groove c^2 of the bar C, between which a cap may be held and crimped upon the end of the fuse. This double support insures a better result than when only two jaws are pivoted to close past each other like a pair of shears.

In using this candlestick in the working of a mine the point of the bar C may be stuck into the side, top, or bottom of any vertical or horizontal timber, as shown, and at any convenient angle and the candle will always retain its vertical position. If there is no timber convenient, the point may be stuck into the side, top, or bottom of the drift or tunnel.

The hook c may be used to hang the candlestick on any rope, chain, or wire, or any projection which may be available.

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

1. In a miner's candlestick, the parallel bars A bent so as to form the loop a , the candle-socket B formed with or secured to one end of the bar A and provided with the thumb-piece b , the bar C pointed at one end, having the hook c at the other end adapted to fold inside the loop a , said bar being pivoted between the sides of A and having the cutting edge c' and a corresponding cutting edge a' upon one of the bars A.

2. A miner's candlestick comprising a bar folded upon itself, with parallel separated sides and having the bight expanded to form a ring, an elastic sheet-metal socket upon one of the ends, open at one side and having a projecting thumb-piece, a second bar pivoted between the sides of the first one near the socket-carrying ends, having one end projecting exterior thereto and pointed, and the other bent to form a hook, coinciding and foldable within the ring formed by the bight of the first-named bar.

3. A miner's candlestick consisting of a bar folded upon itself with parallel and separated sides and the bight expanded to form a ring,

an elastic sheet-metal open-sided socket upon one of the ends, a second bar pivoted between the sides of the first one with one end projecting exterior to the socket-carrying ends
5 and pointed, and the other end bent into a hook and turnable about the pivot to stand at an angle with the first-named bar or to fold within the loop thereof, semicircular grooves, axially in line upon the two parts of the dou-

ble bar and a corresponding and opposing groove in the central pivoted bar substantially as described.

In witness whereof I have hereunto set my hand.

ANTONE NISSEN. [L. s.]

Witnesses:

CHAS. ALBRO,

CHAS. BAUER.