

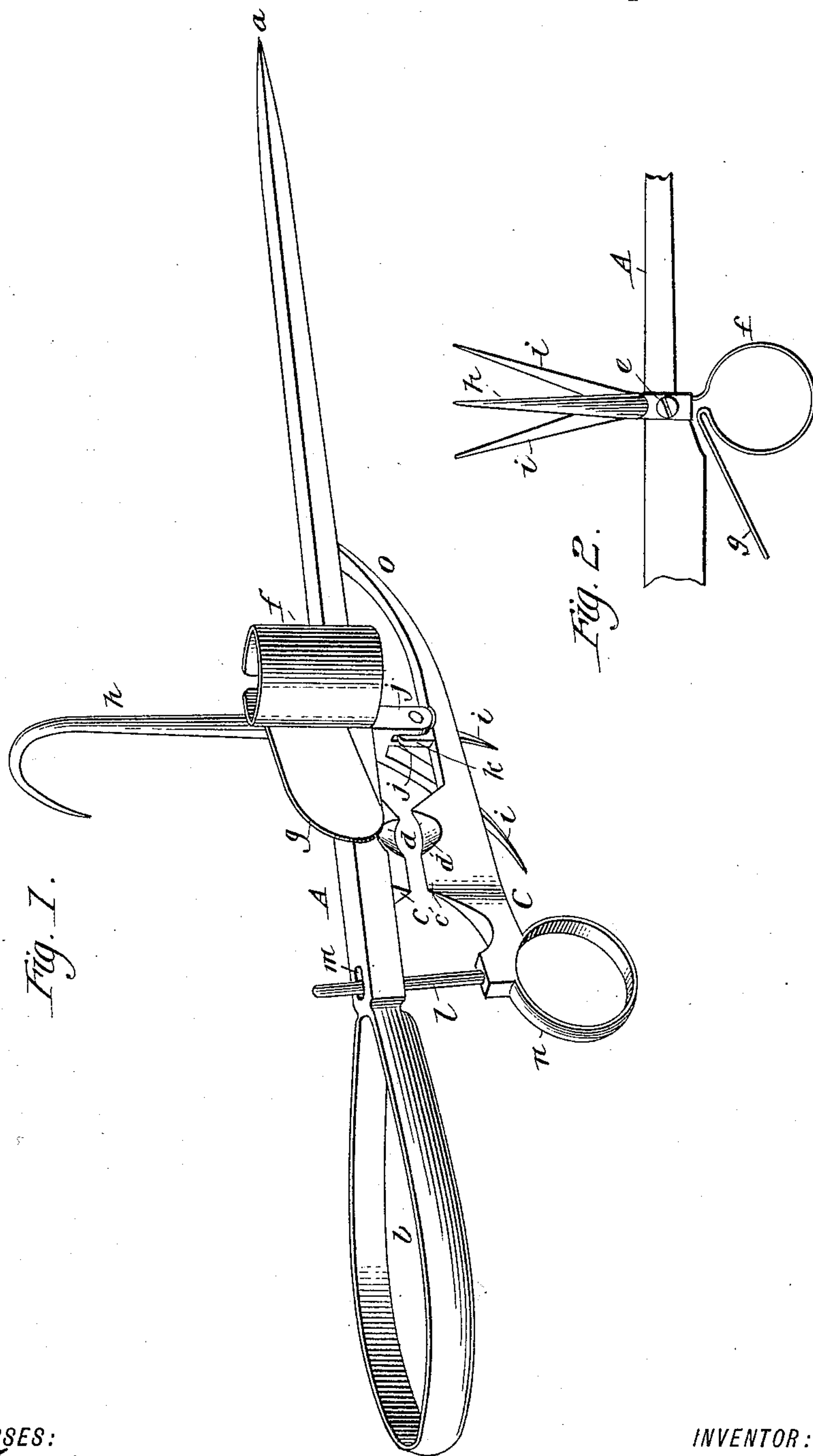
(No Model.)

2 Sheets—Sheet 1.

H. M. MIXTER.  
MINER'S CANDLESTICK.

No. 410,802.

Patented Sept. 10, 1889.



WITNESSES:  
*J. H. Clark.*  
*C. Sedgwick*

INVENTOR:  
*H. M. Mixter*  
BY *Munn & Co.*  
ATTORNEYS.

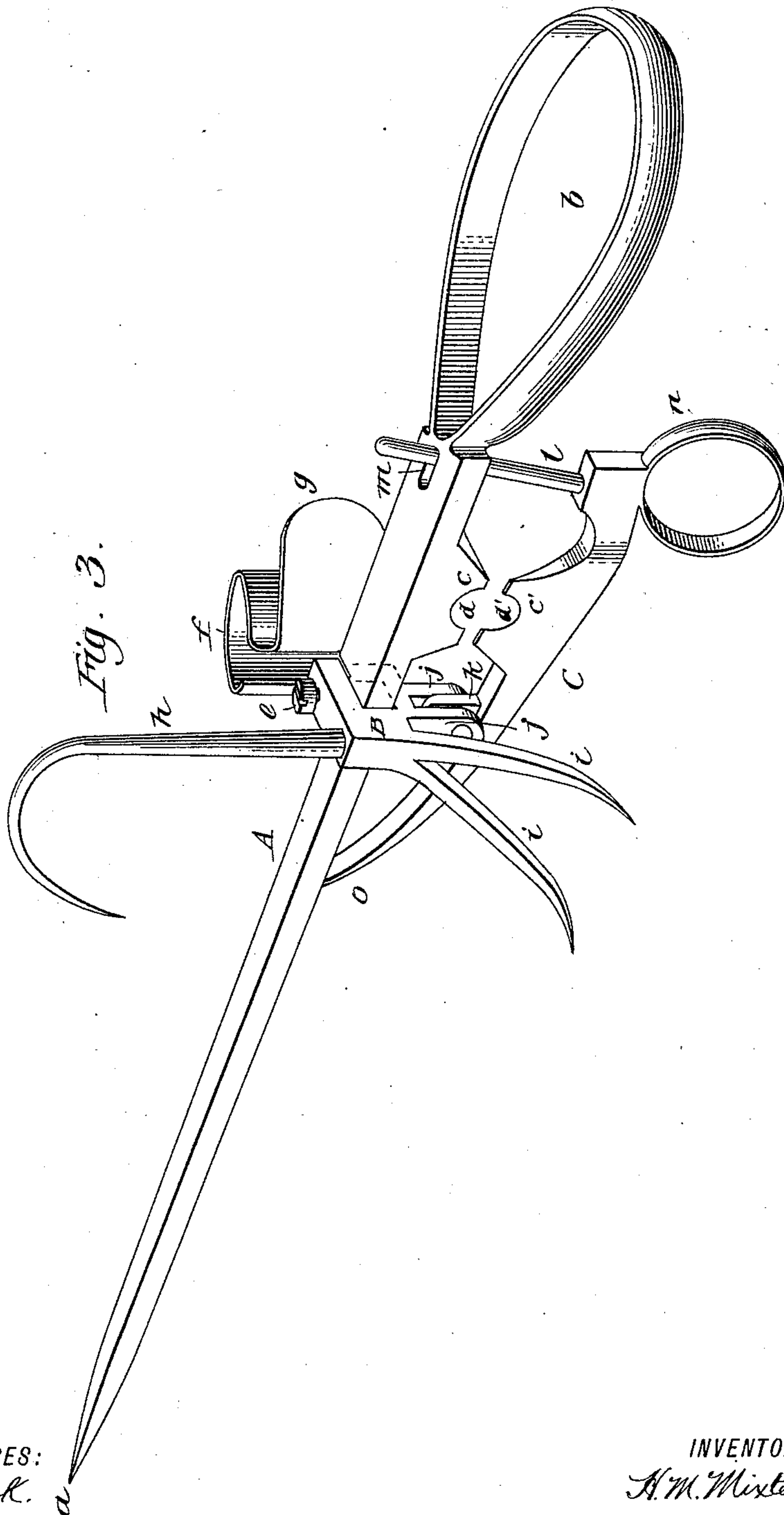
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# UNITED STATES PATENT OFFICE.

HENRY M. MIXTER, OF EMPIRE, MONTANA TERRITORY, ASSIGNOR OF ONE-HALF TO ALEXANDER A. ELGE, OF SAME PLACE.

## MINER'S CANDLESTICK.

SPECIFICATION forming part of Letters Patent No. 410,802, dated September 10, 1889.

Application filed February 9, 1889. Serial No. 299,246. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY M. MIXTER, of Empire, in the county of Lewis and Clarke and Territory of Montana, have invented a new and Improved Miner's Candlestick, of which the following is a specification, reference being had to the annexed drawings, forming a part thereof, in which—

Figure 1 is a perspective view of the front side of my improved miner's candlestick. Fig. 2 is a plan view, and Fig. 3 is a perspective view, of the rear side.

Similar letters of reference indicate corresponding parts in all the views.

The object of my invention is to provide a miner's candlestick, which may be supported by thrusting its point into the earth or into a crevice in the rock, or by hooking it upon the wall of the mine.

My object, also, is further to provide, in combination with the candlestick, a nipper for pressing caps upon fuses.

My invention consists in the combination, with a pointed bar having a loop-handle at one end, of a spring-socket for receiving a candle, a nipper for compressing the caps upon fuses, and a hook and claw for attaching the candlestick to the wall of a mine, all as hereinafter more fully described.

The body of the candlestick is formed of the bar A, provided at one end with a point *a* and at the opposite end with a loop-handle *b*. One side of the bar A is furnished with a nipper-jaw *c*, provided with a concave edge *d*. To the bar A is fitted a head B, provided with a clamping-screw *e* for fastening it upon the bar A. A spring-loop *f* is formed integrally with the head B, and provided with a thumb-piece *g* for expanding it for receiving a candle. The upper part of the head B is provided with a curved pointed hook *h*, the point of which extends at right angles to the plane of the bar A. The lower part of the head B is furnished with claws *i*, which extend in the same direction as the hook *h*, and which serve, in conjunction with the hook, to support and steady the candlestick upon the wall of the mine. The lower side of the head B is provided with ears *j*, be-

tween which is pivoted an ear *k* of the nipper-lever C. The nipper-lever C is provided with a jaw *c'*, which antagonizes the jaw *c*, and is furnished with a concave edge *d'*, corresponding with the edge *d* of the opposite jaw. The extremity of the nipper-lever C nearest the loop-handle *b* is provided with a stud *l*, which extends through a mortise *m* in the bar A to guide the said jaw. This end of the lever C is also provided with a ring *n* for receiving the finger by which the nipper is operated. The opposite end of the nipper-lever is prolonged to form a stop *o*, which strikes the under surface of the bar A when the nipper-jaws are open. This stop *o* has its end flattened and can be used as a screw-driver.

The candle is inserted in the loop *f* by springing back the thumb-piece *g*.

The candlestick is supported by inserting the point *a* in the earth or in a crevice in the wall of the mine, or by bringing the hook *h* into engagement with some projection of the wall and allowing the claws *i* to engage the surface of the wall.

The nipper is used by placing the cap upon the end of the fuse, inserting the cap between the jaws *c c'*, and bringing their concave edges to bear upon the cap so as to compress it upon the fuse.

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

1. In a miner's candlestick, the combination, with a pointed bar provided with a handle, of a head detachably secured on the bar a short distance from the handle and provided with the spring-loop *f*, the hook *h*, and the claws *i*, substantially as described.

2. In a miner's candlestick, the combination, with a pointed bar provided with a handle at one end and a jaw on its under side, of a head detachably secured on the bar and provided with a candle-loop and a hook and claws, and a nipper-lever pivoted to the head, substantially as herein shown and described.

3. In a miner's candlestick, the combination, with the pointed bar A, provided with the loop-handle *b*, the mortise *m*, and the jaw *c*, of the head B, provided with the spring-

loop *f*, the hook *h*, the claws *i* and ears *j*, and the nipper-lever C, furnished with the jaw *c'* and stud *l*, substantially as specified.

4. In a miner's candlestick, the combina-  
5 tion, with the pointed bar A, provided with the loop-handle *b*, the mortise *m*, and the jaw *c*, of the head B, provided with the spring-loop *f*, the hook *h*, the claws *i* and ears *j*, and

the nipper-lever C, furnished with the jaw *c'*, the stud *l*, and ring *n*, substantially as speci- 10  
fied.

HENRY M. MIXTER.

Witnesses:

THEODORE SHED,  
ALBERT G. TURNER.