(No Model.) 2 Sheets—Sheet 1.

R. CLINCH.

MINER'S FOLDING CANDLESTICK.

No. 589,594. Patented Sept. 7, 1897.

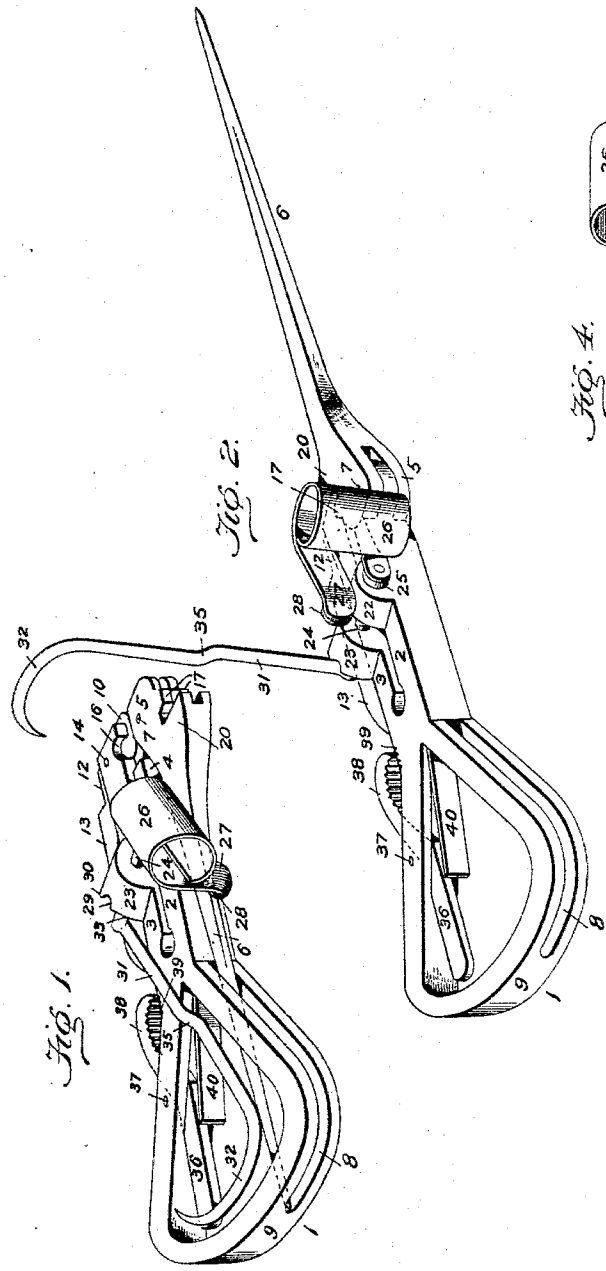


Fig. 1.

Fig. 2.

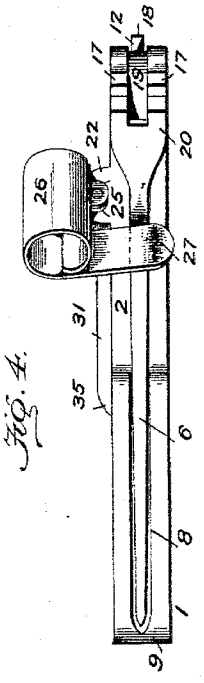


Fig. 4.

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(No Model.) 2 Sheets—Sheet 2.

R. CLINCH.

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Fig. 5.

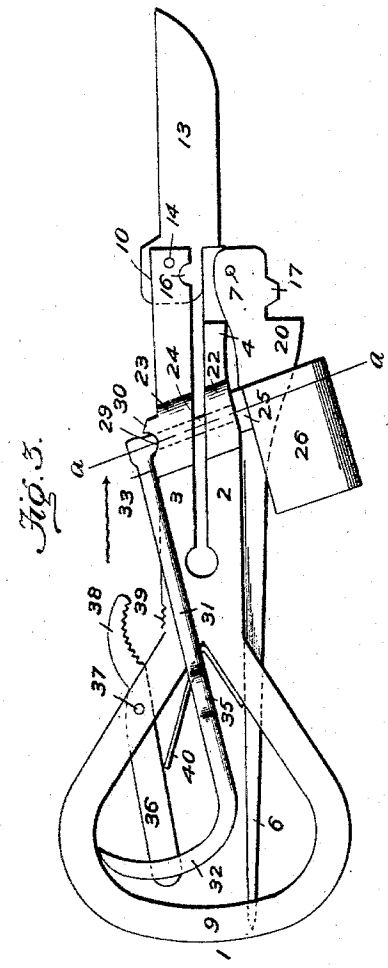
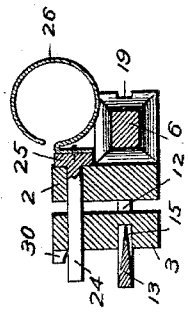


Fig. 5.



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UNITED STATES PATENT OFFICE.

ROBERT CLINCH, OF COMBINATION, MONTANA.

MINER'S FOLDING CANDLESTICK.

SPECIFICATION forming part of Letters Patent No. 589,594, dated September 7, 1897.

Application filed November 28, 1896. Serial No. 613,784. (No model.)

To all whom it may concern:

Be it known that I, ROBERT CLINCH, a citizen of the United States, residing at Combination, in the county of Granite and State of Montana, have invented certain new and useful Improvements in Miners' Folding Candlesticks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in combination-candlesticks for miners' use, and the object is to provide a candlestick of this kind that combines several other implements and is capable of being folded and carried in the pocket.

To these ends the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same figures of reference indicate similar parts of the invention.

Figure 1 is a perspective view of my improved combination-candlestick as it appears when folded up. Fig. 2 is a similar view of the same as it appears when ready for use. Fig. 3 is a plan view showing the knife-blade open. Fig. 4 is a side elevation showing the spike folded into the handle, and Fig. 5 is a transverse diagonal view on the dotted line *a a* of Fig. 3.

1 represents the handle, preferably made of steel, the integral parallel arms 2 3 being spring-tempered to give them resiliency, the outer end 4 of the arm 2 being rabbeted to receive the bifurcated end 5 of the spike 6, which is pivoted thereto by a rivet 7 and which folds backward parallel with said arm, the pointed blade of the spike folding into a slot 8 in the handle-bow 9. The outer end of the opposite arm 3 is formed with a slot 10, in which is pivoted the shank 12 of a knife-blade 13 by a rivet 14, and when not in use this blade folds into a recess 15 in the outside of said arm. The inner face of this arm 3 is formed with a transverse recess 16, which engages the corresponding lugs 17 on the bifurcated end 5 of the spike, and the outer end 18 of the shank 12 of the knife-blade extends into a slot 19 in the right-angular shoulder 20 of the end 5 of the spike, which serves to stiffen the spike when it is in use.

22 and 23 represent integral lugs on the arms 2 and 3, respectively, and in them is mounted a diagonal transverse shaft 24, one end of which is formed with a collar 25, to which is secured a spring candle-holder 26, having a projecting lip 27, by means of which the holder may be sprung open to adjust the candle in it. One side of this lip is provided with a lug 28, which engages the edge of the spike when folded in the handle and serves to retain it in place.

The outer face 33 of the lug 23 is formed with a notch 29 and a shoulder 30. The shank 31 of the hook 32 is rigidly secured to the outer end of the shaft 24, and when the hook is opened at a right angle to the jaws 2 3 it also carries the candle-holder parallel with it and the shank of the hook rests against the shoulder 30 and at the same time rests in the notch 29, which retains both the hook and candle-holder in an upright position.

It will be observed that the outer face 33 of the lug 23 is beveled or at an incline with reference to the arm 3, and consequently in opening the hook its shank, contiguous to the shaft 24, rides on this inclined face and serves to draw the parallel arms 2 3 together, thus rigidly locking the spike in place when extended, or when it is closed and the knife-blade opened the inner parallel side of the end of the arm 2 binds against the contiguous parallel edge 34 of the shank of the knife-blade and locks it in place.

The shank 31 of the hook 32 is formed with an offset 35, which allows the point of said hook to lie flat in the handle-bow 9.

36 represents a lever fulcrumed in the handle-bow by a rivet 37, its outer end forming a curved jaw 38, the inner concave face of which is serrated to correspond to the contiguous serrated recess 39 in the arm 3, and 40 represents a V-shaped spring, one end of which is secured to the inside of the handle-bow, and its free end presses against the lever 36, as shown. This lever is intended for use in crimping the caps on the fuses used in blasting.

Although I have specifically described the construction and relative arrangement of the

several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

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

1. A miner's candlestick, comprising the parallel spring-arms 2 and 3, the spike 6 hinged to the arm 2 and the blade 13 pivoted in the arm 3, in combination with the transverse shaft 24, having a collar 25, the candle-holder 26 secured thereto, and the hook 32, having its integral shank 31 secured to one end of the shaft 24, substantially as shown and described.

2. A miner's implement, comprising the handle-bow, having integral parallel spring-arms 2 3, provided with lugs 22, 23, the latter provided with an inclined face 33, notch 29 and shoulder 30, the shaft 24 journaled in said lugs and having an integral collar 25, a candle-holder secured to said collar and provided with a lip 27 having retaining-lug 28, and the hook 32 having its shank 31 secured to said shaft so as to engage said notch and shoulder on the lug 23, in combination with the spike 6 hinged to the outer end of the arm 2, and its shank adapted to engage the lug on the lip 27, when folded, substantially as and for the purpose set forth.

3. A miner's implement, comprising the handle-bow, the integral parallel spring-arms provided with lugs 22 23, the latter having an inclined face 33, notch 29 and shoulder 30, the shaft 24 journaled in said lugs and provided at one end with a collar to which is fixed a spring candle-clamp and the hook 32 having its shank 31 secured to the other end, in combination with the hinged spike 6, the pivoted knife-blade 13, and the lever 36 fulcrumed in the handle-bow, and having a serrated jaw contiguous to the recess 39 in one of said arms, substantially as and for the purpose set forth.

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

ROBERT CLINCH.

Witnesses:
JULIUS HANSEN,
W. E. MOORE.