(No Model.)

G. A. TEEL.

FUSE CAPPER.

No. 527,132. Patented Oct. 9, 1894.

Fig. 1.

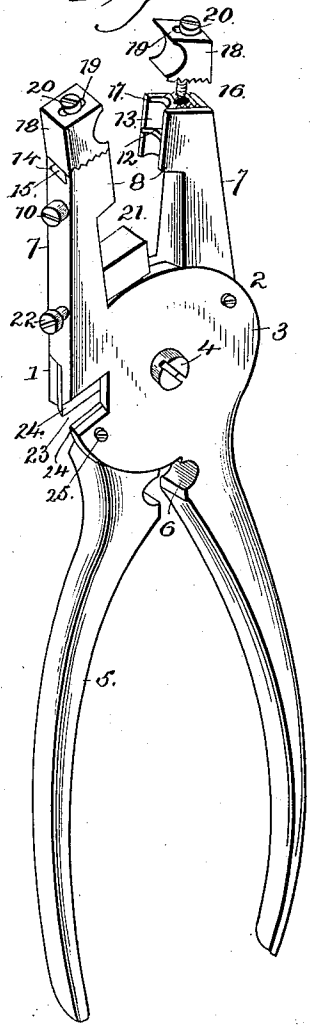
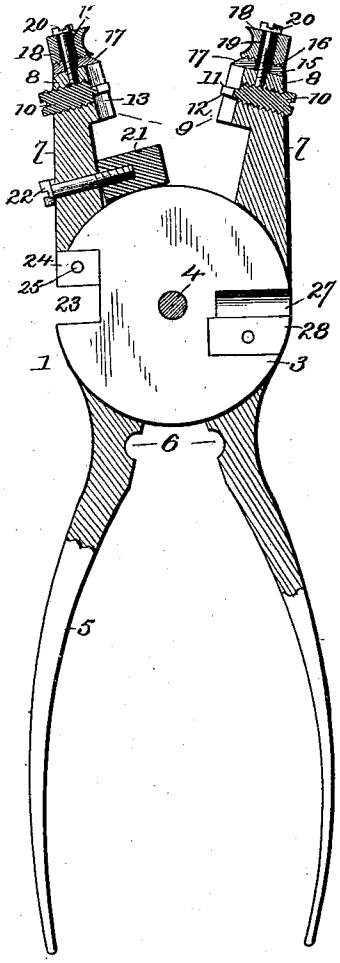


Fig. 2.



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UNITED STATES PATENT OFFICE.

GEORGE A. TEEL, OF NEWPORT BEACH, CALIFORNIA.

FUSE-CAPPER.

SPECIFICATION forming part of Letters Patent No. 527,132, dated October 9, 1894.

Application filed November 1, 1893. Serial No. 489,729. (No model.)

To all whom it may concern:

Be it known that I, GEORGE A. TEEL, a citizen of the United States, and a resident of Newport Beach, in the county of Orange and State of California, have invented certain new and useful Improvements in Fuse-Cappers; and I do hereby 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.

This invention relates to a fuse capping and crimping implement, and has for its objects to provide a device of the character set forth, which is adapted to cutting a fuse, crimping the cap, and making the cap water proof without the use of tallow, tar, pitch, or any other grease that is commonly used for the purpose, without injury to the cap or fuse and one which is absolutely safe and can be employed by an inexperienced miner with perfect ease and facility.

With these and other objects in view, the invention consists of the construction and arrangement of the several parts which will be more fully hereinafter described and claimed.

In the drawings: Figure 1 is a perspective view of an implement, embodying the invention. Fig. 2 is a central, longitudinal, vertical section.

Similar numerals of reference are employed to indicate corresponding parts in both the figures.

Referring to the drawings, the numerals 1 and 2 designate the jaws which are formed with central heads 3, properly mortised and shouldered to be fitted into each other and removably attached by a screw 4. Extending rearwardly from each of the heads 3, is a rein or handle 5, and adjacent to the said heads 3, the reins or handles are formed with semi-circular grooves 6, extending in a transverse direction and forming a fuse resizer. Extending forwardly from each of the heads 3, is a jaw 7, each of which is supplied with an enlarged outer end 8 having a vertical opening 9, which is screw-threaded to receive a screw-threaded crimping plug 10, having its free end, which projects through the inner edge of the jaw, reduced as at 11, and formed with a concave groove 12. The inner edge of each jaw is concaved as at 13 throughout the length of the enlargement 8, and at the front is formed with a dove-tailed slot 14, in which is mounted a similarly formed plate 15, having an outer serrated surface 16, and an inner concave edge 17, which is slightly beveled to form a biting edge. Adjustably mounted on the plates 15 are slides 18, which are slotted as at 19, and are adjustably held in place by set screws 20, the inner faces of the said slides being serrated to engage the serrated surfaces of the said plates 15. By adjusting these slides the outer crimp may be regulated as will be readily understood. Secured in connection with one of the jaws 7 is a rubber block 21, which forms a gage for the cap and is held by the adjusting screw 22. By the use of this rubber block the water proof crimp is caused to come in the right place, and the yielding nature of the block insures absolute safety from an explosion of the said cap.

The heads 3 at one side are formed with notches or openings 23, adjacent to which and projecting slightly thereover, are cutters 24, which are removably held in position by screws 25, so that they can be readily disconnected, and sharpened when desired. In the opposite edges of the heads 3 are also located transverse openings 27, which are supplied with cutters 28, and are used to cut the fuse into lengths, or trim the same, while the opposite cutters are adapted to be used in making a partial longitudinal cut which is frequently necessary in the operation of arranging fuses and caps. It will be seen that the screw-posts in the outer ends of the jaws 7 are adjustable to regulate different sizes of crimps and to accommodate various dimensions of caps.

The device as constructed and arranged is especially intended for the use of miners, but it may be employed for other purposes. The crimping jaws are of steel and have two different crimps with one motion of the hand. One crimp is for the purpose of securing the cap to the fuse, and the second crimp is to make it absolutely water proof.

It is obviously apparent that many minor changes in the construction and arrangement of the several parts might be made and substituted for those shown and described, with-

ut in the least departing from the nature or pirit of the invention.

Having thus described the invention, what s claimed as new is—

1. In an implement of the character set orth, the combination of a pair of jaws hav- ng relatively adjustable crimping devices in connection therewith and a rubber gage block carried by one of said jaws, substantially as described.

2. In an implement of the character set forth, the combination of a pair of jaws hav- ing heads with cutters thereon, and handles with fuse resizing recesses adapted to rela- tively co-act, grooves in the outer ends of said jaws, screw-posts adjustably mounted in said jaws, and having inner reduced ends with concave grooves therein, outer dove-tail plates with serrated surfaces and slides adjustably mounted on said serrated plates, substan- tially as described.

3. In an implement of the character de- scribed, a combination of a pair of jaws made concave in their inner edges, crimping plugs having their inner ends formed with a con- cave and extended int, the said concave edges of the jaws and adjustable relative to the latter, and slides relatively adjustable on the ends of the jaws substantially as described for the purpose specified.

4. In an implement of the character de- scribed, the combination of a pair of jaws, made concave in their inner edges, crimping plugs having their inner ends formed to a concave and extending into the said concave edges of the jaws, and adjustable relative to the latter, plates held in dovetail grooves in the ends of the jaws and serrated on their outer ends, slides adjustable on the said plates, and having their inner faces serrated, and means for holding the said slides in the adjusted position, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscrib- ing witnesses.

GEORGE A. TEEL.

Witnesses:
RAY BILLINGSLEY,
C. W. HUMPHREYS.