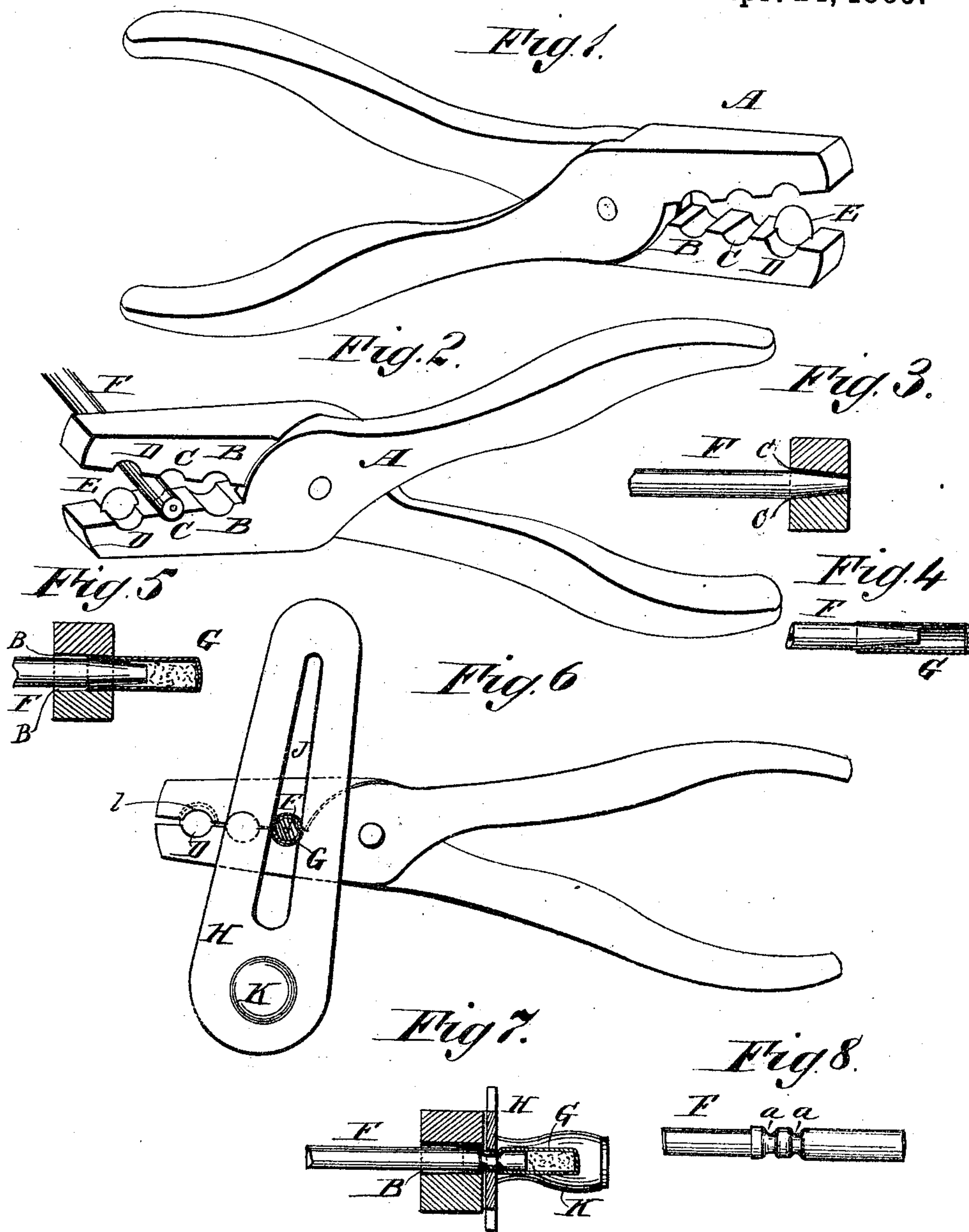


(Model.)

F. P. PICKING.
FUSE CUTTER AND CAPPER.

No. 276,459.

Patented Apr. 24, 1883.



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UNITED STATES PATENT OFFICE.

FRANK. P. PICKING, OF SPARKILL INDEPENDENCE, COLORADO.

FUSE CUTTER AND CAPPER.

SPECIFICATION forming part of Letters Patent No. 276,459, dated April 24, 1883.

Application filed December 23, 1882. (Model.)

To all whom it may concern:

Be it known that I, FRANK. P. PICKING, of Sparkill Independence, in the county of Pitkin and State of Colorado, have invented a new and Improved Fuse Cutter and Capper, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved device for cutting fuses and securing explosive caps on the ends of the same.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved fuse-cutter. Fig. 2 is a perspective view of the same, showing the manner of tapering the end of a fuse. Fig. 3 is a cross-sectional elevation through the jaws, showing the manner of tapering the end of a fuse. Fig. 4 is the end of a fuse with the shell of a cap placed on the same, the cap being shown in section. Fig. 5 is a similar view, showing the manner of pressing the cap on the fuse. Fig. 6 is a longitudinal elevation of the fuse-cutter, showing the manner of forming the grooves in a cap. Fig. 7 is a cross-sectional elevation of the same. Fig. 8 is a longitudinal elevation of the cap, showing the same secured on the end of a fuse.

The pliers A have three transverse grooves, B C D, in the inner surfaces of each jaw, of which grooves the middle ones, C, are made tapering. The outer groove, D, of one jaw contains a cutting-disk, E, which is secured transversely in the groove, and which disk, when the jaws are closed, passes into a groove, I, in the groove D of the opposite jaw, and parallel with the jaw. The said disk is used to cut a fuse, which is placed in the groove D of the opposite jaw, whereupon the two jaws are pressed together, whereby the end of the fuse is cut off squarely and evenly, and the fuse will not be damaged. The end of the fuse F cut off in this manner is

placed between the jaws of the pliers and within the tapering grooves C, and is pressed between the said jaws, whereby the end of the fuse will be tapered. An explosive cap, G, is then placed on the end of the fuse, and the fuse and the cap are placed between the jaws and in the grooves B, and the inner end of the cap G is pressed on the end of the fuse. The fuse must be tapered so that it will easily enter the cap G. The fuse and the cap are then held between the jaws of the pliers in the grooves B, and then annular grooves *a a* must be formed in the inner end of the cap to hold the said cap on the fuse, and part of the metal of the cap must be forced into the fuse. This is accomplished by means of a metal strip, H, provided with a tapering slot, J, and with a handle, K. The projecting end of the cap G is passed through the slot J and moved toward the narrow end of the same until the edges of the slot press firmly against the metal of the cap. Then the plate or strip H is turned and gradually forces the metal of the cap inward, whereby the annular grooves *a* will be formed. The cap is thus held firmly on the fuse and a perfectly air and water tight joint is formed, and the explosive mass in the cap cannot be injured by water or in any other way or manner.

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

1. A fuse cutting and capping tool provided with the opposite tapering grooves C C in its jaws, whereby the end of the fuse may be made slightly conical, as and for the purpose specified.

2. The combination of the tool having the opposite grooves B B in its jaws, and the metallic strip H, having the tapering slot J, as and for the purpose specified.

FRANK. PIERCE PICKING.

Witnesses:

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