

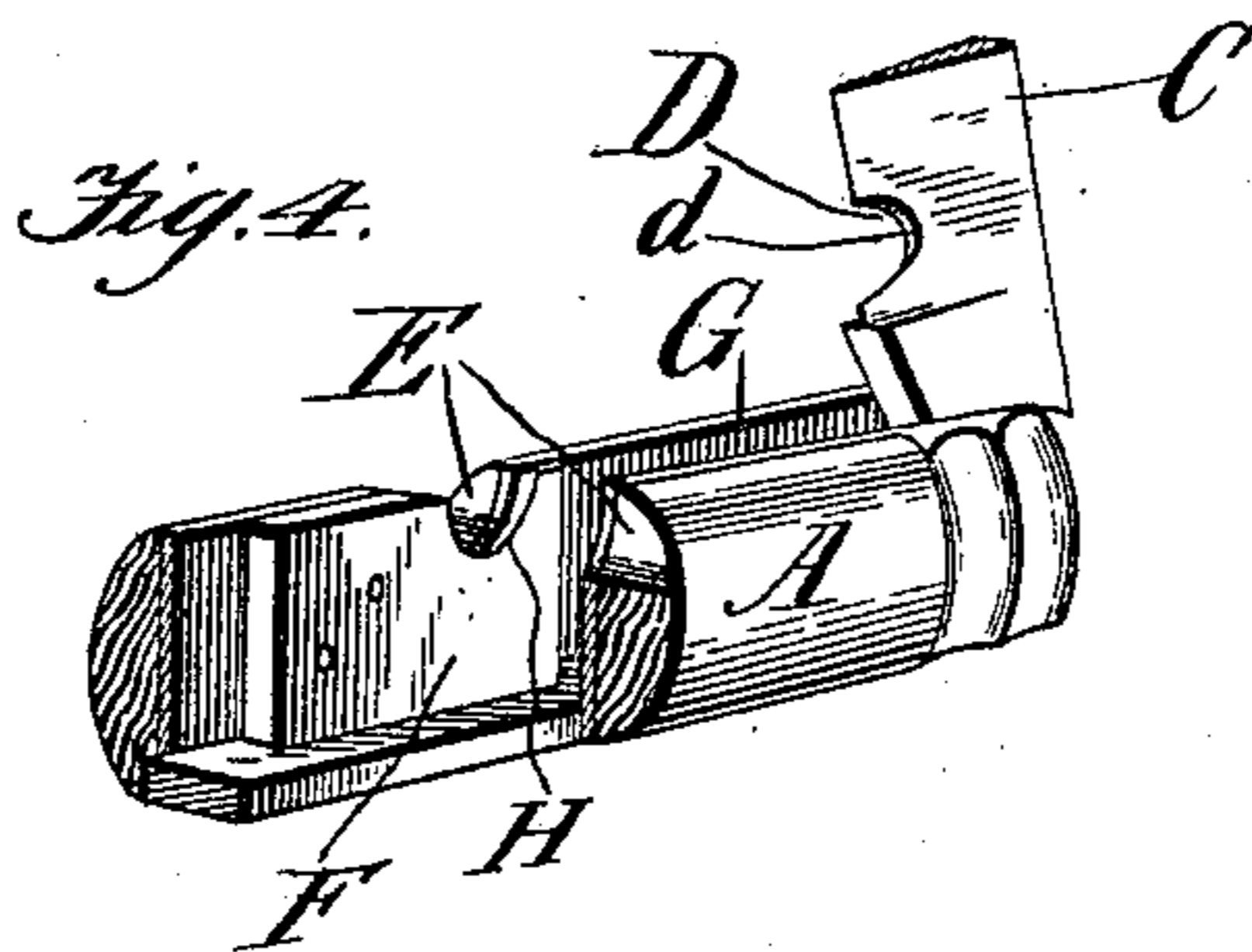
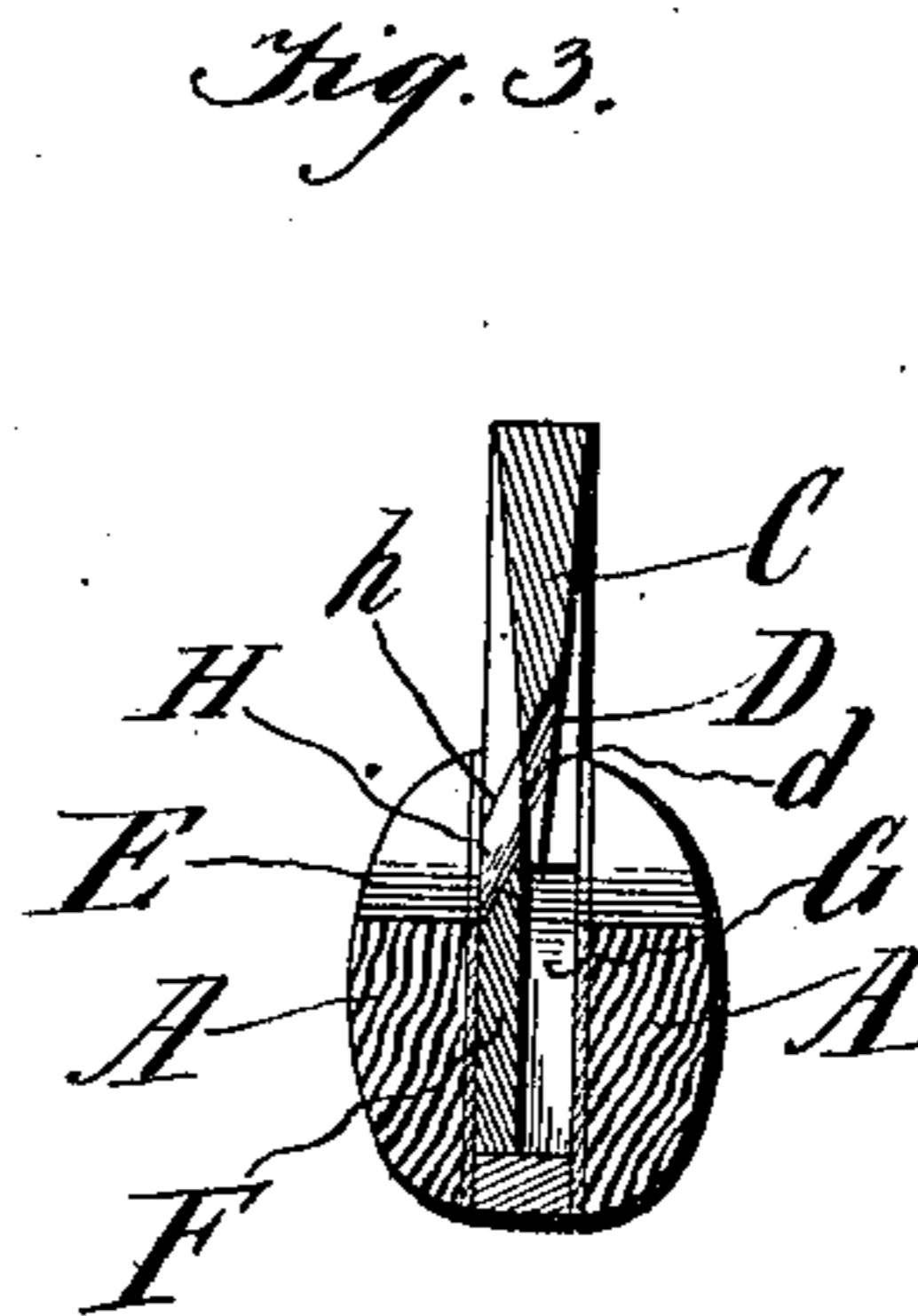
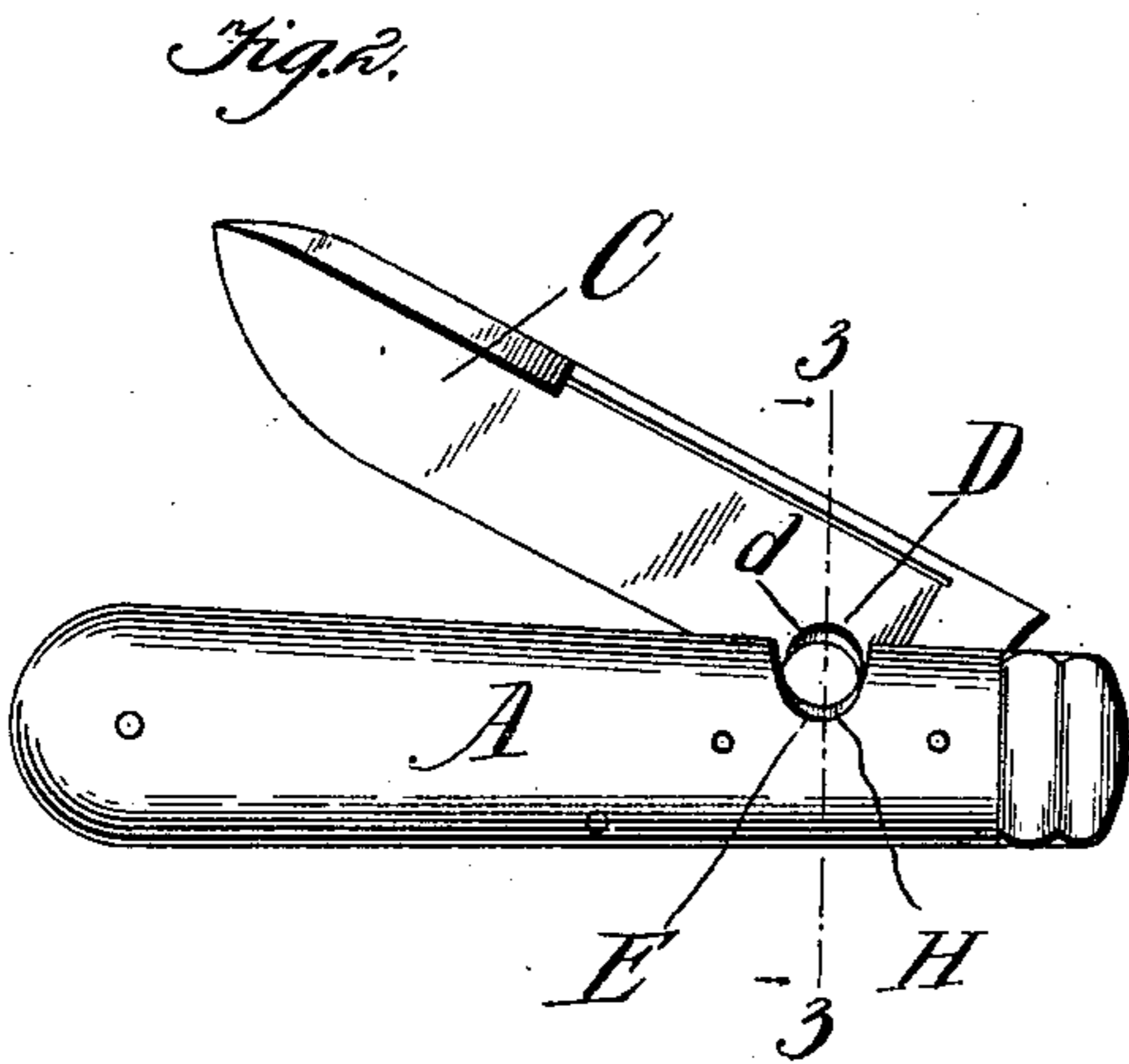
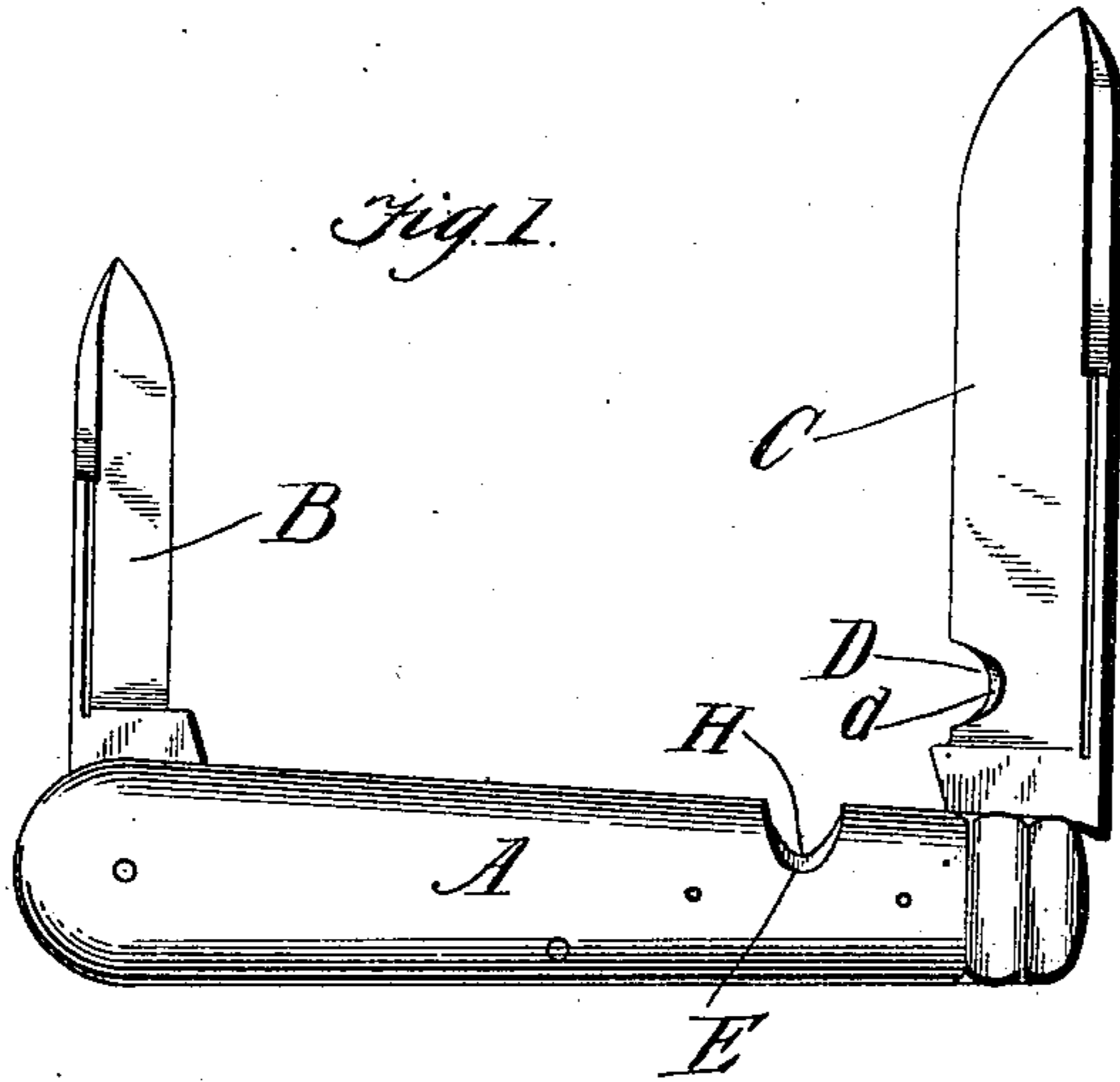
No. 680,643.

Patented Aug. 13, 1901.

H. COGEEN.  
CAP CRIMPING TOOL.

(Application filed Apr. 22, 1901.)

(No Model.)



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HARRY COGEEN, OF GOLDFIELD, COLORADO, ASSIGNOR OF ONE-HALF TO  
ANGUS G. ADAM, OF SAME PLACE.

## CAP-CRIMPING TOOL.

SPECIFICATION forming part of Letters Patent No. 680,643, dated August 13, 1901.

Application filed April 22, 1901. Serial No. 56,874. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY COGEEN, a citizen of the United States, residing at Goldfield, in the county of Teller and State of Colorado, have made certain new and useful Improvements in Cap-Crimping Tools, of which the following is a specification.

My invention is an improvement in devices designed for crimping the caps on the fuses commonly used by miners; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side view of a knife embodying my invention, the crimping-blade and the smaller blade at the opposite end of the handle being in open position. Fig. 2 is a side view of the knife, the small blade being closed and the crimping-blade being adjusted to position for crimping the cap. Fig. 3 is a cross-sectional view drawn through the crimping devices on about line 3 3 of Fig. 2. Fig. 4 is a detail perspective view showing the location of the seat-plate or plate which opposes the blade in the crimping action.

The handle A may in general respects be similar to an ordinary knife-handle, and may be provided with the small blade B at one end, such blade B and the larger crimping-blade C being arranged to fold when not in use into the knife-handle, as is usual with knives. The crimping-blade is provided in its edge with an approximately semicircular notch at D, which registers when the blade is partially closed, as shown in Fig. 2, with notches E in the edges of the handle, such notches E being arranged to receive the cap and fuse while being crimped. The notch D is preferably beveled off at *d*, as shown. I provide a plate F, arranged within the handle and opposite or in position to oppose the blade C during the crimping operation. This plate F is secured within the blade-recesses G of the handle, is preferably made fast to the inner face of one side section of the handle, and has at H a notched portion in register with the notches E of the handle, but projecting slightly beyond the same and arranged to complete with the notch D in the blade C the crimping-circle. The notch H is

beveled on its side *h* opposite to the bevel *d* of the notch D, so the blade C and the seat-plate F may form a shear construction for use whenever desired.

It will be noticed that the seat-plate is secured within the handle and is opposite the blade C, so the notches will form a circle to receive the cap, and the opposing blades will crimp the cap into contact with the fuse when the blade and seat-plate are partially closed upon the cap. In this operation the grooves E form a seat for the cap on opposite sides of the crimping devices, and the crimping devices include two opposing edged surfaces, which will operate efficiently in crimping the cap securely upon the fuse.

Manifestly the seat-plate being separate from the handle may be removed for sharpening or when impaired, and be replaced without affecting any other portion of the knife.

Manifestly the crimping construction of the device does not in any way interfere with the use of the implement as a knife, and as a knife is almost indispensable to a miner the crimping-tool is combined with the knife, so the miner has both the knife and crimping-tool combined in one implement.

The construction is simple, inexpensive, free of complications, and provides a tool within the means of every miner, which will combine the advantages of a knife and a cap-crimper, in which the cap-crimping part, in connection with the handle, can be readily removed and replaced whenever desired.

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

1. A device for use in crimping caps upon fuses, the same consisting of a knife-handle provided in its opposite sections with grooves to receive the cap and having within its blade-recess a separate seat-plate secured to the inner face of one of the handle-sections and provided with a notch registering with the cap-grooves in the handle-sections, such seat-plate projecting at its grooved portion beyond the grooves of the handle-sections and the crimping-blade secured in said handle and arranged to be adjusted in close relation to the seat-plate and having in its edge a notch arranged when the blade is partially

closed to complete with the notch in the seat-plate approximately a circle to fit around the cap, substantially as set forth.

2. A device for use in crimping caps on  
5 fuses comprising a handle, a blade pivoted thereto and having a semicircular crimping-notch, and a separate seat-plate secured within the blade-recess of the handle, and ar-

ranged to oppose the blade and provided with a notch arranged to combine with that in the blade to form a circle around the cap, substantially as set forth. 10

HARRY COGEEN.

Witnesses:

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