

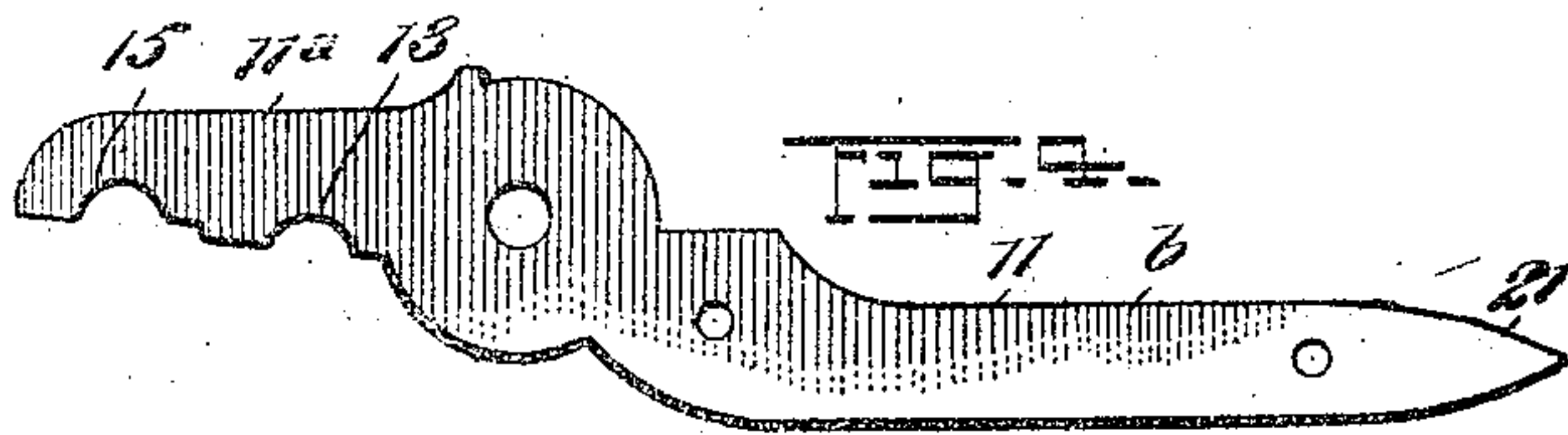
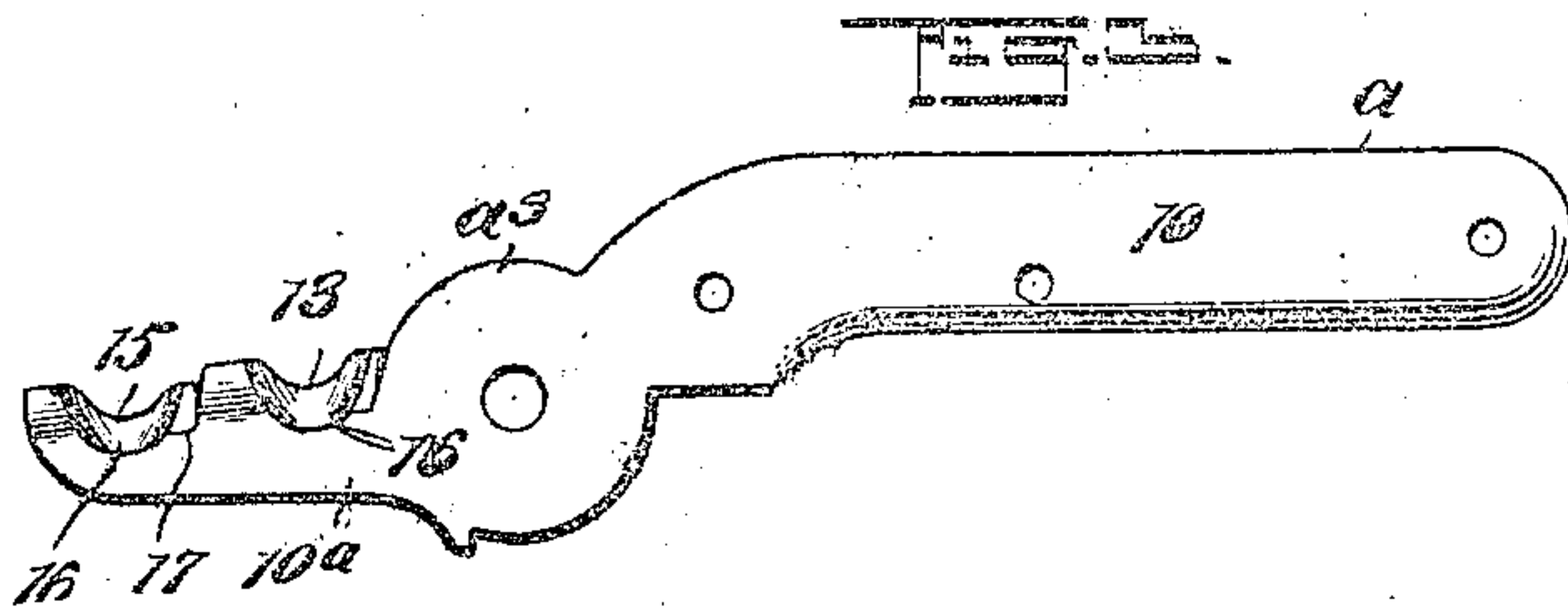
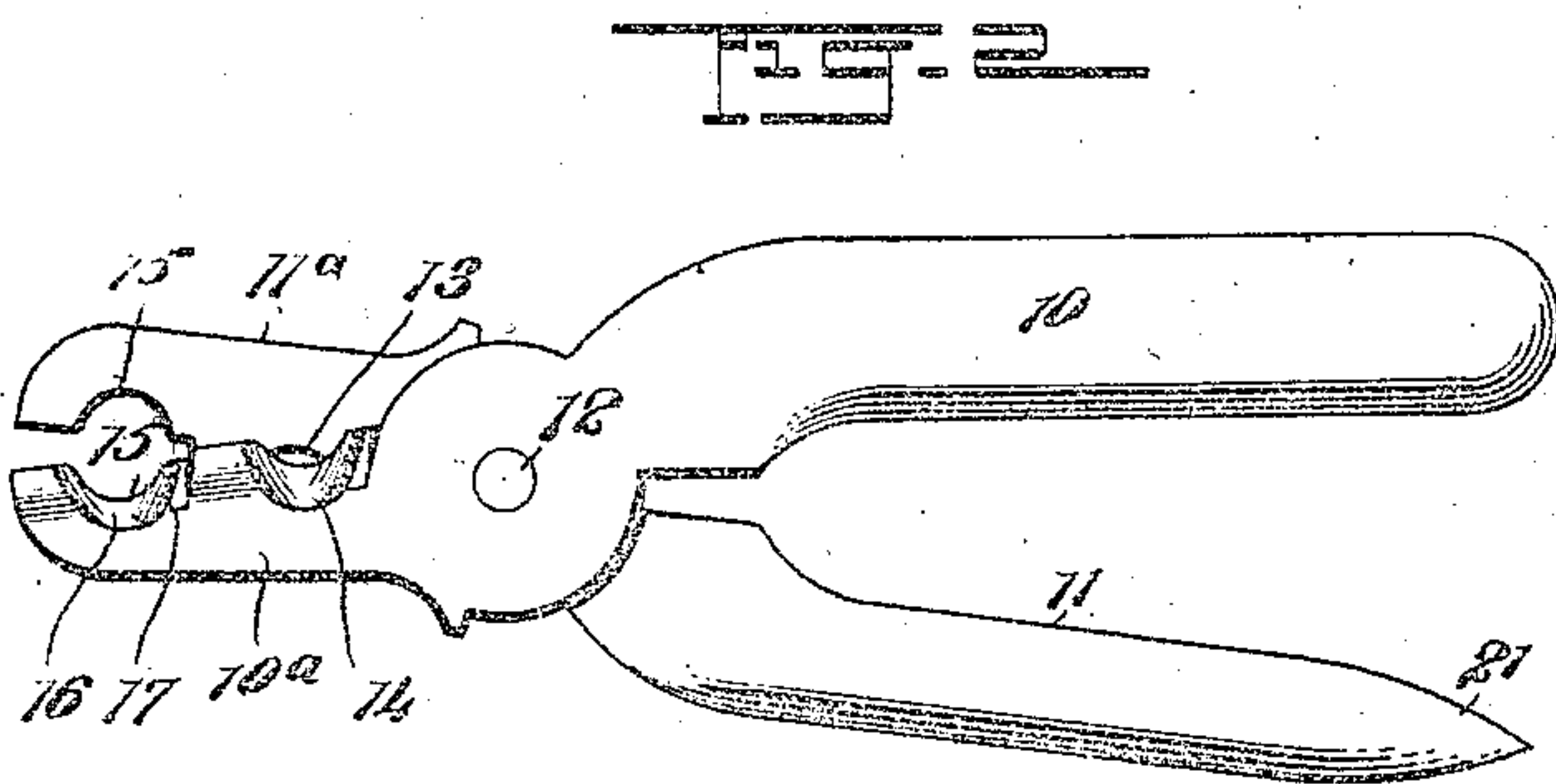
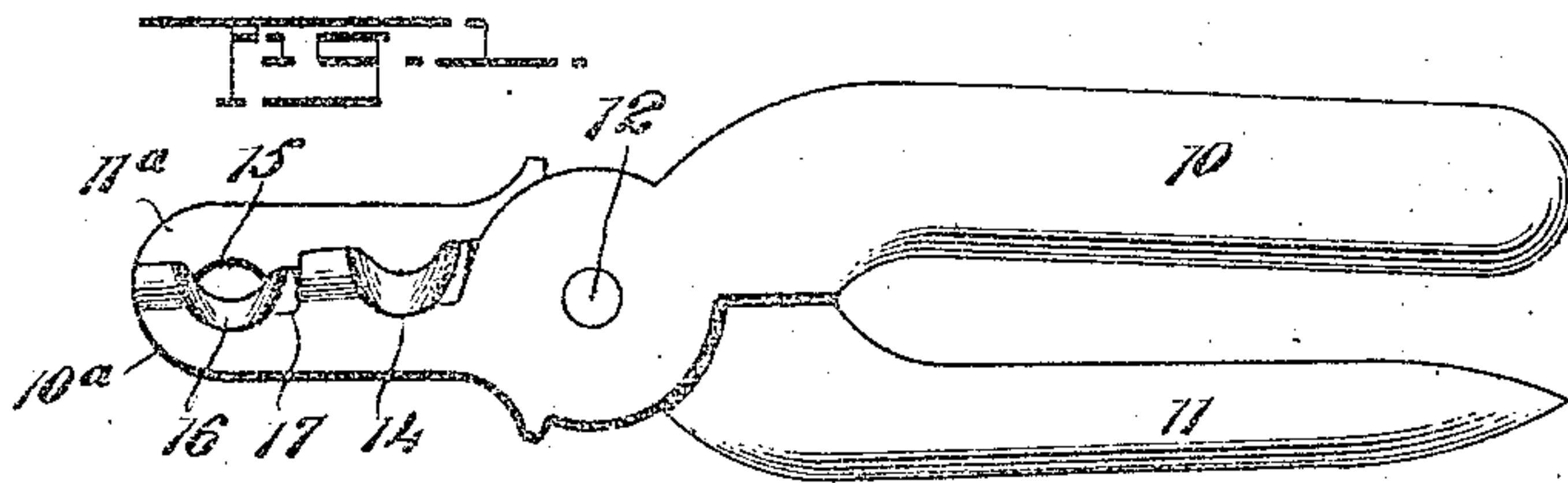
No. 692,637.

Patented Feb. 4, 1902.

A. V. DES MOINEAUX.
MINER'S SAFETY LOADING TOOL.

(Application filed Apr. 16, 1901.)

(No Model.)



WITNESSES:

Julius H. Heston
Frederick H. Heston

INVENTOR

Alfred V. Des Moines

BY

Mumford

ATTORNEYS

UNITED STATES PATENT OFFICE.

ALFRED VICTOR DES MOINEAUX, OF SILVERPLUME, COLORADO.

MINER'S SAFETY LOADING-TOOL.

SPECIFICATION forming part of Letters Patent No. 692,637, dated February 4, 1902.

Application filed April 16, 1901. Serial No. 56,104. (No model.)

To all whom it may concern:

Be it known that I, ALFRED VICTOR DES MOINEAUX, a citizen of the United States, and a resident of Silverplume, in the county of Clear Creek and State of Colorado, have invented a new and Improved Miner's Safety Loading-Tool, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved safety loading-tool combining certain implements required by the miner in preparing blasts, which implements are so combined that they may be compactly folded and the tool carried conveniently in the pocket.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

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

Figure 1 is a plan view of the complete tool. Fig. 2 is a plan view of the tool. Fig. 3 is a plan view of a portion of one section of the tool. Fig. 4 is a plan view of that member of the tool which carries the fuse and cap inserter.

The tool virtually consists of two handle members 10 and 11, pivoted together by a suitable pin 12, and jaws 10^a and 11^a, which jaws form continuations of the handle-sections 10 and 11. These jaws 10^a and 11^a are adapted to close one upon the other and have sliding contact. Each jaw 10^a and 11^a near its pivotal point is provided with a curved recess 13, the recesses being in the inner edges of said jaws and in registry one with the other. The inner edge of each jaw where a recess 13 is made is a cutting edge, and the outer face of each jaw 10^a and 11^a where a recess 13 is formed is provided with a beveled surface 14. (Shown in Figs. 1, 2, and 3.) These opposing recesses in the jaws 10^a and 11^a constitute a fuse-cutter, and when a fuse is passed between the said recessed portions 13 of the jaws and the jaws are closed together the fuse will be severed with a straight positive cut.

At the outer end of each jaw 10^a and 11^a

opposing recesses 15 are produced, and the inner edges of the opposing recesses 15 are sharpened to a greater or less extent. The outer faces of the jaws 10^a and 11^a are provided with beveled surfaces 16 at the recesses 15, and adjacent to the inner end of each recess 15 a transverse shoulder 17 is formed upon the outer face of each jaw 10^a and 11^a. These opposing recesses 15, with their shoulders 17, act as cap-crimpers and quickly and effectually crimp or secure the cap to the fuse when the cap is passed between the recesses 15 and the edges are brought together.

The handle-section 11 of the tool is adapted to be used also as a fuse and cap inserter, namely: This handle-section is adapted to drill a hole in a stick of powder or other explosive, in which the fuse and cap are introduced. To that end the rear extremity 21 of the handle-section 11 is made conical or pointed, as is shown in Figs. 1 and 2. The handle-section 11 comprises three parts—the part *b*, (shown in Fig. 4,) with which the jaw 11^a is connected, and two parts *b'* and *b''*, which are attached in any suitable or approved manner to the side portions of the main part *b*, all of the parts *b*, *b'*, and *b''* being correspondingly beveled or pointed at their inner ends.

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

1. A miner's safety loading-tool, comprising a pair of twin jaws, free to shear past each other, and provided with operating edges for engaging a fuse and with idle indicating edges for showing the relative position of the operating edges.

2. A miner's safety loading-tool, comprising a pair of twin members connected by a pivot, each member being provided with a jaw radiating from said pivot, each jaw being free to shear past the other, and provided with operating edges for engaging a fuse, and also with idle indicating edges for exhibiting the relative position of said operating edges.

3. In a miner's combination-tool, a pair of opposing jaws each provided with a cutting edge and a crimping edge, in combination with an indicator for showing the relative position of the opposing jaws with regard to each other, substantially as described.

4. In a miner's combination-tool, a pair of opposing twin jaws each provided with a cutting edge and a crimping edge, and provided also with a transverse shoulder located adjacent to said crimping edge, said jaws being free to slide upon each other with a shearing motion and so arranged that the relative position of the opposing crimping edges will be indicated by the relative position of the opposing transverse shoulders, and means for actuating said jaws, substantially as described.

5. A miner's safety loading-tool, comprising a pair of twin members connected by a pivot, each member being provided with a jaw radiating from said pivot, each jaw being free to shear past the other, and provided with a cutting edge and with a crimping edge, said

edges being formed upon the same surface of the jaw and in alinement with the pivot.

6. A miner's safety loading-tool, comprising a pair of twin members connected by a pivot, each member being provided with a jaw radiating from said pivot, each jaw being free to shear past the other, and provided with a cutting edge, a crimping edge and an idle indicating edge for showing the relative position of the jaws.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED VICTOR DES MOINEAUX.

Witnesses:

A. B. CLARK,
C. A. LYON.