

(No Model.)

C. F. BOWMAN.

CUTTING NIPPERS.

No. 355,373.

Patented Jan. 4, 1887.

Fig. 1.

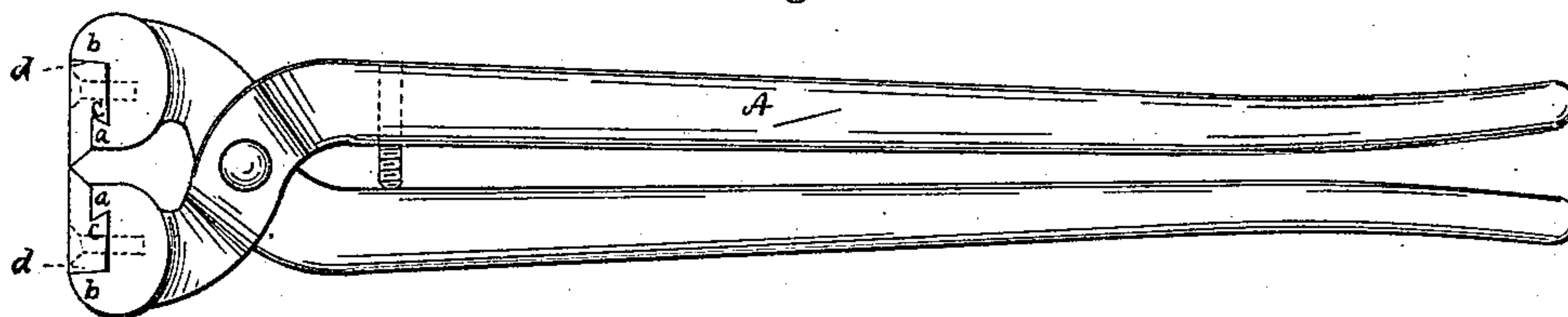
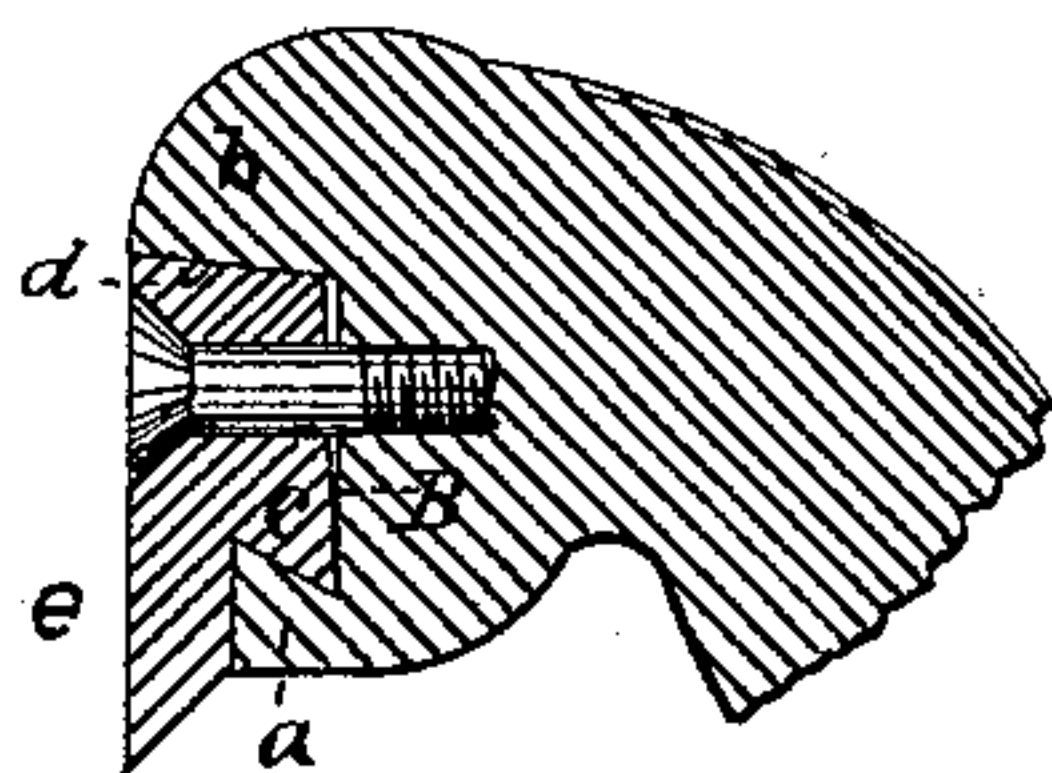


Fig. 2.



Witnesses:

J. Edward Ludington
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by Geo. Terry
Att'y

UNITED STATES PATENT OFFICE.

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CUTTING-NIPPERS.

SPECIFICATION forming part of Letters Patent No. 355,373, dated January 4, 1887.

Application filed June 30, 1886. Serial No. 206,696. (No model.)

To all whom it may concern:

Be it known that I, CHARLES F. BOWMAN, a citizen of the United States, residing at New Haven, in the county of New Haven, State of Connecticut, have invented certain new and useful Improvements in Cutting-Nippers, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

10 Figure 1 is a view of a pair of cutting-nippers with my improved detachable cutting-edges. Fig. 2 is an enlarged sectional view of one of the jaws and of a cutting-edge, and shows the screw holding the parts together.

15 My invention relates to that class of cutting-nippers which have detachable cutting-edges, the object being improved means for holding the cutting-edges to the jaws.

20 The invention consists in making a recess in the jaw, the front side of which is undercut, and the back side of which is slightly inclined, and in making the cutting-edge to fit into the same, as is hereinafter more fully described.

25 To enable others to make and use my improved nippers, I will give a description of the same in detail.

30 The nippers A are of the usual form and construction, except the jaws. The jaws have transverse grooves or recesses B, the front side, *a*, of which is lower or shorter than the back side by the thickness of the part *c* of the cutting-edge, and is undercut or dovetailed. The back side, *b*, of the recess forms an angle with the bottom of the same greater than a right angle, so that as the cutting-edge is forced into the recess it is forced forward and into the under-cut in the front part, *a*. The cutting-edges have the parts *e* extending over and beyond the front side, *a*, of the recess 40 and are made to fit into the recess B. In

order to make the cutting-edges sit firmly in the recess and be perfectly rigid, I make the parts in the recess a little longer than the recess, so that the rear ends will not touch the bottom of the recess, as shown in Fig. 2. The cutting-edges are fastened to the jaws by screws.

The construction may be somewhat varied without departing from the spirit of my invention. For example, the under-cut may be 50 in the cutting-edge and not in the jaw, and the jaw be made to correspond therewith.

Constructed as described, as the cutting-edges move in a circle the pressure of the edges against the wire to be cut will tend to raise the part *c* of the cutting-edge against the under-cut in the front part, *a*, of the recess, and the rear part of the cutting-edge downward against the inclined back part of the recess, so that the greater the pressure on the cutting-edges the tighter they will be held in the jaws. 60

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

A nipper-jaw, in combination with a detachable cutting-edge and a fastening device for holding them together, the jaw having a recess, the front side of which is lowest and undercut, the back side of which forms an angle with the bottom of the recess greater 70 than a right angle, the cutting-edge extending over and beyond the front side of the recess, and adapted to fit into it, as described.

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

CHARLES F. BOWMAN.

Witnesses:

GEORGE TERRY,
JAMES TERRY.