

(No Model.)

J. T. BOEN  
PICK.

No. 407,053.

Patented July 16, 1889.

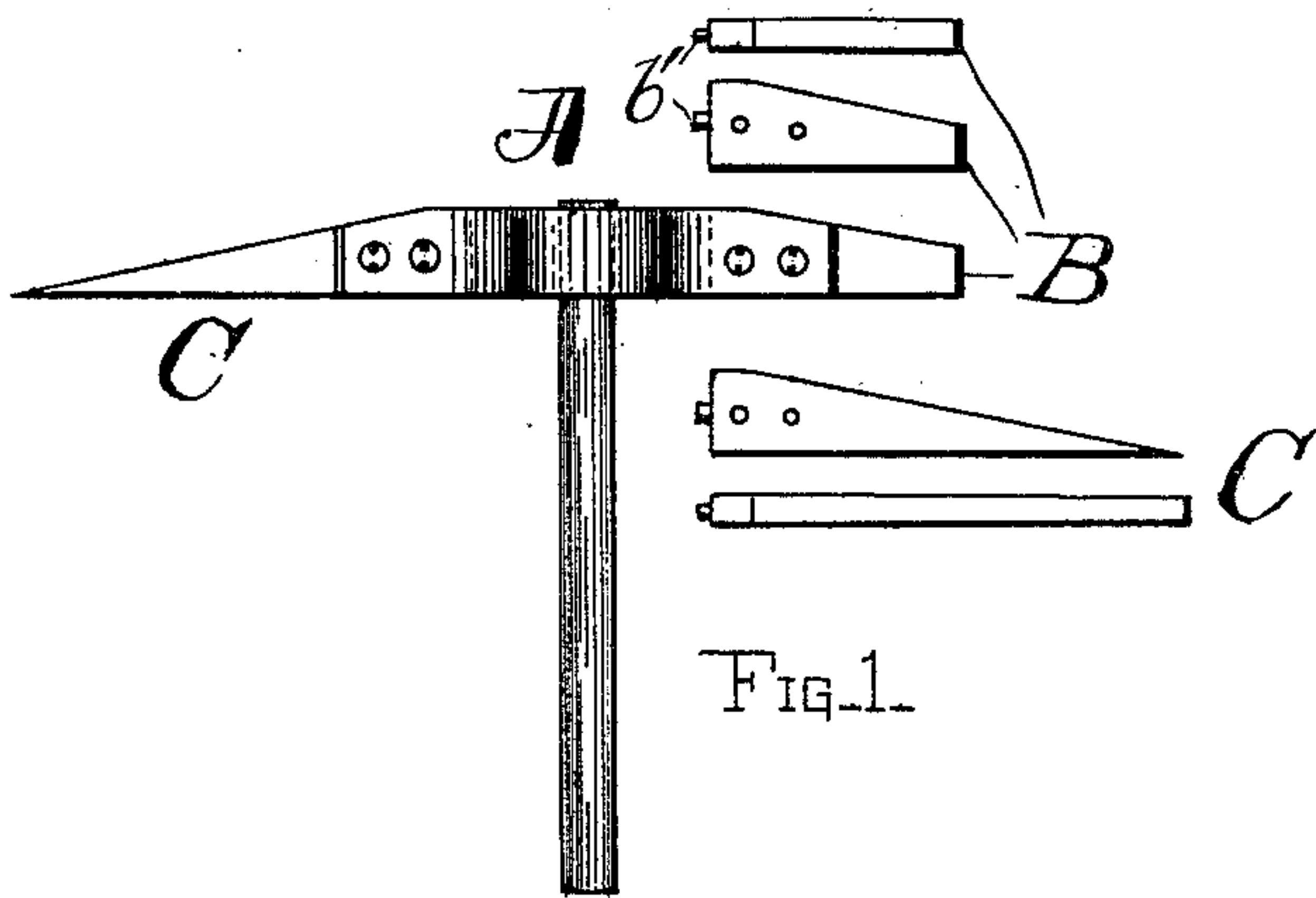


FIG. 1.

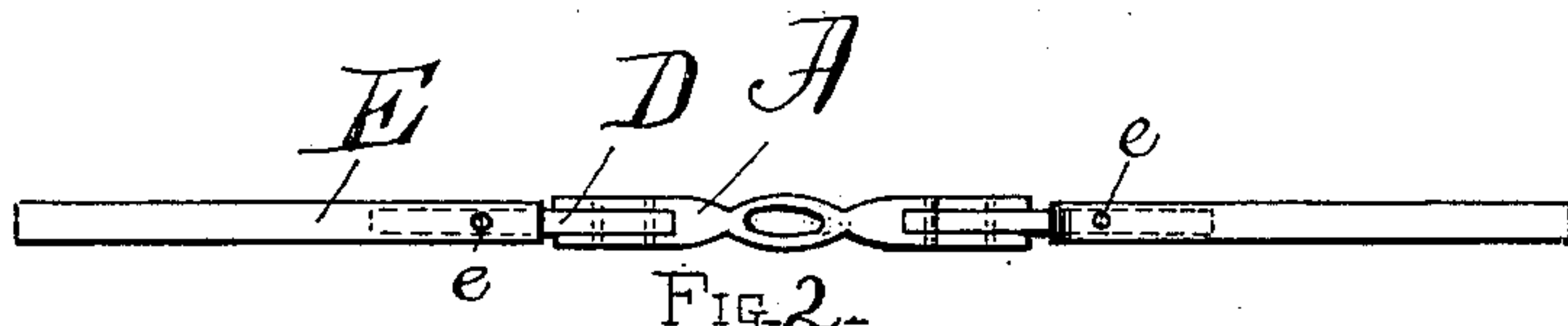


FIG. 2.

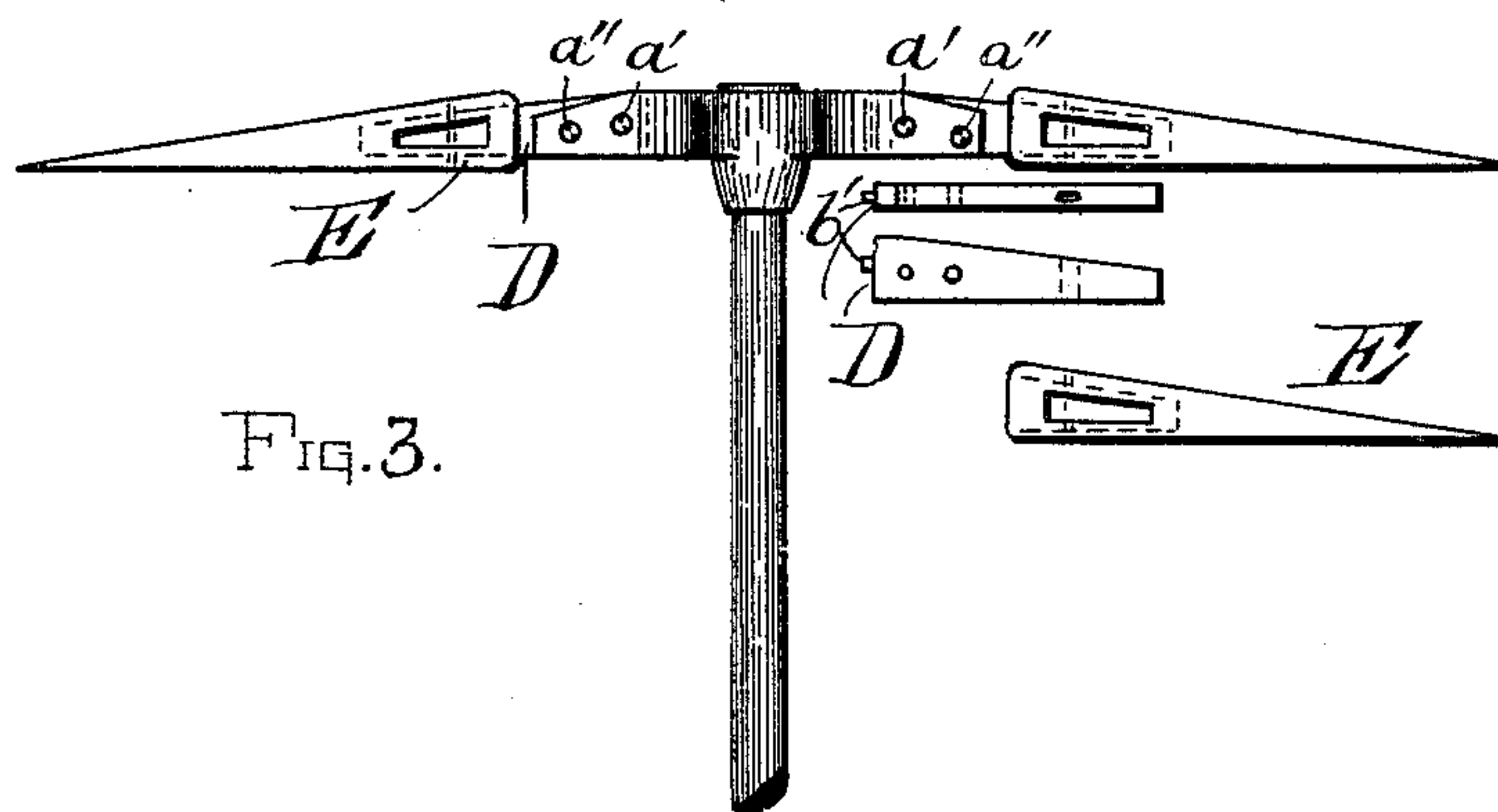


FIG. 3.

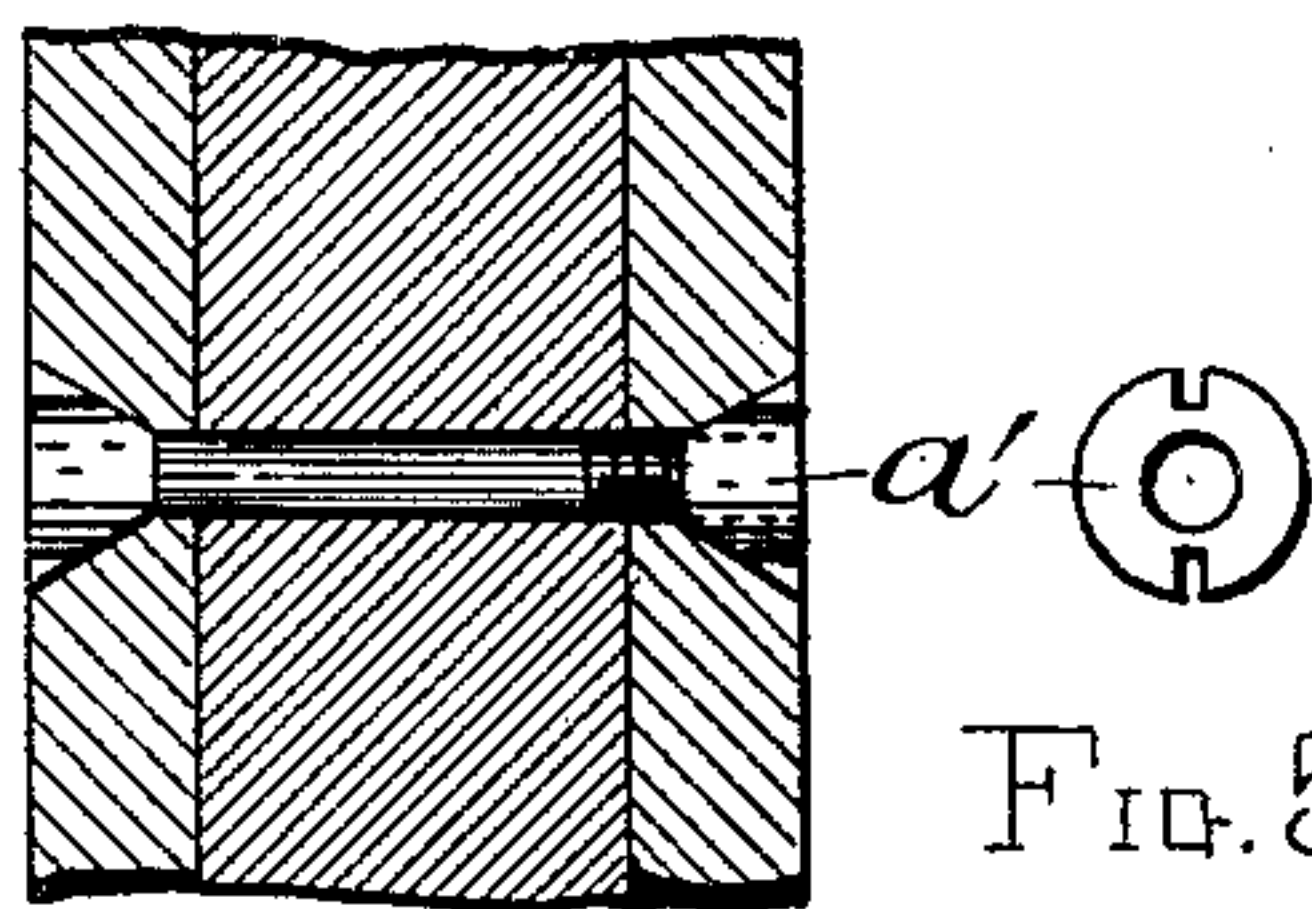


FIG. 4.

FIG. 5.



FIG. 6.

Witnesses

Luke F. Hayden  
A. J. Wood

Inventor

JOHN T. BOEN.

By his Attorney

Albert A. Wood

# UNITED STATES PATENT OFFICE.

JOHN T. BOEN, OF ATLANTA, GEORGIA.

## PICK.

SPECIFICATION forming part of Letters Patent No. 407,053, dated July 16, 1889.

Application filed March 13, 1889. Serial No. 303,159. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN T. BOEN, a citizen of the United States, and a resident of Atlanta, in the county of Fulton and State of Georgia, have invented certain new and useful Improvements in Picks; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to picks, the object being to make an implement which shall be convertible into a heavy or light pick for mining and grading and into a brick-layer's "scratch-hammer," or into a hammer such as used in paving and analogous operations, in which it is adapted to be used in channeling, breaking, and driving into place the stone or brick.

The object of the said invention is to render this class of implements capable of being manufactured at a low cost and durable and efficient in their operation, as well as convenient in their adaptability to different uses.

The invention consists, therefore, in the details hereinafter set forth.

In the accompanying drawings, Figure 1 is a side elevation of the device as adapted to use in laying brick, paving-stone, &c., the parts inserted being also shown in detail in this figure. Fig. 2 is an edge view of the device from the top in Fig. 3. Fig. 3 is a side elevation of the device, showing it adapted to heavy mining or grading, the pieces inserted to adapt it to this use being also shown. Fig. 4 is a sectional view showing the preferred form of bolt used in the device where a bolt is necessary. Fig. 5 is a face view of the nut, showing the notches in its edge for the reception of a tool adapted to turn it. Fig. 6 is a view of the bottom of the slot into which the interchangeable parts are inserted, showing the hole for the entry of the tenons on the inner ends of these parts.

In the figures, like reference-marks indicating corresponding parts in the several views, A is the head, B the part inserted for use as

a hammer, and C the part forming the peen or light pick part of the brick-layer's hammer.

D is the intermediate piece in the heavy pick, and E is the pick-point for use in heavy grading and mining.

The head A is constructed substantially as shown in Figs. 1, 2, and 3—that is, having an eye of any desired form and a recess in each end for the insertion of the parts B, C, and D, or what other parts may be inserted to adapt it to different uses. In the bottom of each of these said recesses is the hole *a*, for the insertion of the tenons *b'* on the end of the inserted part B, C, or D, which tenon is to prevent any looseness, owing to the fact that the bolts *a'* and *a''* are necessarily close together, and hence do not prevent a little looseness. This hole may, if desired, be in the form of a groove extending laterally of the recess, or the piece inserted may be grooved or recessed and the tenon or projection be in the bottom of the recess in the head A. The bolts *a'*, *a''*, and *e* have preferably the form of head shown in Figs. 4 and 5, as that admits of their being entirely below the surface.

To make a light pick, the construction would be as in Fig. 1; but instead of the hammer B there would be inserted the part C, the hammer B in one end of the head A and the part C being in the other when it is desired to make a brick-layer's or pavior's hammer of the device.

To make a heavy mining or grading pick, the construction shown in Figs. 2 and 3 is used, the details of which are as follows: The head A is of the same construction as hereinbefore described, and the intermediate pieces D are inserted in the same manner as the inserted parts hereinbefore mentioned, differing from these parts in form only where they project from the head A and enter the pick-points E, which points E have a socket in their larger ends for the introduction of the intermediate pieces D, as shown. The screw *e* secures the point on the intermediate pieces by passing through both point and intermediate piece, the hole in the intermediate piece being slightly slotted to allow the point to be forced onto the taper of the intermediate



piece and find a good bearing thereon, after which the screw *e* may be tightened and the parts held in their proper relative positions.

The inserted parts may be made of any practicable material and of any form of working face or edge, the essential feature of my invention consisting in the novel manner of inserting and holding the said inserted parts in their places and in making such parts interchangeable, the forms of these inserted parts which it is desired to make being in great number.

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

1. In a pick, a clamping-head consisting of the head A, having an eye for the insertion of

a handle and recesses in its ends having a hole in each of their bottoms for the introduction of a tenon of an inserted part, in combination with the intermediate piece D and the point E, substantially as set forth.

2. In a pick, the combination of the head A, the intermediate piece D, and the point E, and the screws *a'*, *a''*, and *e*, all combined and operating substantially as shown and described, and for the purpose specified.

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

JOHN T. BOEN.

Witnesses:

A. P. WOOD,  
N. P. WOOD.