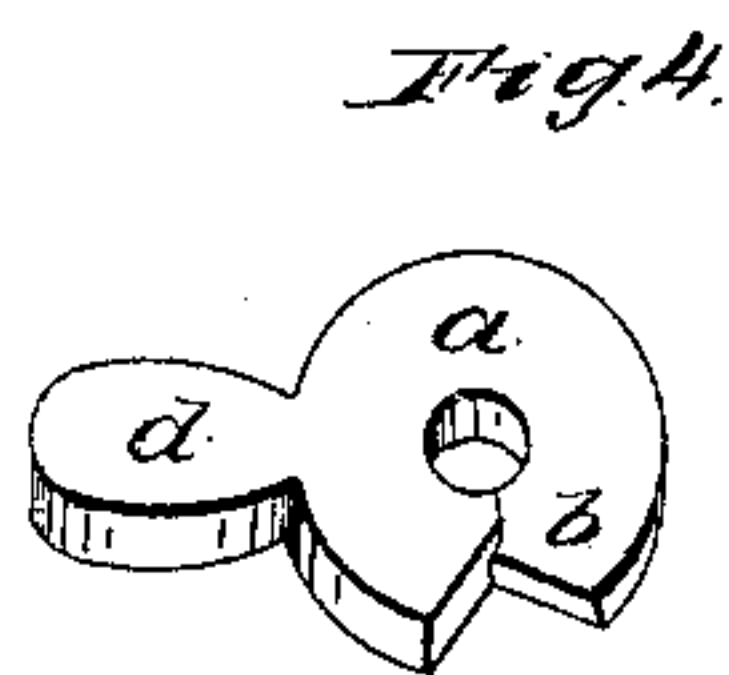
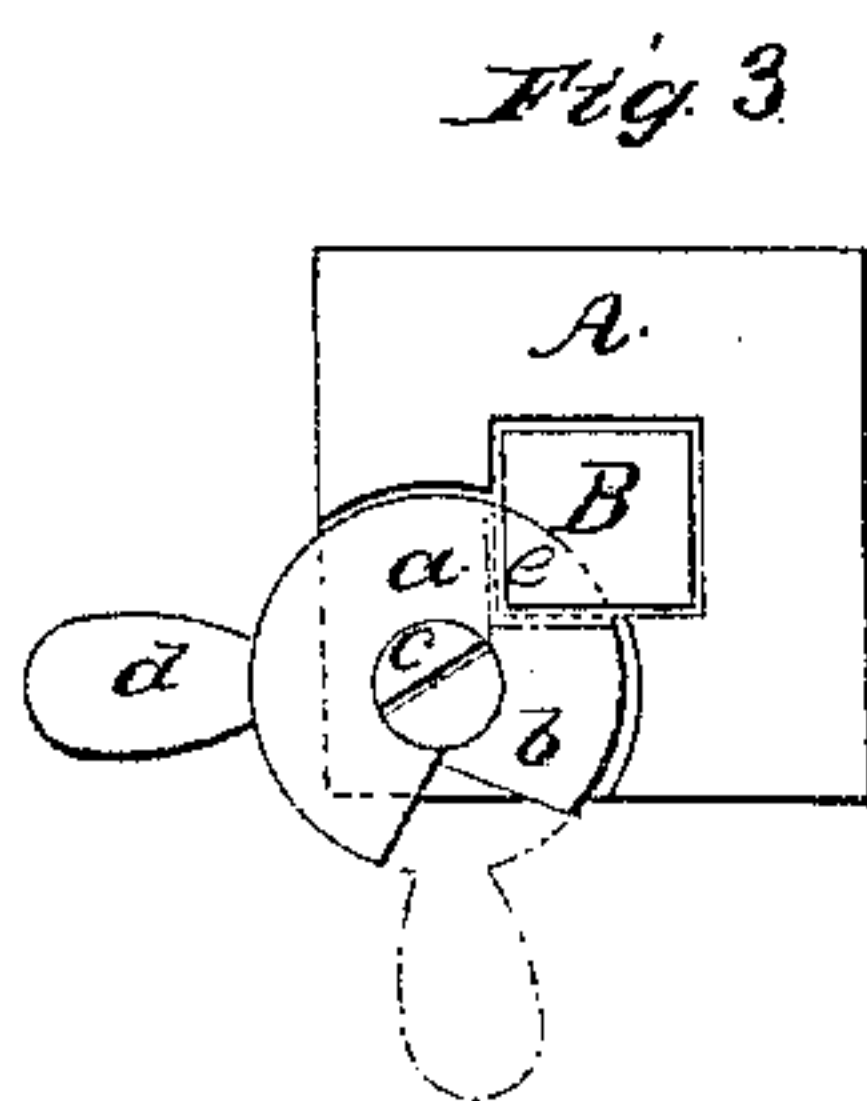
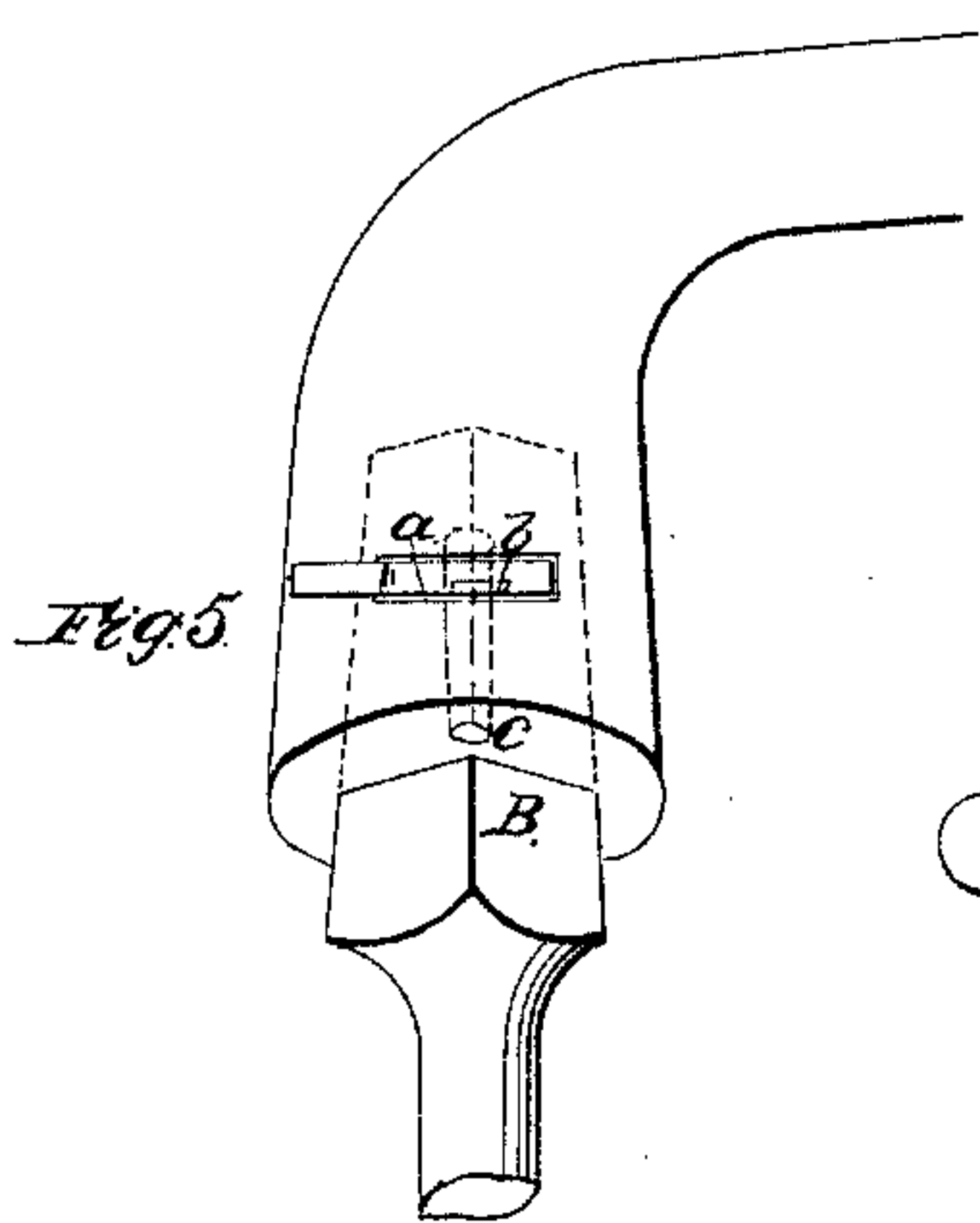
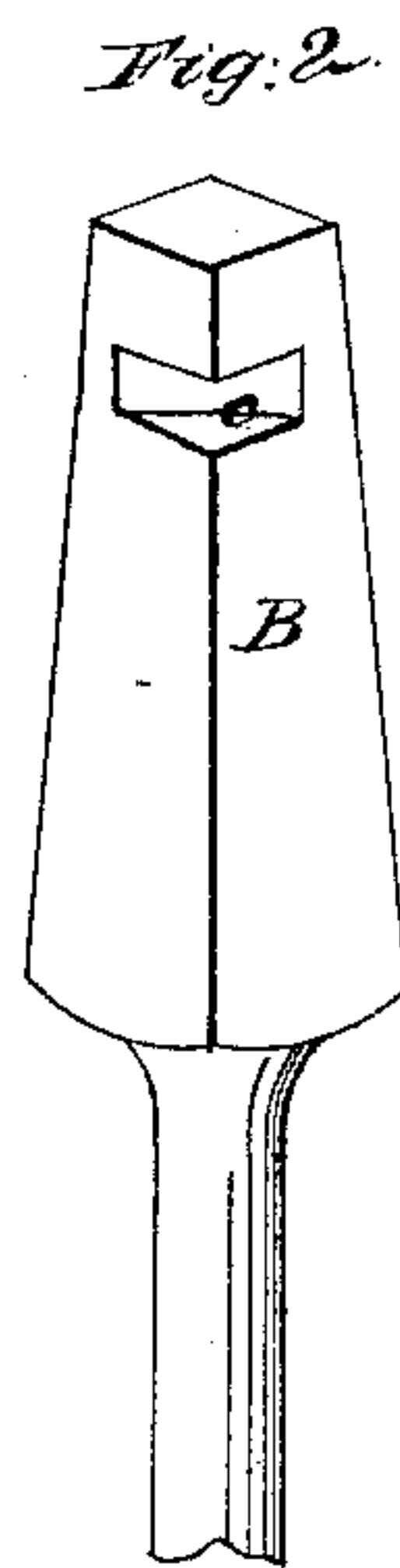
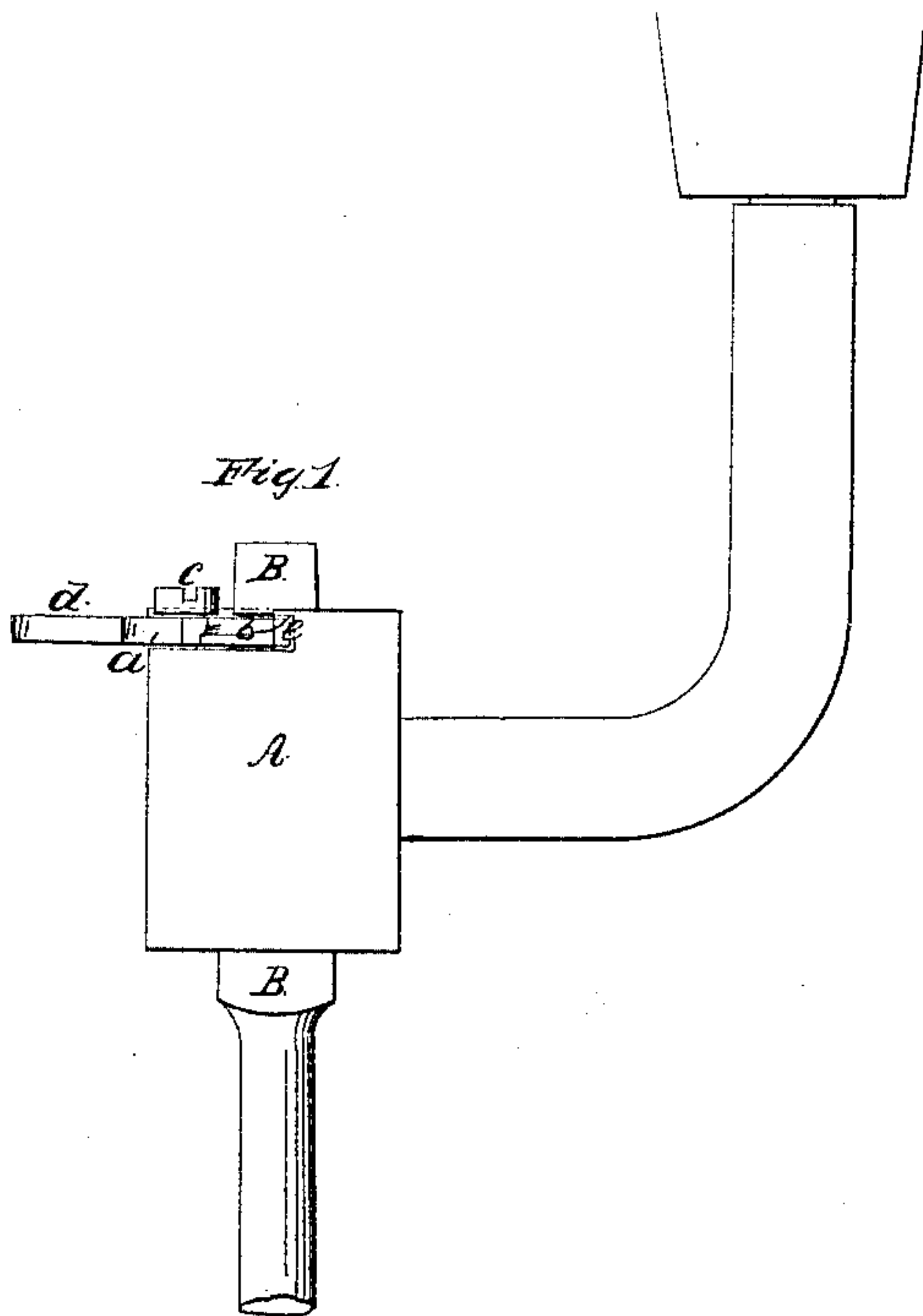


D. Kelly,
Bit Stock,
No 37,196, *Patented Dec. 16, 1862.*



Witnesses:
J. W. Coombs
R. S. Spencer

Inventor:
David Kelly
per Munn & Co
Attorneys

UNITED STATES PATENT OFFICE.

DANIEL KELLY, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO HIMSELF
AND JACOB A. SMITH, OF SAME PLACE.

IMPROVED METHOD OF SECURING BITS IN STOCKS.

Specification forming part of Letters Patent No. 37,196, dated December 16, 1862.

To all whom it may concern:

Be it known that I, DANIEL KELLY, of Grand Rapids, in the county of Kent and State of Michigan, have invented a new and Improved Device for Securing Bits in their Stocks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view showing the improved bit stock, showing a bit secured in it. Fig. 2 is a view of a bit-head adapted to the improved stock. Fig. 3 is a top view of a square bit-stock having my improvement applied to it. Fig. 4 is a perspective view of the fastening detached from the stock. Fig. 5 shows the application of my improvement to a round bit-stock.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to obtain a simple device for securing bits to their stock, which may be readily applied to an ordinary round or square stock, and which will draw the bit-head firmly into the stock and at the same time lock it securely therein, as will be hereinafter described.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A represents the bit-stock, or that portion into which the heads of the bits are secured. This stock, which may be either round or square, has the usual square tapering socket formed through it, or into its lower end, for receiving the corresponding tapering heads B of the bits, as shown in Figs. 1 and 3 of the drawings. The square stock A has a small recess formed into one corner of its upper end, and into this recess a wedge-key or notched button, *a*, is pivoted, so that a portion of this key will project over the socket, which is through the stock, as shown in Fig. 4 of the drawings. This button *a*, which secures the bit in the stock, consists of a flat disk having a notch cut into one edge, to allow the end of the bit-head to pass through the stock A'. One of the edges of the notch is beveled, so as to form a model or key, *b*, which is intended to draw the bit-head tightly into its socket. Through the center of the button *a* a hole is made, to receive a screw-pin, *c*, which screwse-

cures the button in its recess in the top of stock A, and forms a pivot, about which the button turns, as shown in Figs. 1 and 3 of the drawings. A short projection, *d*, on the button *a*, serves as a handle, which is used in turning the button to lock the bit in the stock A. The heads of bits, which are to be secured in stock A, must each have a slot, *e*, cut transversely into one of their corners, as shown in Fig. 2. This slot can be readily made with a saw, and it should be made at such a point on each bit-head that when the bit-head is introduced into the socket in stock A, the tapered edge or wedge *b* of the button *a* may be forced under the upper edge of the slot *e* in the bit-head. The wedge *b* will thus draw the bit tightly up into its socket, and as the wedge *b* thus enters the slot *e* it will form a lock, which will keep the bit securely in its place in the stock. When the handle *d* is turned backward until the button *a* is out of the slot *e*, the bit may be readily slipped out of the stock. This notched button above-described, and represented in Figs. 1, 2, and 3 of the drawings, may be readily applied to a common round stock, (represented in red lines in Fig. 5 of the drawings,) by sawing a slot transversely across the stock at a suitable point, into which the button *a* is introduced and pivoted, as described for the square stock. The bit-head is now secured into this round stock in the same manner as described for the square stock.

The button *a* may be readily stamped out of a piece of steel, and its edge *b* beveled, as described, so as to form the wedge for drawing the bit-head tightly into its stock. The button can then be applied to a common bit-stock with very little expense.

I do not claim, broadly, the invention of a horizontally-rotating button to hold the tool into the stock; but,

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

The arrangement of the notched wedge-faced pivoted button *a* with the tool-stock A and tool B, in the manner and for the purpose herein shown and described.

DANIEL KELLY.

Witnesses:

T. SINCLAIR,
WM. E. GROVE.