

(No Model.)

W. F. BAUROTH.
SHARPENER.

No. 591,028.

Patented Oct. 5, 1897.

Fig. 1.

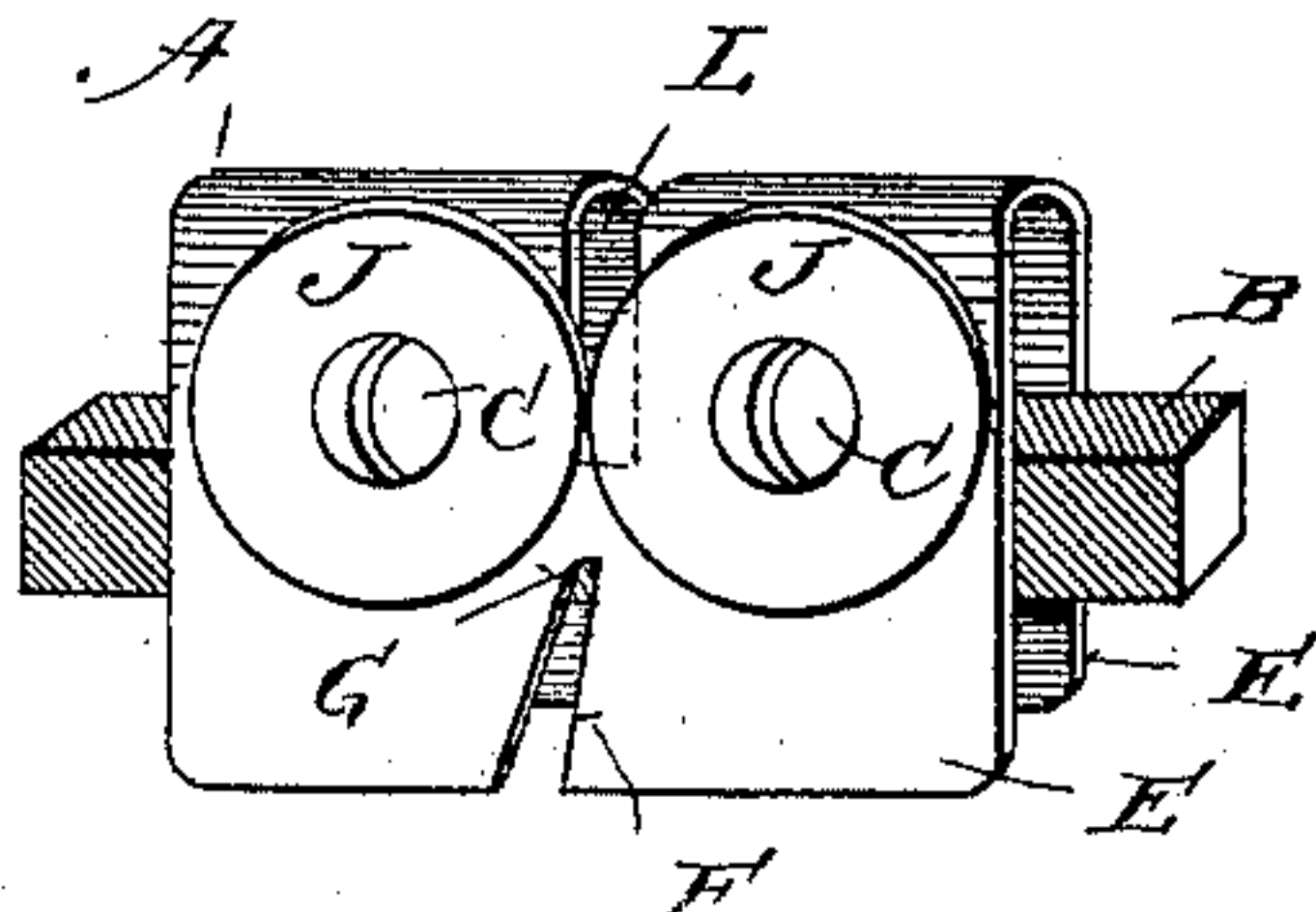


Fig. 2.

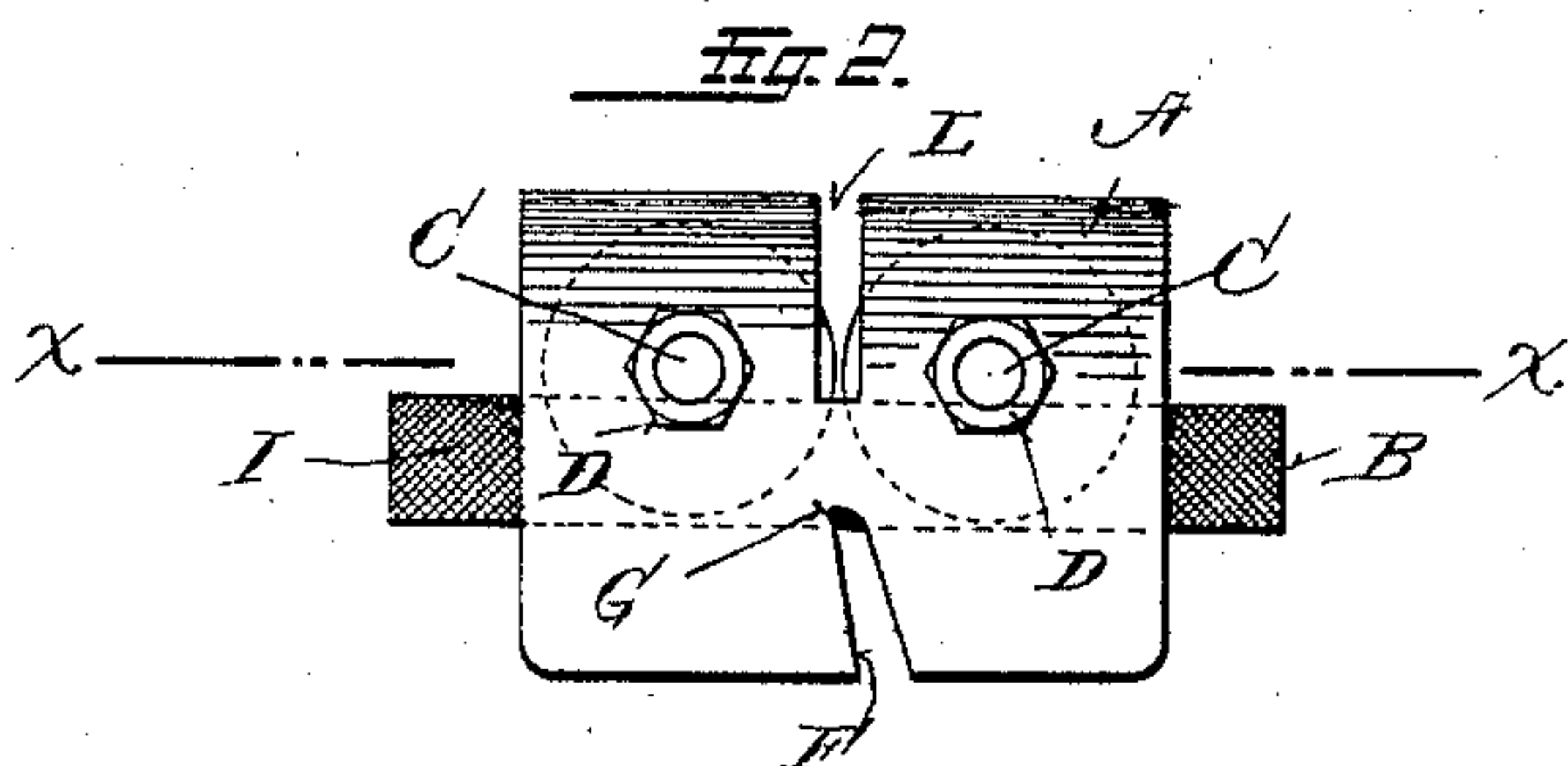


Fig. 3.

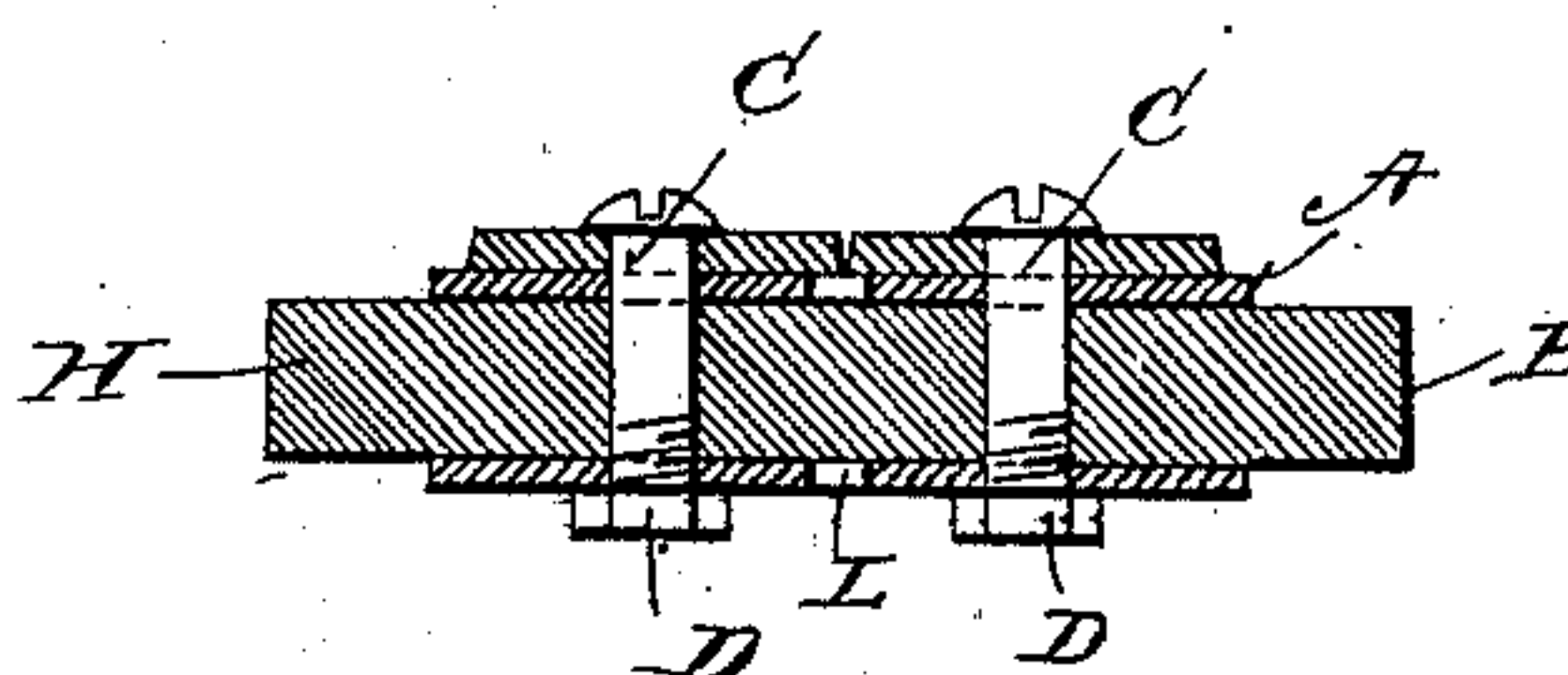


Fig. 4.

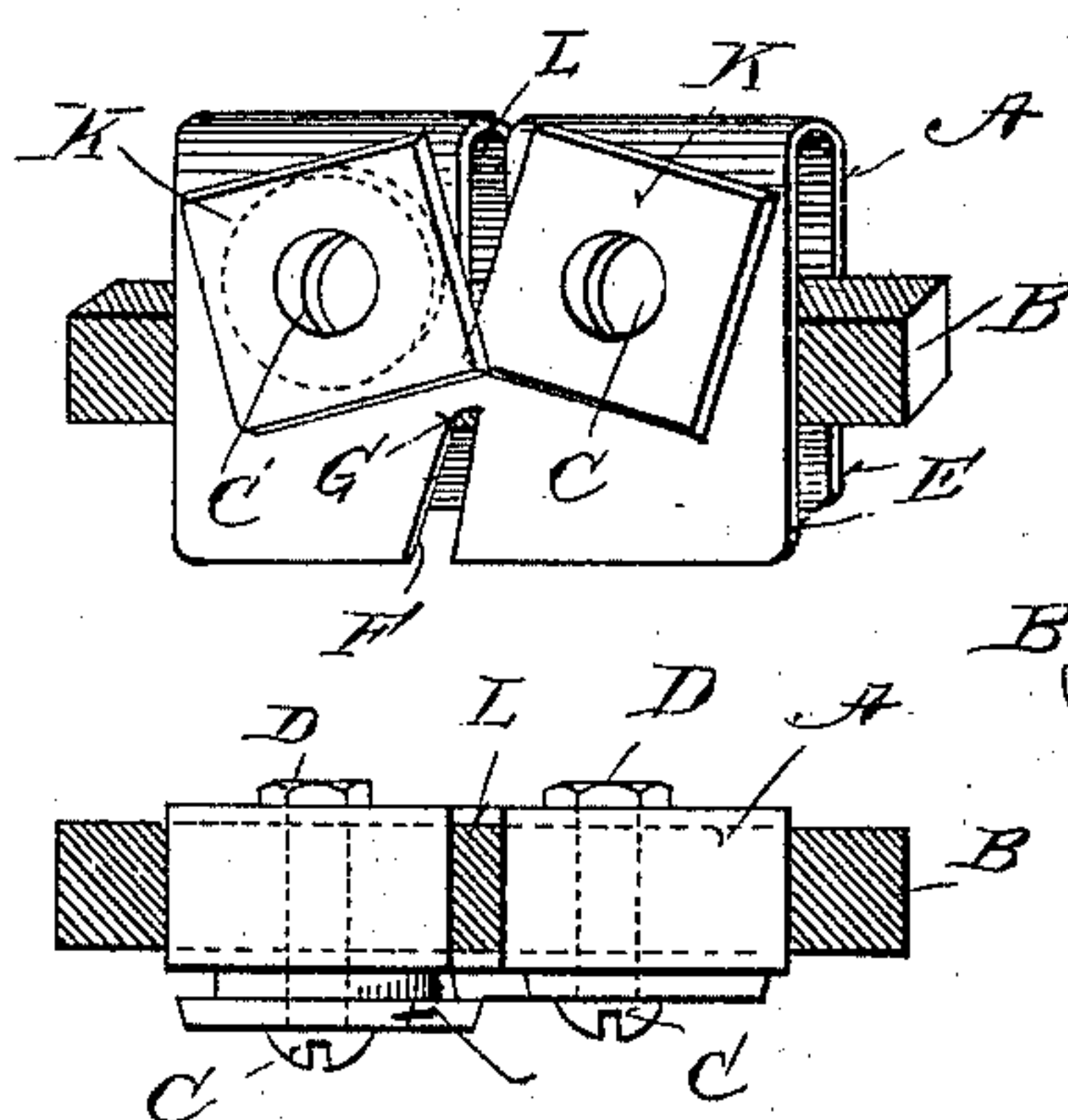
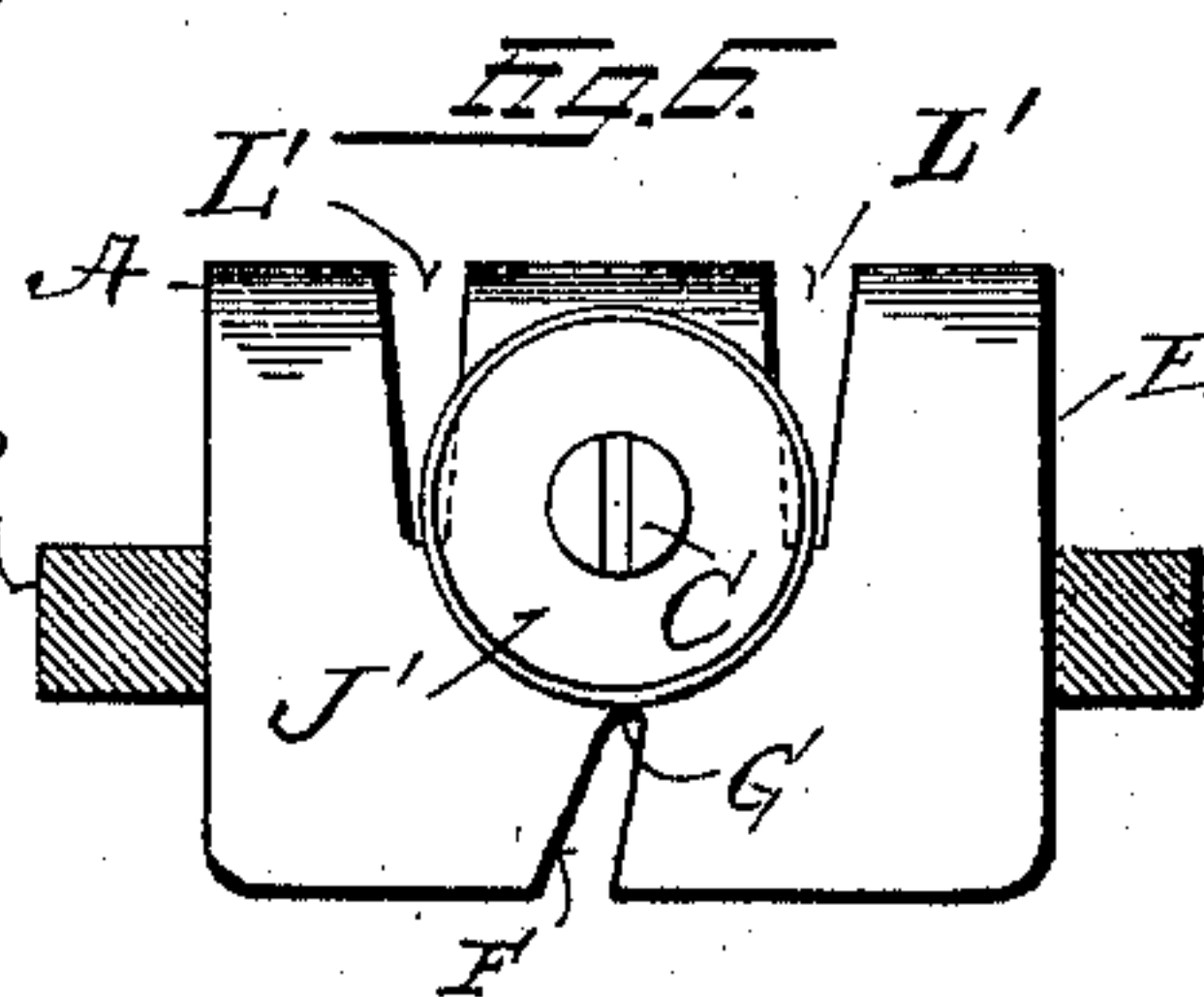


Fig. 5.



WITNESSES:

John C. Dawley,
H. M. McNair.

Fig. 5.

William F. Bauroth, INVENTOR

BY *H. A. Toulmin,*
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UNITED STATES PATENT OFFICE.

WILLIAM F. BAUROTH, OF SPRINGFIELD, OHIO.

SHARPENER.

SPECIFICATION forming part of Letters Patent No. 591,028, dated October 5, 1897.

Application filed December 26, 1896. Serial No. 616,987. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM F. BAUROTH, a citizen of the United States, residing at Springfield, in the county of Clark and State of Ohio, have invented certain new and useful Improvements in Sharpeners, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an improved article of manufacture constituting a combination sharpener for skates, scissors, and knives.

It consists, essentially, of a clamping-frame, 15 an abrasive bar in the nature of a file or whetstone clamped by said frame and adjustable therein, said frame forming a channel to guide the abrasive piece along the skate-runner, and having an inclined incision to 20 guide scissors in contact with the abrasive piece, and of a sharpening plate or plates carried by the frame and arranged opposite a slot therein whereby knives may be sharpened.

25 In the accompanying drawings, on which like reference-letters indicate corresponding parts, Figure 1 is a perspective view of my improved combination-sharpener. Fig. 2 is a side elevation thereof, looking upon the opposite side to that exhibited in Fig. 1. Fig. 30 3 is a longitudinal sectional view of the same on the line *x x* of Fig. 2. Fig. 4 is a perspective view showing a modified form of plates for sharpening knives; Fig. 5, a plan view thereof, and Fig. 6 a side elevation of a modified form.

The letter A designates the clamping-frame of my device, the same consisting of a sheet of metal, preferably steel, bent to form two 40 sides with a space between them. Within these sides is placed and fitted an abrasive piece B, consisting either of a file or of a whetstone or emery-stone, but preferably of a file, all four sides of which are dressed, either 45 of the same or varying fineness. This abrasive piece is clamped and held within the frame by means of screws or bolts C which pass therethrough and have nuts D on one end. Different sides of the abrasive piece may be 50 presented to the thing to be sharpened, and it may be adjusted lengthwise to present fresh surfaces opposite the incision where the

scissors are placed. The portions E of the frame constitute cheek-pieces, in the channel between which skate-runners are placed, with 55 the abrasive piece on the bottom of the runner. The device is then pressed down on the runner and moved back and forth, so as to sharpen it. It has been tested for such work and is very satisfactory. 60

The next feature of my device is that for sharpening scissors. For this purpose the frame is provided with an inclined incision F, through the cheek-pieces E, and extending down to the abrasive piece. This inci- 65 sion is slightly inclined and its inner end is beveled, as shown at G, to agree practically with the bevel of the scissors edge. The scissors-blade is placed in this incision and drawn back and forth against the abrasive 70 piece and thoroughly and quickly sharpened. A coarse side of the abrasive piece may first be used—as, for instance, the side H—and then a finer side may be turned to it—as, for instance, the side I—so as to make a smoother 75 finish to the edge.

The third feature of my device is the provision for sharpening knives. This consists either of one or two plates secured by means of the bolt C and either round or of other 80 outline. The pair of round plates are indicated at J and a square form is indicated at K. The opposite edges of these plates, when two are used, constitute a tapering slot into which the knife-blade is placed, with the 85 sharp edge in the narrowest part of the slot. The clamping-frame is slotted or cut out at L to permit the knife-blade to settle down against the plates. The edges of the plates are slightly beveled, as seen more clearly in 90 Figs. 3 and 5, so as to constitute edges which will more rapidly abrade the knife-blade. In the angular form of plate I prefer to overlap them slightly in forming the V-shaped slot. When one plate J' is used, as in Fig. 6, it 95 works in conjunction with one edge of either slot L', but in such case the plate is opposite the slot, and in order to get the knife into proper contact with the plate it has to enter the slot, just as is the case when two plates 100 are used, as in the other form.

Thus I have combined in one simple article a skate, a scissors, and a knife sharpener and have made the entire thing of four pieces and

two bolts, which simplicity and cheapness enable its economic manufacture and cheap sale. As a scissors-sharpener the device will last indefinitely, as the abrasive piece will be shifted lengthwise and also turned to present different faces. It also presents four faces for sharpening skates. As a knife-sharpener it is also long-lived, as the plates can be readily adjusted to present different sharpening edges.

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

1. The herein-described new article of manufacture comprising a combination-sharpener consisting of a clamping-frame an abrasive piece with a plurality of abrasive surfaces, clamped within said frame, the frame having a transverse incision leading to one surface of the abrasive piece and a transverse slot for knife-blades, and plates secured to said frame with their meeting edges opposite said slot.

2. The herein-described improved article of manufacture, the same comprising a combination-sharpener consisting of a clamping-frame having cheek-pieces, an abrasive piece held within it adjacent to the cheek-pieces, clamping screws or bolts, plates mounted thereon with sharpening edges, and the frame provided with an inclined transverse incision in the cheek-plate pieces and a transverse slot opposite the meeting edges of said plates.

3. The herein-described improved article of manufacture, the same comprising a combination-sharpener consisting of a clamping-frame A, cheek-pieces E, bolts or screws C, sharpening-plates J thereon, the frame having an inclined incision F with a beveled end G and a transverse slot L and a four-sided abrasive piece B clamped and held within the frame.

4. The herein-described improved article of manufacture comprising a skate and scissors sharpener, the same consisting of a clamping-frame, bolts or screws therethrough, and an abrasive piece with a plurality of sides held and clamped therein and forming with the sides of the frame a channel for skate-runners, the frame having an inclined transverse incision leading to one side of the abrasive piece for sharpening scissors.

5. The herein-described new article of manufacture comprising a combination-sharpener, consisting of a clamping-frame, an abrasive piece held therein, the frame having a transverse incision leading to one surface of said abrasive piece, and a slot for knife-blades, and a plate secured to said frame with its edge opposite said slot.

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

WILLIAM F. BAUROTH.

Witnesses:

OLIVER H. MILLER,
W. M. MCNAIR.