(No Model.)

P. M. THOMPSON.

KNIFE SHARPENER.

No. 547,819. Patented Oct. 15, 1895.

Fig. 1.

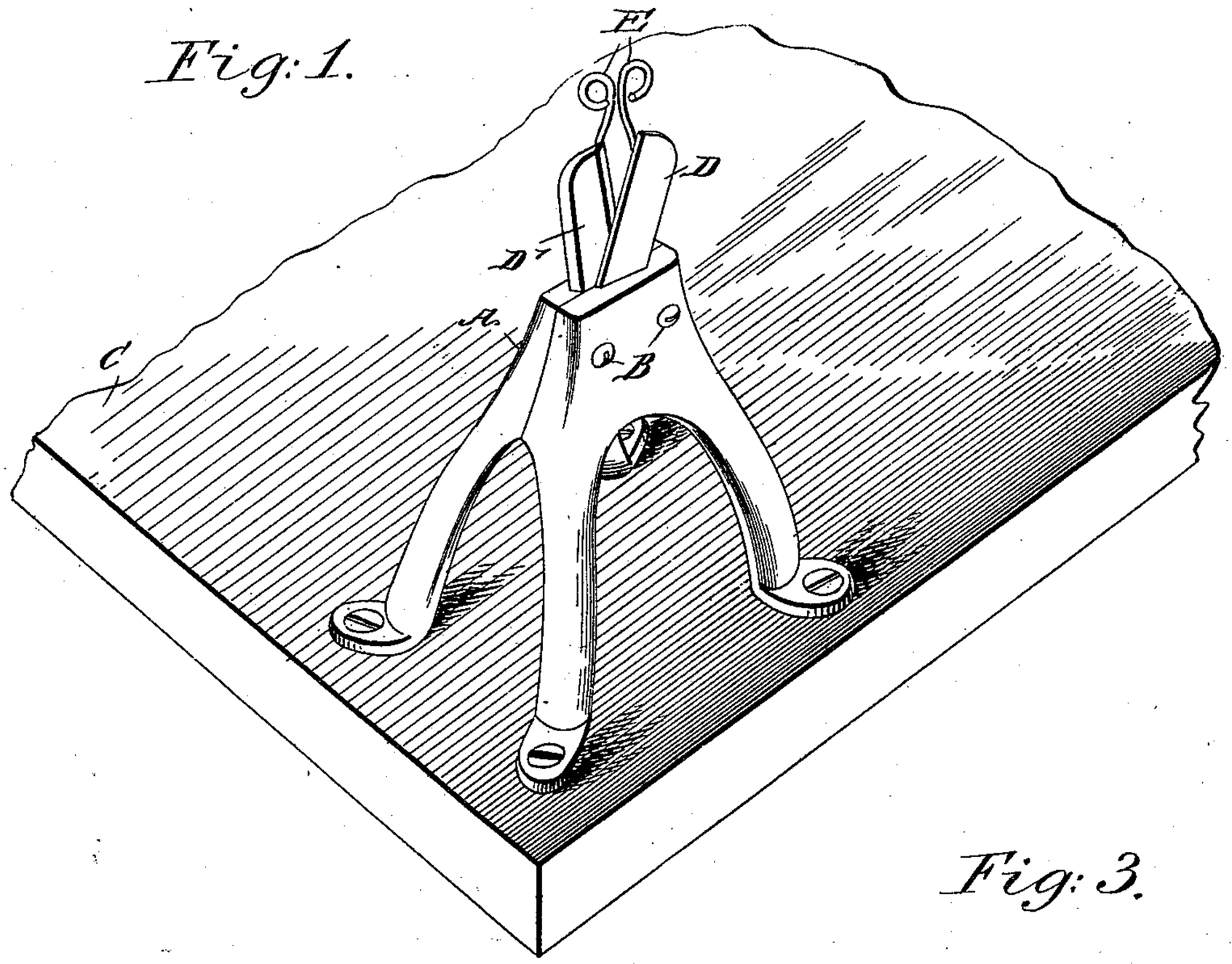


Fig. 3.

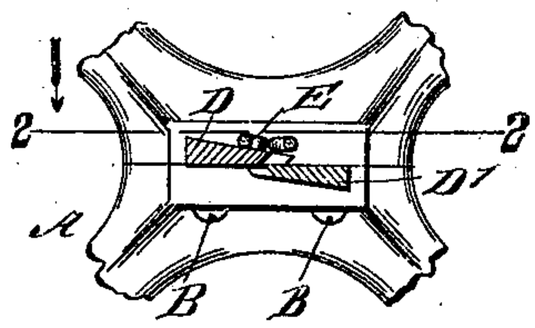
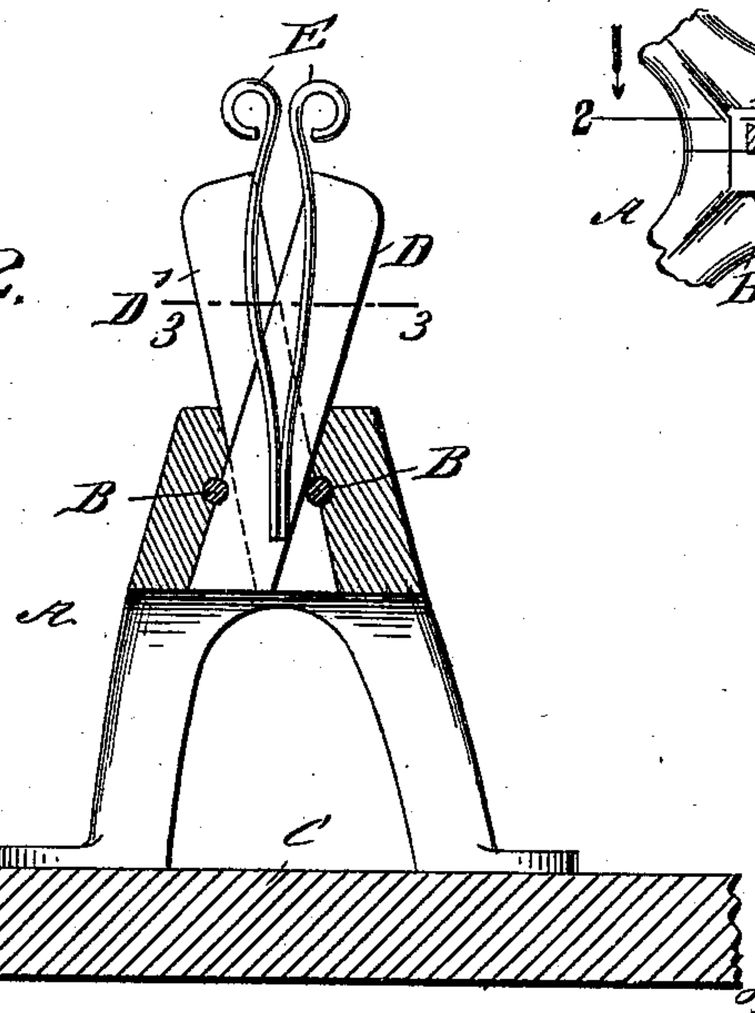


Fig. 2.



WITNESSES:

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PETER M. THOMPSON, OF ANACONDA, MONTANA.

KNIFE-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 547,819, dated October 15, 1895.

Application filed December 18, 1894. Serial No. 532,154. (No model.)

To all whom it may concern:

Be it known that I, PETER M. THOMPSON, of Anaconda, in the county of Deer Lodge and State of Montana, have invented a new and Improved Knife-Sharpener, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved knife-sharpener, which is comparatively simple and durable in construction and more especially designed to conveniently and quickly sharpen table and other knives.

The invention consists, principally, of two knife-blades crossing each other to form a crotch at their cutting-edges.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the claims.

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

Figure 1 is a perspective view of the improvement. Fig. 2 is a sectional elevation taken vertically through the sharpener on the rear sides of the blades and guide in the plane indicated by line 2 2 in Fig. 3, looking toward the front of the sharpener. Fig. 3 is a sectional plan view of the same on the line 3 3 of Fig. 2.

The improved knife-sharpener is provided with a frame or holder A, preferably made in two parts, fastened together by transverse screws B, as plainly shown in Fig. 1, the said frame parts being provided with legs for fastening the frame to a table C or other support. The frame A forms a socket for the knife-blades D and D′, standing at angles to each other, as plainly indicated in the drawings, so that the upper outer ends of the said knife-blades cross each other to form a crotch at their cutting-edges for the passage of the knife to be sharpened. By reference to Fig. 3 it will be seen that the two beveled edges of the knife-blades D and D′ stand at the front, so that when a knife, with its cutting-edge downward, is drawn through the crotch, then a sharp edge is put on the knife by coming in contact with the two crossed cutting-edges of the blades D and D′.

In order to properly guide the knife to be sharpened while drawing the knife through the crotch, I provide a holder or guide E, preferably made of spring-wire and curved outwardly to leave a passage in the front of the crotch, as plainly indicated in Fig. 2. The upper ends of the wires extend close to one another, so as to engage the sides of the knife drawn through the crotch. The extreme upper ends of the wires are preferably curved outward to permit of readily inserting the knife to be sharpened. It will be seen that the knife-blades D and D′ are securely held in position in the frame A by the bolts B engaging notches in the said knife-blades, as indicated in Fig. 2, and at the same time the said blades are fitted into recesses on the contacting-faces of the two frame parts.

By removing the screws or bolts B the knife-blades D and D′ may be readily removed for sharpening their edges. In using the device the knife to be sharpened is passed through the guide E into the crotch formed by the blades D and D′ with the knife-edge downward, and then the operator bears on the knife-handle to move the latter slightly to the right, so that the knife-blade will slightly pinch in the crotch between the edges of the blades D and D′. The operator now pulls on the handle, so as to draw the knife-blade through the crotch with its cutting-edge in contact with the cutting-edges of the knife-blades D and D′. This operation is repeated once or twice, after which the knife will have a very keen edge. A knife sharpened in this manner does not require grinding on a grindstone or other similar device.

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

1. A knife sharpener comprising a frame made in two sections, provided on their adjacent faces with seats to receive cutters, the said cutters arranged at angles to one another, and screws extending through said sections, whereby the same are secured together, said screws being arranged to bear on said cutters, whereby the same are locked in place, substantially as described.

2. A knife sharpener comprising a frame made in two sections, provided each with two perforated supporting legs, the said sections

having on their adjacent faces seats to receive cutters, the said cutters arranged at angles to each other, and screws extending through the sections, whereby the same are secured together, said screws being arranged to bear on said cutters, whereby the same are locked in place, substantially as described.

3. A knife sharpener, comprising a frame made in two sections, provided on adjacent faces with seats, cutters arranged in said seats at angles to each other and provided with recesses, and screws passing through the sections, whereby the same are secured together, said screws engaging the recesses in the cutters, whereby the same are locked in place, substantially as described.

PETER M. THOMPSON.

Witnesses:
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