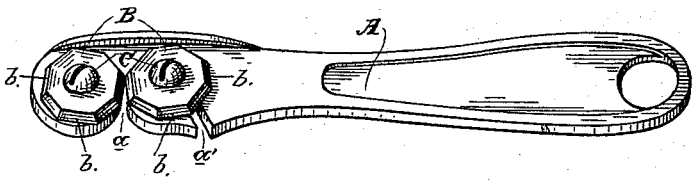
(No Model.)

J. S. BLOOD.

KNIFE AND SHEARS SHARPENER.

No. 455,917. Patented July 14, 1891.



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UNITED STATES PATENT OFFICE.

JOEL SEVERANCE BLOOD, OF NAPA, CALIFORNIA.

KNIFE AND SHEARS SHARPENER.

SPECIFICATION forming part of Letters Patent No. 455,917, dated July 14, 1891.

Application filed March 9, 1891. Serial No. 384,332. (No model.)

To all whom it may concern:

Be it known that I, JOEL SEVERANCE BLOOD, a citizen of the United States, residing at Napa, Napa county, State of California, have invented an Improvement in Knife and Shears Sharpeners; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to that class of sharpeners in which opposing polygonal steel plates are mounted upon a suitable handle, the blade of the instrument to be sharpened being drawn between the opposing edges of the plates.

My invention consists in the novel construction and arrangement of parts hereinafter fully described, and specifically pointed out in the claims.

The object of my invention is to provide a simple, cheap, and effective sharpener for both knives and shears.

Referring to the accompanying drawing for a more complete explanation of my invention, the figure is a perspective view of my sharpener.

A is a handle or stock. B are the opposing steel plates. These are secured upon one end of the handle by screws or bolts C. By loosening and freeing these bolts the plates may be turned to vary the angle of their adjacent edges to present other edges, and they may also be turned upside down to present a fresh set of edges. These plates are polygonal (here shown as octagonal) and their edges *b* are beveled. In the handle or stock, directly under the adjacent sides of the plates, is made a deep slot *a*, which permits the knife to be introduced between the opposing plates. In the stock or handle is also made another slot *a'*, which intersects the plane of one of the inclined edges *b* of one of the plates and forms an acute angle therewith. To sharpen a knife, the cutting-edge of the blade is drawn between the adjacent inclined edges of the two plates, which by the position of said plates converge to a point of contact. This convergence provides for the reduction of both sides of the blade; but to sharpen an instrument which has one straight and one beveled side—such as shears—there must be a correspondingly-shaped place in which to insert its blade. This I have in the slot *a'*, in connection with the inclined edge of the plate which it intersects. The angle here formed is made by the straight wall of the slot and the inclined edge of the plate. Therefore to sharpen shears the blade is introduced into the slot with its straight side against the wall of the slot and its beveled side against the edge of the plate. Then by pressing it lightly into the acute angle and drawing it out a few times the steel plate will reduce the beveled edge, while the slot will keep the other true and flat. This angle can be varied to suit different blades by turning the plate, and the angle between the two plates can be similarly varied to suit different thicknesses of knives. This shape of plates gives sixteen positions to sharpen knives by the turning of the plates and by their reversal.

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

1. In a sharpener, the combination of a plate and a handle or stock on which it is secured, said handle or stock having a slot *a'*, which intersects the plane of one of the edges of the plate and forms an angle therewith, substantially as herein described.

2. In a sharpener, the combination of a plate axially movable and a handle or stock on which it is mounted, said handle or stock having a slot *a'*, which intersects the plane of one of the edges of the plate and forms an angle therewith adapted to be varied by the axial movement of the plate, substantially as herein described.

3. A knife and shears sharpener consisting of the opposing axially-movable plates and the stock or handle on which they are mounted, said stock or handle having the slot *a* under the adjacent sides of the plates, and the slot *a'* intersecting the plane of one of the edges of one of the plates and forming an angle therewith adapted to be varied by the movement of the plate, substantially as herein described.

In witness whereof I have hereunto set my hand.

JOEL SEVERANCE BLOOD.

Witnesses:

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