No. 709,648. Patented Sept. 23, 1902.

K. ROSSLER.

SHEARS SHARPENER.

(Application filed Jan. 14, 1901.)

(No Model.)

Fig. 1.

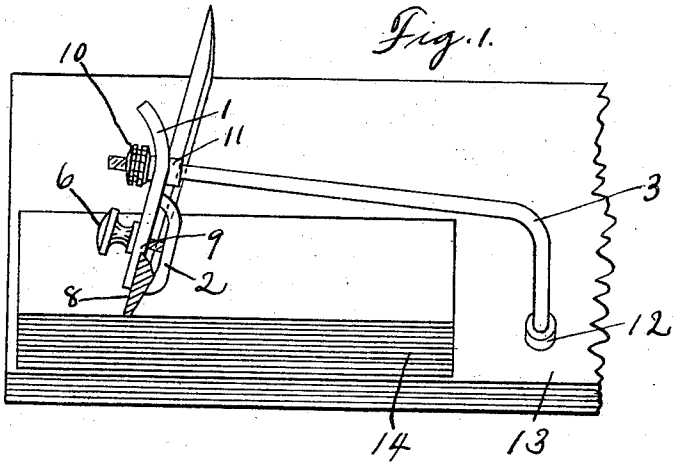


Fig. 2

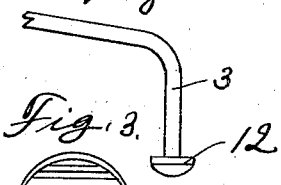


Fig. 3.

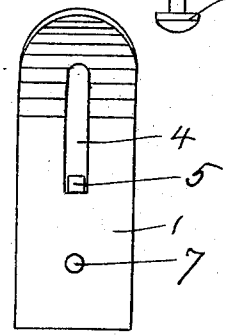


Fig. 5

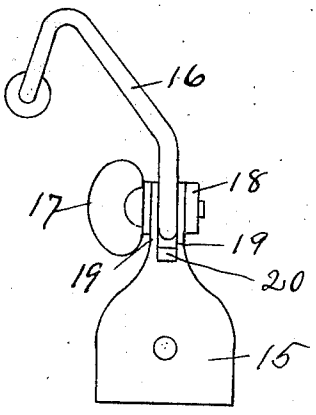


Fig. 4

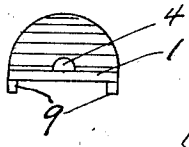
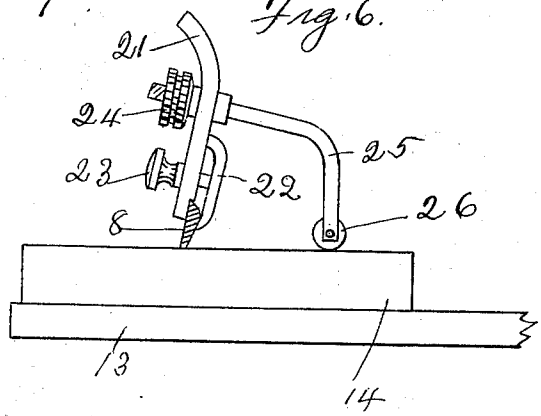


Fig. 6.



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KONRAD ROSSLER, OF FORT WORTH, TEXAS.

SHEARS-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 709,648, dated September 23, 1902.

Application filed January 14, 1901. Serial No. 43,123. (No model.)

To all whom it may concern:

Be it known that I, KONRAD ROSSLER, a citizen of the United States, residing at Fort Worth, Texas, have invented a new and Improved Shears-Sharpener, of which the following is a specification.

My invention relates to devices for sharpening shears, and more particularly to a clamp for grasping and holding a blade of a pair of shears or scissors for applying the blade to a hone; and the object is to produce a device for sharpening shears or scissors or other objects and which device can be manufactured at small cost and put up in a small package and by which the most satisfactory results may be accomplished.

Other objects and advantages will be fully understood from the following description and claims.

Reference is had to the accompanying drawings, which form a part of this specification and of this application.

Figure 1 is a perspective view of the sharpener. Fig. 2 is a broken side elevation of the guide and rest. Fig. 3 is a plan view of the body, showing the tongue of the lower jaw or clamp in the slot in the body. Fig. 4 is an end view of the body, showing the shoulders against which the blade rests. Fig. 5 is a perspective view of a sharpener, showing a variation in the manner of attaching the guide to the body. Fig. 6 is a side elevation of the sharpener, showing a variation in the construction of the guide.

Similar characters of reference are used to indicate the same parts throughout the several views.

This invention consists of the body 1, a jaw or clamp 2, a guide 3, and means for attaching these parts together in proper position for holding a blade of a pair of shears. The body is curved toward the upper part thereof and has a slot 4 therein. The jaw 2 for holding the blade against the body has a tongue 5, which rests in the slot 4 and is held in position by the thumb-screw 6, which operates through the hole 7 in the body. The blade (a section 8 of a blade being shown) rests against shoulders 9 of the body. The body is preferably made of metal and the shoulders are made integral with the body, which may be cast or made of stamped metal. In case the body is made of stamped metal the edges of the metal are to be turned or bent at right angles to the body to form the shoulders 9. The edges so bent would act as beads on the edge to strengthen the body. The guide 3 is attached to the body by passing it through the body and securing the same by a milled nut 10, the guide having a collar 11 for resting against the body and to prevent the guide from passing too far through the body. The guide has a button 12, rounded on the under side, so that it will move freely over a smooth surface of a board or table 13 as the blade is applied to the hone or other sharpening-surface 14. If the blade must have the bevel almost flat, the guide is set in the lower part of the slot 4. The angle which the bevel may make in this position with the flat edge of the blade will be very large. Barbers want this angle very small, so that the blade will have what is known as a "keen" edge. This angle is made smaller by moving the guide farther up in the slot. The higher up in the slot 4 the guide 3 is placed the smaller will be the angle which the bevel will make with the flat surface of the blade and the keener will be the edge of the blade. The blade is placed in position and tightened and held there by the screw 6. The hone 14 may be placed on a table or board with a smooth surface. The device is held in the hand, which moves back and forth the hone, so that the blade will rub against the hone, the guide moving on the smooth surface to maintain a constant bevel on the blade.

The variation shown in Fig. 5 shows a body 15, which has a different shape near the top part thereof, and a guide 16, attached to the body by means of a thumb-bolt 17, which is provided with a nut 18. The body 15 has two ears 19. The other attachments are like those of Fig. 1. The tongue 20 of the jaw or clamp rests between the ears 19. The guide and the body can be set at any desired angle by loosening the bolt 17 and then setting these parts at the desired angle and then tightening the bolt.

A variation of the guide is shown in Fig. 6. The parts shown in this figure are the same in construction as the corresponding parts shown in Fig. 1. The body 21, the jaw or clamp 22, thumb-screw 23, and nut 24 are the

same as those parts in Fig. 1. The guide 25 is shorter than that shown in Fig. 1 and is provided with an antifriction-roller 26. The object of this construction is to allow the guide to move on the surface of the hone, the antifriction-roller being used because a button would be ground away by the hone 14, as the blade 8 moves on the hone.

This sharpener is intended especially for barbers and for the use of those who sharpen surgeons' shears and for other fine work.

Other variations than those shown may be made without departing from this invention.

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

1. A sharpener for shears comprising a curved body and a jaw adapted to engage a blade and a guide detachably secured to said body and adapted to hold said body in such position that a predetermined bevel will be given to said blade, said guide being attachable at different points of said body whereby the curvature of said body determines the bevel to be given to the blade.

2. A sharpener for shears comprising a body and a jaw adapted to engage a blade, and a guide detachably secured to said body and adapted to hold said body at any desired angle for giving a predetermined bevel to the blade, said guide having a button whereby said guide is adapted to slide on even surfaces.

3. A sharpener for shears comprising a body and a jaw adapted to engage a blade and a guide adapted to hold said body at a constant angle, said body having a slot therein and being curved and being provided with means for securing said guide in said slot at various adjustments whereby any desired bevel may be given to the blade.

4. A sharpener for shears comprising a body and a jaw adapted to engage a blade, a thumb-bolt for securing said jaw to said body and on the blade, said body having shoulders for holding the blade in place and a slot therein, said jaw having a tongue resting in said slot, and a guide for said body.

In testimony whereof I set my hand, in the presence of two witnesses, this 21st day of December, 1900.

KONRAD ROSSLER.

Witnesses:
J. M. MOTHERSHEAD,
A. L. JACKSON.