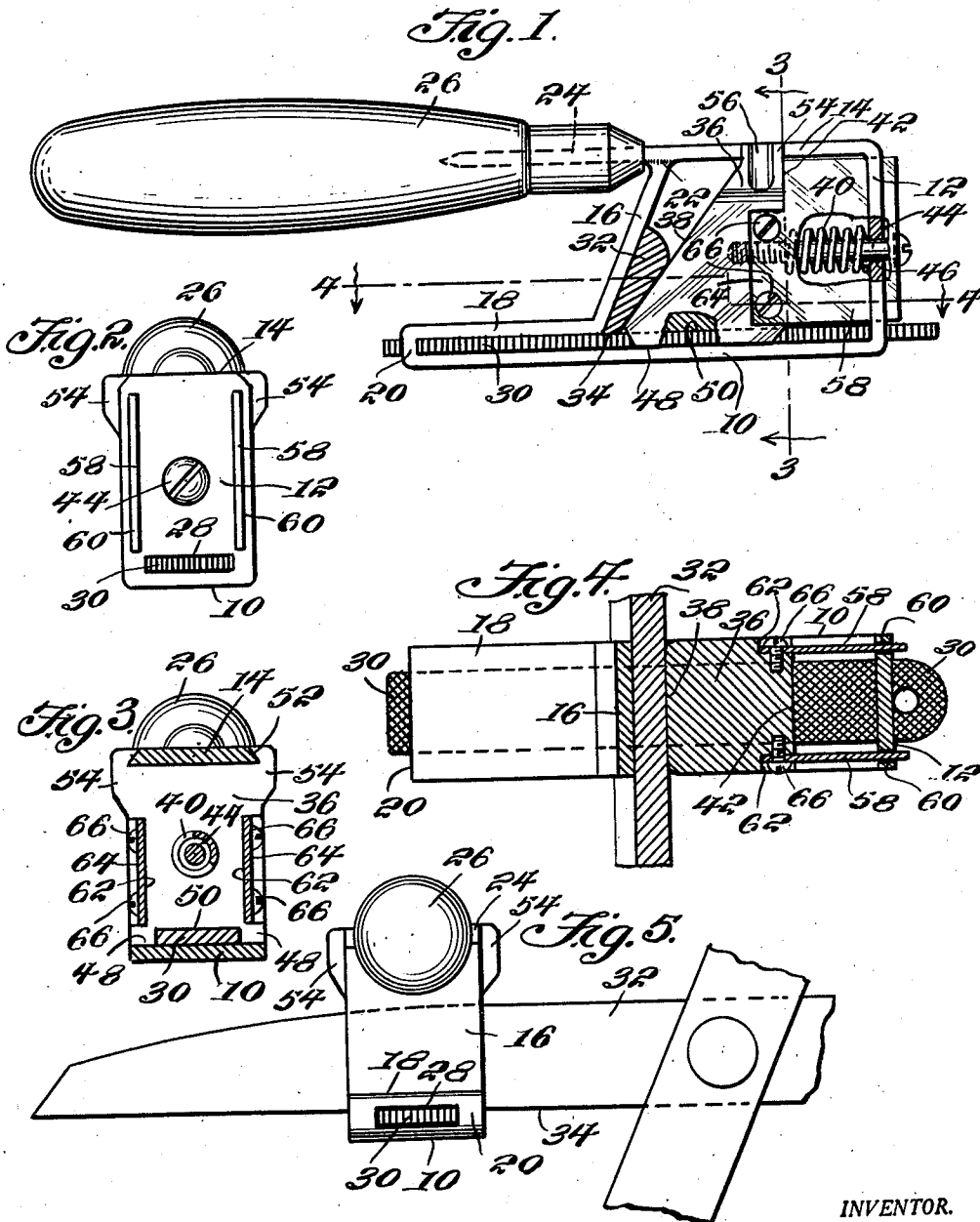


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SCISSORS SHARPENER  
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## UNITED STATES PATENT OFFICE

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## SCISSORS SHARPENER

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7 Claims. (Cl. 76-82.2)

Our invention relates to edge tools, and has among its objects and advantages the provision of an improved scissors sharpener.

In the accompanying drawing:

Figure 1 is a side elevational view of my invention;

Figure 2 is an end view;

Figure 3 is a sectional view along the line 3-3 of Figure 1;

Figure 4 is a sectional view along the line 4-4 of Figure 1; and

Figure 5 is an end view illustrating a scissors blade in position in the sharpener.

In the embodiment selected for illustration, we make use of a metallic strap bent to provide a frame comprising a base 10, an end wall 12 and a top wall 14. The top wall 14 is arranged in parallelism with the base 10 and is interconnected therewith through the medium of a diagonal wall 16, a wall 18 paralleling the base 10, and a narrow end wall 20. One end of the strap is welded at 22 to the top wall 14, which wall is extended to provide a prong 24 which serves as a mount for a handle 26.

Axially aligned slots 28 are provided in the respective end walls 12 and 20 for the reception of a file 30, with the slots so located as to bring the file to rest on the base 10. Figure 1 illustrates a scissors blade 32 in its sharpening position, with the edge 34 to be sharpened lying on the file 30 and held at the proper angle by the wall 16, the latter being preferably arranged at an angle of seventy degrees to the base 10. Means for pressing the blade 32 against the wall 16 to support the blade at the desired angle comprises a pressure block 36 having a blade-engaging face 38 arranged preferably at an angle of fifty degrees to the base 10.

A compression spring 40 is interposed between the end face 42 of the block 36 and the wall 12. This spring is held in place by a bolt 44 threaded into the block and extending loosely through an opening 46 in the end wall 12. The bottom face 48 of the block 36 rests on the base 10, and the block is provided with a groove 50 for loosely receiving the file 30. In Figure 3, the wall 14 is shaped in the nature of a dovetail in cross section for loose reception in a correspondingly shaped groove 52.

Projections 54 are provided on the block 36, which projections are grooved, as at 56 in Figure 1, to facilitate a convenient grasp thereon. In operation, the base 10 may be placed on a table and supported in a stationary manner by grasping the handle 26 in one hand and manipulating

the scissors with the other. The projections 54 are arranged sufficiently close to the handle 26 to be accessible by the thumb and forefinger of the hand grasping the handle, as when shifting the block to accommodate placement of the blade.

Two plates 58 are attached to the block 36 and extend loosely through slots 60 in the end wall 12. These plates provide enclosures for the spring 40, in addition to restraining the block from lateral displacement. The sides of the block 36 are recessed at 62 for receiving the extensions 64 so as to bring the plates within the side limits of the end wall. Screws 66 secure the plates to the block.

While the device may be manually supported in a fixed position, the extension provided by the wall 18 permits a clamp to be applied thereto if it is desired to fixedly secure the device in that manner. The file 30 is removable and may be shifted from time to time to distribute wear thereon.

Without further elaboration, the foregoing will so fully illustrate my invention, that others may, by applying current knowledge, readily adapt the same for use under various conditions of service.

I claim:

1. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a spring-pressed body slidably guided by said base and said top wall and arranged for pressing the blade against said angular wall, said top wall having an extension in the nature of a prong, a handle attached to said prong, one of said end walls being provided with two slots, and plates secured to said body and slidably extending through said slots.

2. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, and a wall in said

frame paralleling the base and acting with the latter to provide a clamp extension.

3. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, a wall in said frame paralleling the base and acting with the latter to provide a clamp extension, and a bolt threaded into said body and slidably guided by one of said end walls and extending through said spring to restrain the latter from lateral displacement.

4. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, a wall in said frame paralleling the base and acting with the latter to provide a clamp extension, a bolt threaded into said body and slidably guided by one of said end walls and extending through said spring to restrain the latter from lateral displacement, said end walls being provided with slots, and plates secured to said body and slidably receivable in said slots to additionally guide the body and mask said spring.

5. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, a wall in said frame paralleling the base and acting with the latter to provide a clamp extension, a bolt threaded into said body and slidably guided by one of said end walls and extending through said spring to restrain the latter from

lateral displacement, said end walls being provided with slots, plates secured to said body and slidably receivable in said slots to additionally guide the body and mask said spring, said frame having its top wall extended in the nature of a prong, and a handle secured to the prong.

6. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, a wall in said frame paralleling the base and acting with the latter to provide a clamp extension, a bolt threaded into said body and slidably guided by one of said end walls and extending through said spring to restrain the latter from lateral displacement, said end walls being provided with slots, plates secured to said body and slidably receivable in said slots to additionally guide the body and mask said spring, said frame having its top wall extended in the nature of a prong, a handle secured to the prong, and recessed grip formations on said body adjacent said handle.

7. A scissors sharpener comprising a frame having a base, two end walls and a top wall, the end walls being each provided with an opening, a file extendible through said openings and lying on said base, said frame having an angular wall for guiding a blade of the scissors transversely of said file at an obtuse angle thereto, a body slidably guided in said frame and arranged for supportingly pressing the blade against said angular wall, a spring interposed between said body and one of said end walls, said top wall having a cross sectional contour in the nature of a dovetail, said body being provided with a dovetail groove slidably receiving the top wall, a wall in said frame paralleling the base and acting with the latter to provide a clamp extension, a bolt threaded into said body and slidably guided by one of said end walls and extending through said spring to restrain the latter from lateral displacement, said end walls being provided with slots, plates secured to said body and slidably receivable in said slots to additionally guide the body and mask said spring, said frame having its top wall extended in the nature of a prong, a handle secured to the prong, and recessed grip formations on said body adjacent said handle, said angular wall being arranged at an angle of substantially seventy degrees to said file and said body having a blade-engaging face arranged substantially at an angle of fifty degrees to the file.

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