March 6, 1951 V. TRAPANI ET AL 2,544,193

SCISSORS SHARPENER

Filed Sept. 13, 1949

Fig. 1.

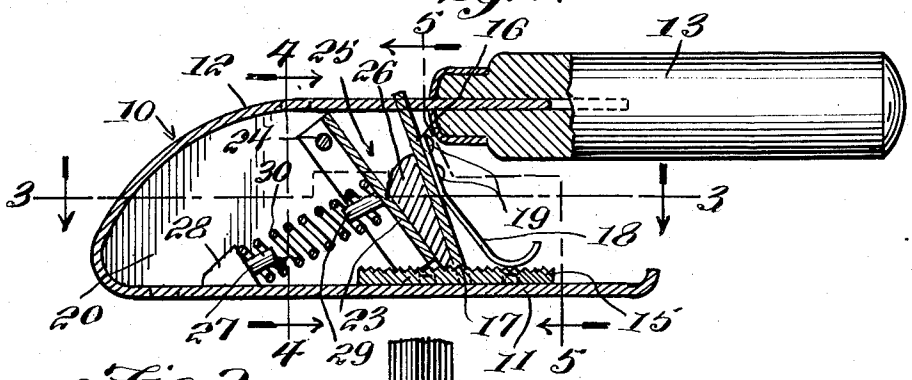


Fig. 2.

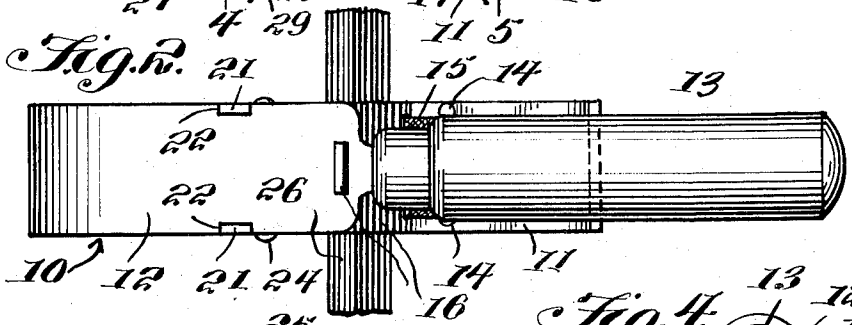


Fig. 3.

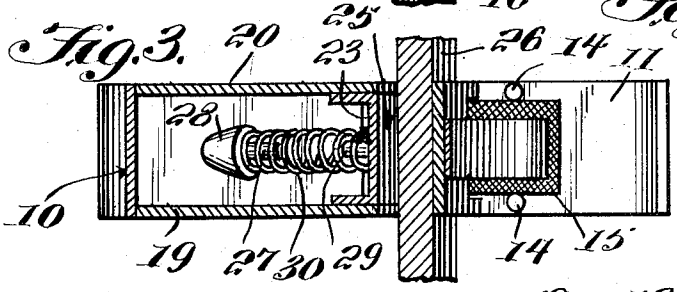


Fig. 4.

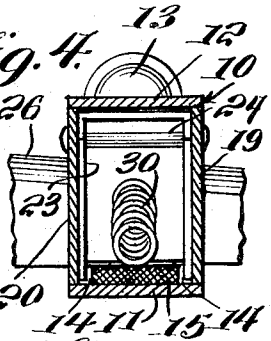


Fig. 5.

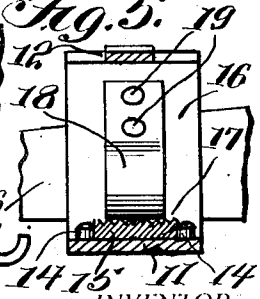


Fig. 6.

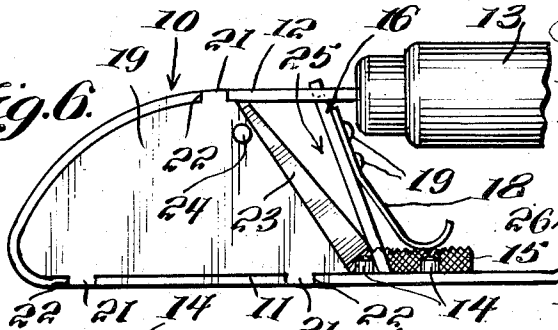
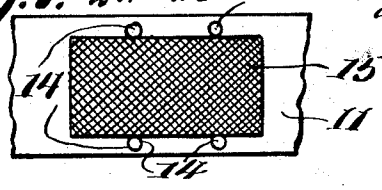


Fig. 7.



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SCISSORS SHARPENER

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2 Claims. (Cl. 76—82.2)

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This invention relates to a sharpening tool, and more particularly to a tool for sharpening scissors.

This invention is an improvement over our scissors sharpener, Patent No. 2,321,956.

The object of the invention is to provide a sharpener whereby scissors can be readily sharpened to produce a sharp cutting edge thereon.

A further object of the invention is to provide a scissors sharpener which is extremely simple and inexpensive to manufacture.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this application, and in which like numerals are used to designate like parts throughout the same:

Figure 1 is a side elevational view of the scissors sharpener according to the present invention, and with parts broken away and in section;

Figure 2 is a top plan view of the scissors sharpener;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1;

Figure 4 is a sectional view taken on the line 4—4 of Figure 1;

Figure 5 is a sectional view taken on the line 5—5 of Figure 1;

Figure 6 is a fragmentary side elevational view of the scissors sharpener;

Figure 7 is a fragmentary top plan view showing the file mounted in the frame.

Referring in detail to the drawings, the numeral 10 designates a frame which includes a bottom wall 11 and a top wall 12 that is arranged in spaced parallel relation above the bottom wall. Projecting from the top wall 12 and secured thereto is a handle 13 which is adapted to be gripped in the user's hand when the tool is being used.

Projecting upwardly from the bottom wall 11 is a plurality of spaced parallel pins 14 which define a guideway for a sharpening file 15, the file 15 being slidably mounted between the pins 14. Extending between the bottom wall 11 and the top wall 12 is a body member 16, the body member 16 being arranged at an angle of approximately 74° with respect to the bottom wall 11. The lower end of the body member 16 is secured to the bottom wall 11, as by welding, and the body member 16 is provided with a cut-out 17 for the projection therethrough of the file 15.

The file 15 can be moved so as to insure that the scissors blade being sharpened is constantly exposed to a sharp portion of the file. For maintaining the file 15 immobile in its adjusted position, a spring member 18 is secured to the body member 16 by means of rivets or the like 19. The spring member 18 is provided with a curved portion which frictionally engages the upper surface of the file 15. Extending between the bottom wall 11 and the top wall 12 is a pair of spaced parallel side walls 19 and 20. The side walls 19 and 20 are provided with tongues 21 which seat in grooves 22 in the top and bottom walls of the frame 10.

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Positioned between the side walls 19 and 20 is a support member 23, there being a pin 24 pivotally connecting the support member 23 to the side walls 19 and 20. The support member 23 coacts with the body member 16 to define a space 25 therebetween for receiving the scissors blade 26 to be sharpened.

For normally urging the support member 23 towards the body member 16, a coil spring 30 is provided. The coil spring 30 has one of its ends circumposed about a short bolt 27 which projects from a head 28 that is secured to the bottom wall 11. The other end of the coil spring 30 embraces a stud bolt 29 that is secured to the body member 23. The coil spring 30 insures that the proper amount of pressure will be applied to the scissors blade 26.

From the foregoing, it is apparent that a tool has been provided which is especially suitable for sharpening scissors and the like. Thus, the user grips the handle 13 and the scissors blade to be sharpened is positioned in the space 25 and moved back and forth across the file 15, whereby a fine cutting edge will be produced.

We claim:

1. A scissors sharpener comprising a frame, said frame including a bottom wall and a top wall arranged in spaced parallel relation above said bottom wall, a handle projecting from said top wall and secured thereto, a plurality of spaced parallel pins projecting from said bottom wall and defining a guideway, a file slidably arranged in said guideway, a body member arranged at an obtuse angle with respect to said bottom wall and extending between said bottom wall and top wall, the lower end of said body member being secured to said bottom wall, there being a cutout in said body member for the projection therethrough of said file, a pair of side walls extending between said top and bottom walls and arranged in spaced parallel relation with respect to each other, tongue and groove means connecting said side walls to said top and bottom walls, a support member pivotally connected to said side

walls and coacting with said body member to define a space therebetween for receiving therein the scissors blade to be sharpened, resilient means for normally urging said support member toward said body member, and a spring member projecting from said body member and having a curved portion arranged in engagement with said file for maintaining the latter immobile.

2. A scissors sharpener comprising a frame, said frame including a bottom wall and a top wall arranged in spaced parallel relation above said bottom wall, a handle projecting from said top wall and secured thereto, a plurality of spaced parallel pins projecting from said bottom wall and defining a guideway, a file slidably arranged in said guideway, a body member arranged at an obtuse angle with respect to said bottom wall and extending between said bottom wall and top wall, the lower end of said body member being secured to said bottom wall, there being a cutout in said body member for the projection therethrough of said file, a pair of side walls extending between said top and bottom walls and arranged in spaced parallel relation with respect to each other, tongue

and groove means connecting said side walls to said top and bottom walls, a support member pivotally connected to said side walls and coacting with said body member to define a space therebetween for receiving therein the scissors blade to be sharpened, resilient means for normally urging said support member toward said body member, and a spring member projecting from said body member and having a curved portion arranged in engagement with said file for maintaining the latter immobile, said resilient means comprising a coil spring having one end operatively connected to said bottom wall and its other end connected to said body member.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
2,321,956	Trapani et al.	June 5, 1943