No. 647,602. Patented Apr. 17, 1900.

M. L. HAWKS.

KNIFE, SCISSORS, OR SKATE SHARPENER.

(Application filed Feb. 17, 1900.)

(No Model.)

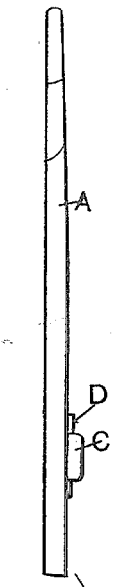

Fig. 2

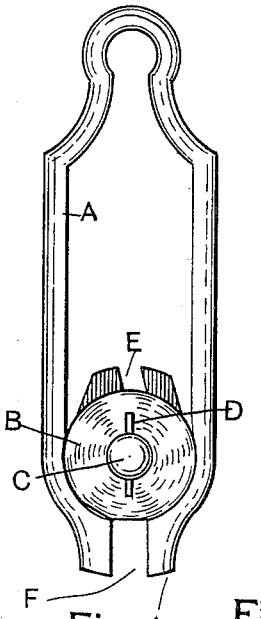

Fig. 1.

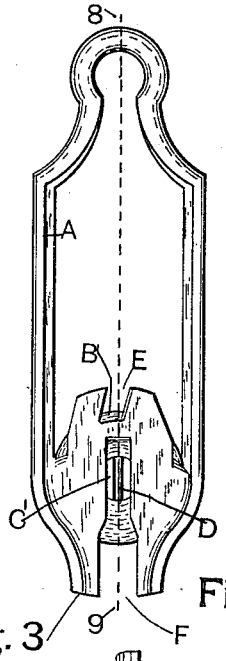

Fig. 3

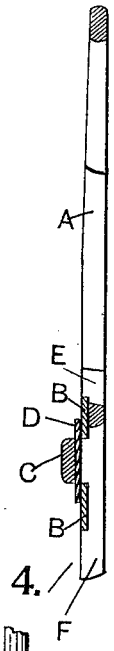

Fig. 4.

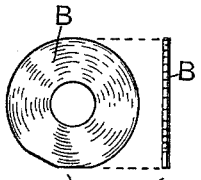

Fig. 7.

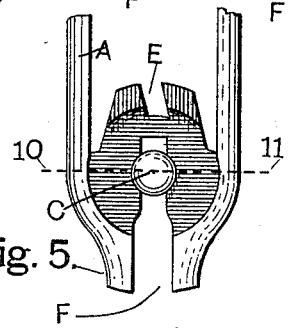

Fig. 5.

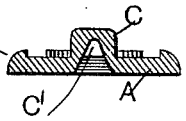

Fig. 6.

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UNITED STATES PATENT OFFICE.

MOSES L. HAWKS, OF CHICAGO, ILLINOIS.

KNIFE, SCISSORS, OR SKATE SHARPENER.

SPECIFICATION forming part of Letters Patent No. 647,602, dated April 17, 1900.

Application filed February 17, 1900. Serial No. 5,622. (No model.)

To all whom it may concern:

Be it known that I, MOSES L. HAWKS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Knife, Scissors, or Skate Sharpener, of which the following is a specification.

My invention relates to a device for sharpening cutlery and ice-skates, and has for its objects certain improvements which enable the articles to be held at a proper angle to the sharpening or abrading edge of the disk while being sharpened and to provide means for properly sharpening skates that are grooved, concaved, or flat on the bottom, and also to provide simple and inexpensive means for securing the disk to the frame.

In the drawings, Figure 1 is a front elevation of my improved sharpener. Fig. 2 is an edge view of the same. Fig. 3 is a rear view of the sharpener. Fig. 4 is a vertical section of the same, taken on the line 8 9. Fig. 5 is a front view of the lower part of the frame. Fig. 6 is a cross-section of the same, taken on the line 10 11; and Fig. 7 is a side and edge view of the disk.

The device consists of the frame A, the sharpening disk or plate B, and a wedge-shaped pin D. The frame is provided with a boss *c*, upon which the disk is mounted, and has a deep groove *c'* at the rear side adapted to receive the pin D, by means of which the disk is secured to the frame. The frame also has a wide central opening and parallel sides which are beveled rearward and at an angle adapted to guide the knife to the abrading edge at the forward side of the disk. A portion of the frame extends into the opening above the disk and has an angular slot E, adapted to properly guide a scissors-blade to the abrading edge of the disk, and the lower end of the frame has a vertical slot F with parallel sides below the disk adaptable as a guide in the sharpening of ice-skates.

The hardened-steel sharpening-plate B, which for convenience I term a "disk," is circular in its general contour, but has a portion cut away at the edge, forming an obtuse angle, as shown at Fig. 7 of the drawings, the object of which is to provide means for sharpening skates that are grooved or concaved or flat on the bottom by adjusting the disk in relation to the slot F of the frame, so as to obtain the desired result in sharpening. The disk also has a round central opening adapted to mounting upon the boss *c* of the frame, and the disk may be adjusted by loosening the pin D and turning the disk around when desired to furnish a new part of the abrading edge at the place where the work of sharpening is performed.

In assembling the parts the disk is mounted on the boss *c* of the frame. The pin D is then inserted through the groove in the boss over the disk and driven down until the disk is firmly secured to the frame, as shown at Fig. 1 of the drawings. In use the sharpener is held with the hand and in a substantially-vertical position while sharpening knives, scissors, or skates.

Knives are sharpened by inserting the blade through the opening in the frame, holding the knife to the rearwardly-beveled side of the frame, and drawing the blade across the abrading edge of the disk at either side. If a very thin edge on the knife is required, then the blade is held in against the outer sides of that portion of the frame extending into the opening above the disk, which also serves as a guide for the knife.

Scissors are sharpened by holding the blade in the angular slot E and with the flat side of the blade to the left side of the slot. The abrupt bevel at the edge of the scissors-blade is thus guided to the abrading edge of the disk and the scissors speedily and properly sharpened by drawing the blade backward from the heel to the point.

In sharpening ice-skates the skate is placed with the bottom up. The sharpener is held to the skate with the runner extending into the vertical slot F. At the lower end of the frame, which serves to guide the bottom of the skate to the abrading edge of the disk, the sharpener is drawn lengthwise of the skate, and the skate may be sharpened flat on the bottom by adjusting the disk as shown at Fig. 1 of the drawings, or it may be concaved by adjusting the disk as shown at Fig. 3 of the drawings, or the disk may be adjusted so as to sharpen skates with an angular groove in the bottom, as occasion requires.

By the peculiar construction of this sharpener and means for securing the disk to the

frame it will also be seen that all machine-work, such as drilling and tapping for screws and screws for fastening, is entirely dispensed with, thus simplifying and reducing the cost of manufacturing as compared with other sharpeners wherein hardened-metal sharpening-disks are employed.

What I claim as my invention, and desire to secure by Letters Patent, is—

A knife, scissors and skate sharpener, consisting of the handle or frame A, the sharpening-disk B, and a key or pin securing said disk to the frame, the frame having a rearwardly-grooved boss C, upon which the disk is mounted, and also having a central opening and parallel sides beveled rearward and adaptable as a guide in the sharpening of knives, also a portion extending into the opening above the disk and having an angular slot adaptable as a guide in the sharpening of scissors, and a vertical slot in its lower end adaptable as a guide in the sharpening of ice-skates, all substantially as shown and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MOSES L. HAWKS.

Witnesses:
WM. J. ROBINSON,
E. M. STALEY.