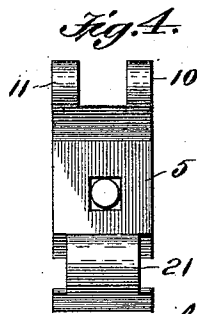
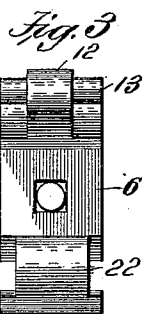
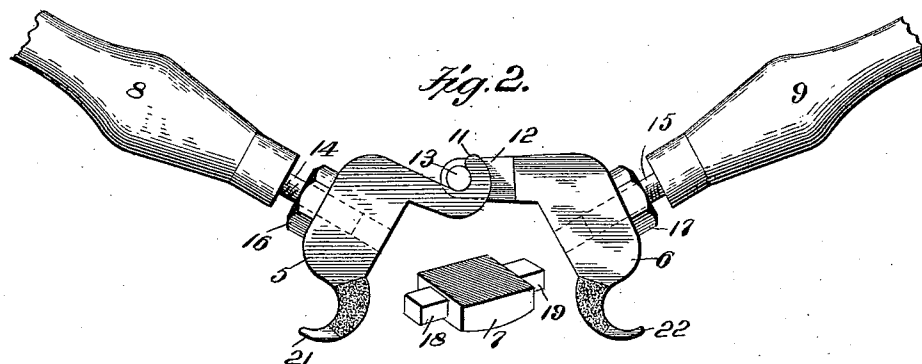
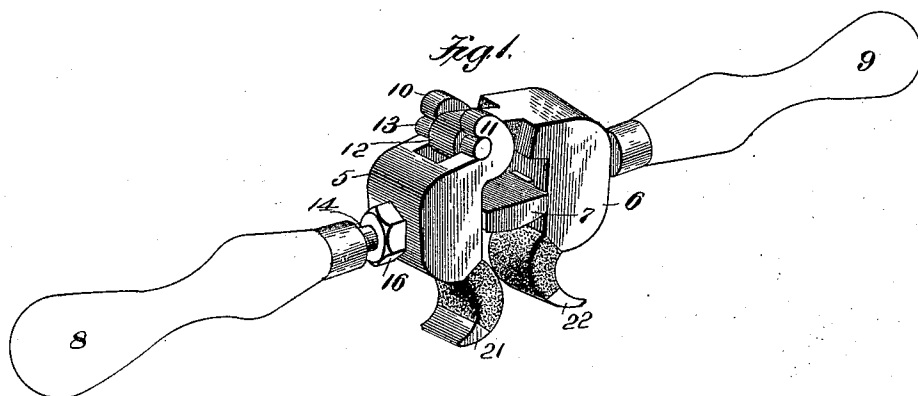


(No Model.)

J. YOUNG.
SKATE SHARPENER.

No. 471,164.

Patented Mar. 22, 1892.



Witnesses:

J. W. Cornwall

Levy B. Hills

Inventor,

Jacob Young,
by Lemuel Goldborough,
Att'y.

UNITED STATES PATENT OFFICE.

JACOB YOUNG, OF TRENTON, NEW JERSEY.

SKATE-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 471,164, dated March 22, 1892.

Application filed January 4, 1892. Serial No. 416,960. (No model.)

To all whom it may concern:

Be it known that I, JACOB YOUNG, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Skate-Sharpener; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in skate-sharpener, and has for its object to furnish a device that may be readily taken apart, so as to be conveniently carried by the user, and that may be quickly adjusted or put together for sharpening skates having either a plane or grooved tread. The construction employed by me for securing these results is illustrated in the accompanying drawings, wherein—

Figure 1 represents a perspective view of my improved skate-sharpener with the parts assembled in position for use. Fig. 2 represents a side elevation of the file-holding jaws swung back from the adjustment shown in Fig. 1, leaving space for the file, which is represented in perspective. Figs. 3 and 4 represent, respectively, front elevations of the file-holding jaws.

Similar numerals of reference indicate similar parts in the several views.

Referring to the drawings, it will be noted that the device as a whole is made up of a file 7 and the file-holding jaws 5 6, having suitable handles 8 9. The jaw 5 is provided with the backwardly-inclined hooked extensions 10 11, and the jaw 6 is provided with a forward extension 12, having a cross-pin 13, which is adapted to rest within the hollow of the extensions 10 11, so as to form a swing-joint therewith. The extension 12 is of sufficient length to permit the parts to be readily disengaged from each other, so as to be conveniently carried.

The handles 8 9 are provided with cylindrical shanks 14 15, which are screwed into corresponding apertures made in the jaws, and are held in position by jam-nuts 16 17. These apertures are squared out at inner faces of the jaws, as indicated in Figs. 3 and 4, for the reception of the squared shanks or

gudgeons 18 19 of the file 7. The file 7 is flat on one side and convex on the other, and is reversible, so as to serve for sharpening skates having either a plane or a grooved tread. Each of the jaws is provided with a downward projection 21 22, faced with felt, or the like, as shown. These projections serve as guides to permit the device to be readily placed over the skate-runner, and the felt or its equivalent prevents the nickel-plating on the sides of the runner from being scratched during the sharpening operation.

The manner of using the device is apparent. The skate to be sharpened may be held either in a vise or in any other suitable manner. The parts are then assembled, as shown in Fig. 1, with either the flat or the convex side lowermost, according as the runner is plane or grooved. By now reciprocating the sharpener back and forth the surface of the file 7 sharpens the skate-runner tread. When the sharpening is completed, the device may be taken apart, so as to be conveniently carried.

Having thus described my invention, what I claim is—

1. A skate-sharpener consisting of interlocking file-holding jaws having operating-handles and a file adapted to be grasped and held between the said jaws, substantially as described.

2. A skate-sharpener consisting of interlocking file-holding jaws having operating-handles and a reversible file plane on one side and convex on the other side, adapted to be grasped and held between said jaws, substantially as described.

3. A skate-sharpener consisting of a file-holding jaw having a forward projection and cross-pin, a second file-holding jaw having backwardly-extending projections adapted to engage with the cross-pin, handles for operating the jaws, and a file adapted to be grasped and held between the jaws, substantially as described.

4. A skate-sharpener consisting of interlocking file-holding jaws having operating-handles and having each a guide projection faced with a soft material and a file adapted to be grasped and held between the jaws, substantially as described.

5. A skate-sharpener consisting of a file-

holding jaw having a forward projection and cross-pin, a second file-holding jaw having backwardly-extending projections adapted to engage with the cross-pin, handles for operating the jaws, said handles having screw-threaded shanks engaging within corresponding apertures in the jaws, said apertures being squared at the inner faces of the jaws, and a file having squared gudgeons engaging

within the squared apertures, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JACOB YOUNG.

Witnesses:

SAML. D. OLIPHANT, Jr.,

F. C. SCWENTIP.