

(No Model.)

H. McCLURE.  
SKATE SHARPENER.

No. 493,174.

Patented Mar. 7, 1893.

Fig. 1.

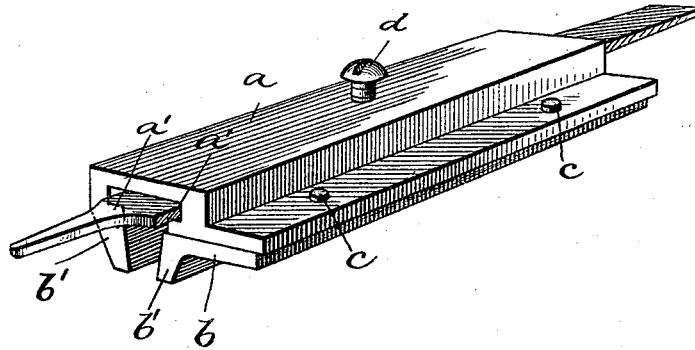
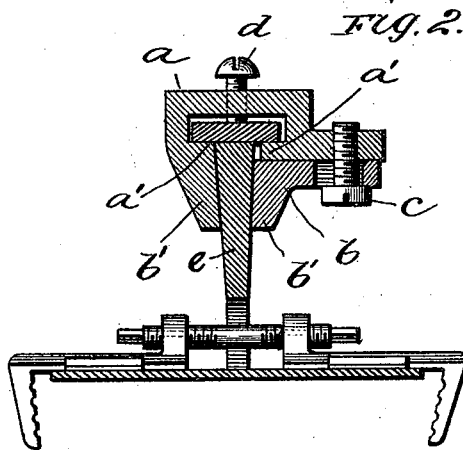


Fig. 2.



Witnesses  
John Walsh.  
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# UNITED STATES PATENT OFFICE.

HARRY MCCLURE, OF HAWARDEN, IOWA.

## SKATE-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 493,174, dated March 7, 1893.

Application filed April 2, 1892. Serial No. 427,515. (No model.)

*To all whom it may concern:*

Be it known that I, HARRY MCCLURE, a citizen of the United States, residing at Hawarden, in the State of Iowa, have invented certain new and useful Improvements in Skate-Sharpeners, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 represents a perspective view of my improved skate sharpener and Fig. 2 a transverse sectional view of the device applied to a skate-runner.

The invention will be fully understood and appreciated from the following detailed description of the preferred form of the device.

In the drawings, *a* designates an open ended file holding box or casing, which is long and flat and is substantially rectangular in cross-section. A longitudinal slot is formed in the lower side of the box, this slot extending the full length of the box, at or near its center, and forming the inwardly projecting lips *a' a'*.

The file *d* is of the flat rectangular variety and extends the full length of the box. The file is slightly smaller than the area of the box and when inserted therein rests on the lips *a'* and covers the slot or space between them, a set-screw *d* being tapped through the center of the top of the box to hold the file firmly down on the lip. Depending from the inner edge of one of the lips *a'* is an integral guiding-flange *b'*, this flange extending the full length of the box and having its inner side beveled downwardly and inwardly. A plate *b* extending the length of the box, is adjustably secured to the underside of the box on the opposite side of the slot from guide *b'*, and formed integrally with the inner edge of this plate is a depending flange *b'* similar in construction to the flange *b'* on the opposite side of the slot, as is evident. This plate *b*, carrying one of the flanges, is adjustable inwardly and outwardly to accommodate runners of various sizes, two or more set-screws *c* being employed for this purpose, these screws preferably passing through slots in the plate and tapped in the underside of the box, as shown. One screw is preferably secured near each end of the device so that the movable guiding-flange will always be parallel with the opposite stationary flange whereby the

file will be guided truly and prevented from sidewise motion on the runner.

In use, the device is applied as shown in Fig. 2 that is, it is placed over the upturned edge of the skate-runner *e* the edge of the latter resting squarely against the lower or bearing face of the file. The adjustable flange is adjusted inwardly against the runner and firmly secured, thereby lightly clamping the runner between the jaws. By reciprocating the device upon the runner the latter's edge may be readily filed off true and square.

The advantages of this device are important. By reason of the beveling of the inner sides of the flanges, they will conform to the bevel of the runner and more truly guide the device and prevent it rocking or vibrating during its movements, whereby the edge or face of the runner will be filed off true and square. If the bevel of the sides of the runner is sufficient the inclined faces of the jaws or flanges will prevent the device leaving the runner and hold it down closely to the same. The advantage in resting the file upon the lips *a'* lies in the fact that the adjustment of the flange will not be interfered with by the file, the file and flange being movable independently of each other, and the movable flange will be relieved of all pressure from the file.

The device is very simple and cheap, being constructed, with the exception of the screws, of but two inexpensive parts.

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

1. In a skate sharpener the combination of a box or case *a* having its ends open and a central longitudinal slot, extending the full length of its underside this slot forming the integral inwardly-extending supporting-lips *a' a'*, means for clamping the file down upon the lips *a'* so as to cover the longitudinal slot, and the depending guiding flanges *b' b'* arranged on opposite sides of the slot, and means for adjustably securing one of these flanges to the box, substantially as described.

2. The combination of a long casing *a* open at both ends and provided with a slot in its under side, said slot forming the inwardly-extending supporting-lips *a'*, means for clamp-

ing a file down on said lips, an integral guiding-flange  $b'$  extending the full length of the casing, along one edge of the slot, an adjustable plate  $b$  secured to the underside of the  
5 casing and extending its full length and provided along its inner edge with a depending guiding-flange  $b'$ , similar to and parallel with the integral flange, said guiding-flanges being beveled downwardly and inwardly on their  
10 adjacent faces, and screws  $c$  adjustably con-

necting the adjustable plate to the casing, one of these screws being secured near each end of the casing, substantially as described.

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

HARRY McCLURE.

Witnesses:

A. E. VANCE,

W. W. REYNOLDS.