

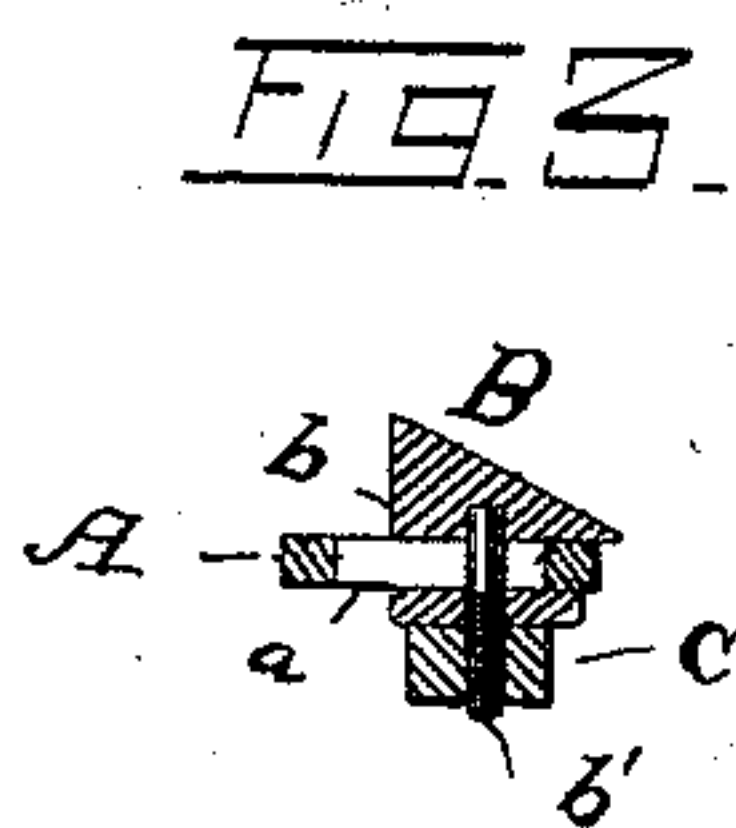
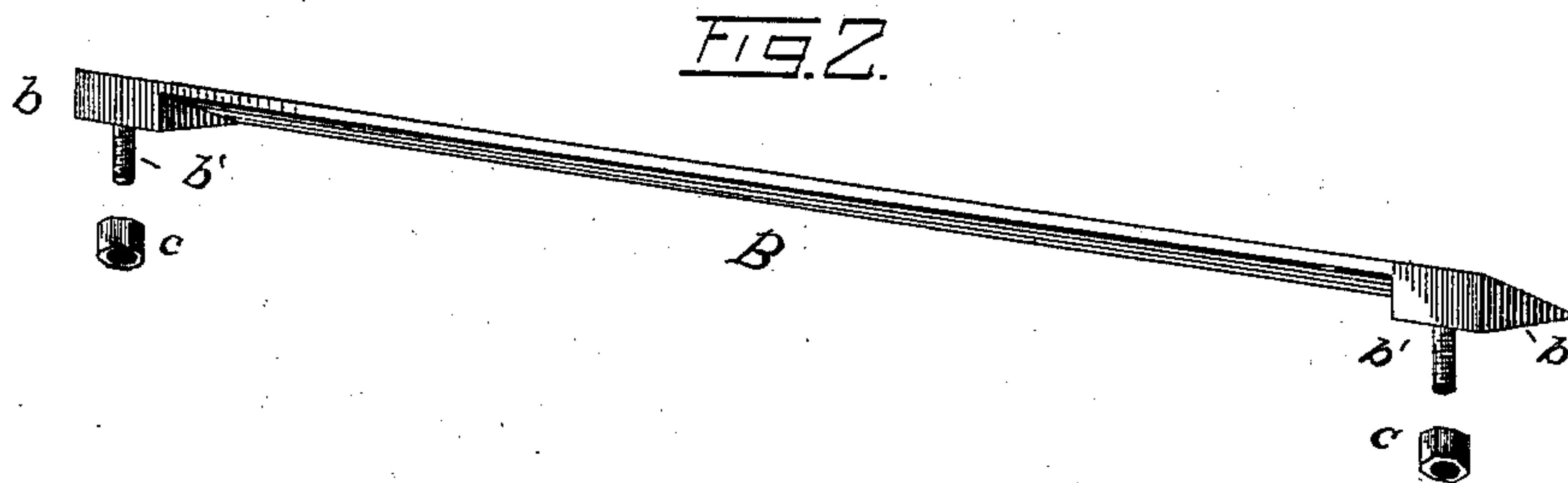
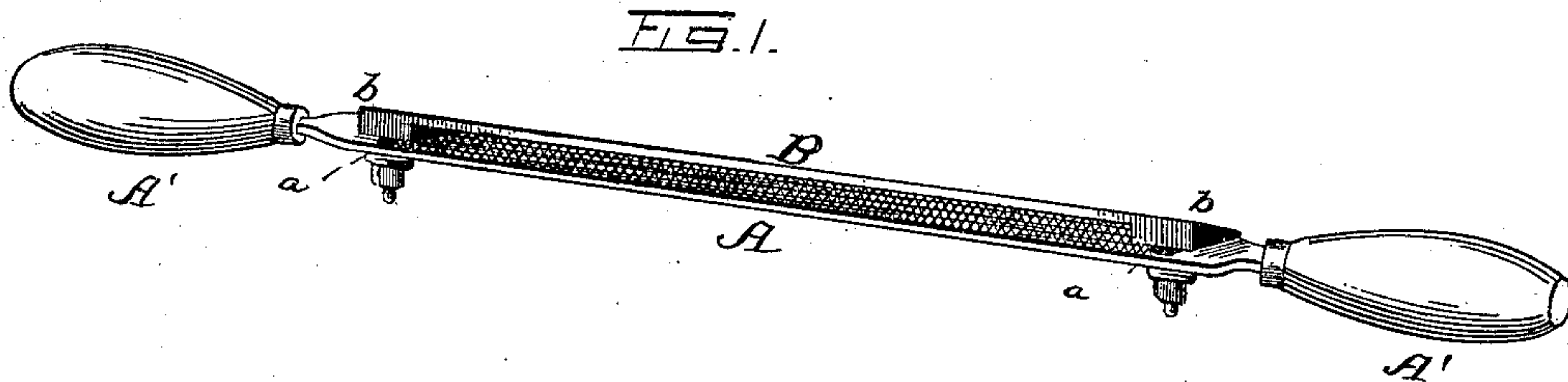
(No Model.)

E. S. ELKIN.

DEVICE FOR SHARPENING HORSESHOE CALKS.

No. 345,491.

Patented July 13, 1886.



Witnesses
Morris A. Clark
Jno. C. Schroeder

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UNITED STATES PATENT OFFICE.

EDWIN S. ELKIN, OF SPRINGFIELD, ILLINOIS.

DEVICE FOR SHARPENING HORSESHOE-CALKS.

SPECIFICATION forming part of Letters Patent No. 345,491, dated July 13, 1886.

Application filed March 26, 1886. Serial No. 196,697. (No model.)

To all whom it may concern:

Be it known that I, EDWIN S. ELKIN, a citizen of the United States, residing at Springfield, in the county of Sangamon and State of Illinois, have invented certain new and useful Improvements in Files; 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 an improvement in files particularly intended for sharpening the calks of horseshoes, but equally well adapted for other similar purposes; and the object of this improvement is to enable the calks to be sharpened without removing the shoe from the hoof of the horse, or without removing the calks if they be removable ones; and the novelty therein lies in the combination, with an ordinary flat file, of a beveled bar or guard removably attached to the same and made adjustable crosswise, all as will be more fully hereinafter described and claimed.

For a better understanding of the details of construction and arrangement, attention is invited to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved file; Fig. 2, a detail of the beveled bar or guard and its attachments; and Fig. 3, a cross-section through the file and bar or guard at one of the points of attachment.

Similar letters of reference denote corresponding parts in the several views.

A denotes the blade of a common steel file, preferably about a foot in length and two inches wide, with a handle, A', at each end for convenience in holding and manipulating the same with both hands. This blade A is provided with two oblong slots or eyes, *a a*—one at each end—running crosswise, which permit of the attachment and adjustability of a beveled bar or guard, B. This bar or guard is beveled preferably on both sides, but has at each end a flat seat, *b*, with a projecting pin or stud, *b'*, screw-threaded on the end, as shown in Fig. 2, and is applied lengthwise to one side of the blade A, with its pins or studs *b' b'* passed through the slots or eyes

a a, and secured by nuts *c c*, screwed on the ends of said pins or studs. By attaching the bar or guard in this way it is adapted to be easily removed and is rendered adjustable crosswise of the blade to suit the requirements in sharpening calks.

In using this file the calk is inserted between the blade A and the bar or guard B, and the file is then operated in the same way that other flat files are operated.

It will be evident that the bar or guard could be made rigid with the file, and that the slots or eyes in the blade could be made round or of some other shape instead of oblong.

The advantages of a file made in this way are that a better hold can be obtained upon the calks, while at the same time the work of sharpening can be done easier, quicker, and better than with other files.

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

1. The combination, with a file, of a beveled bar or guard, substantially as described.

2. The combination, with a file, of a removable beveled bar or guard, substantially as described.

3. The combination, with a file, of a removable and adjustable beveled bar or guard, substantially as described.

4. The combination, with a file, of a bar or guard attached to and arranged parallel with the blade and adjustable crosswise of the same, substantially as described.

5. In combination, a file with a slot or eye at each end, and a beveled bar or guard having pins or studs passed through said slots or eyes and secured by nuts, substantially as described.

6. In combination, the file A, with an oblong slot or eye, *a*, at each end, the beveled bar or guard B, with a seat, *b*, and a pin or stud, *b'*, at each end, and the nuts *c c*, substantially as and for the purposes set forth.

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

EDWIN S. ELKIN.

Witnesses:

CHAS. E. RITTENHOUSE,
S. M. TAYLOR.