

(No Model.)

J. E. ELKERTON.
HORSESHOE.

No. 428,594.

Patented May 27, 1890.

Fig. 1.

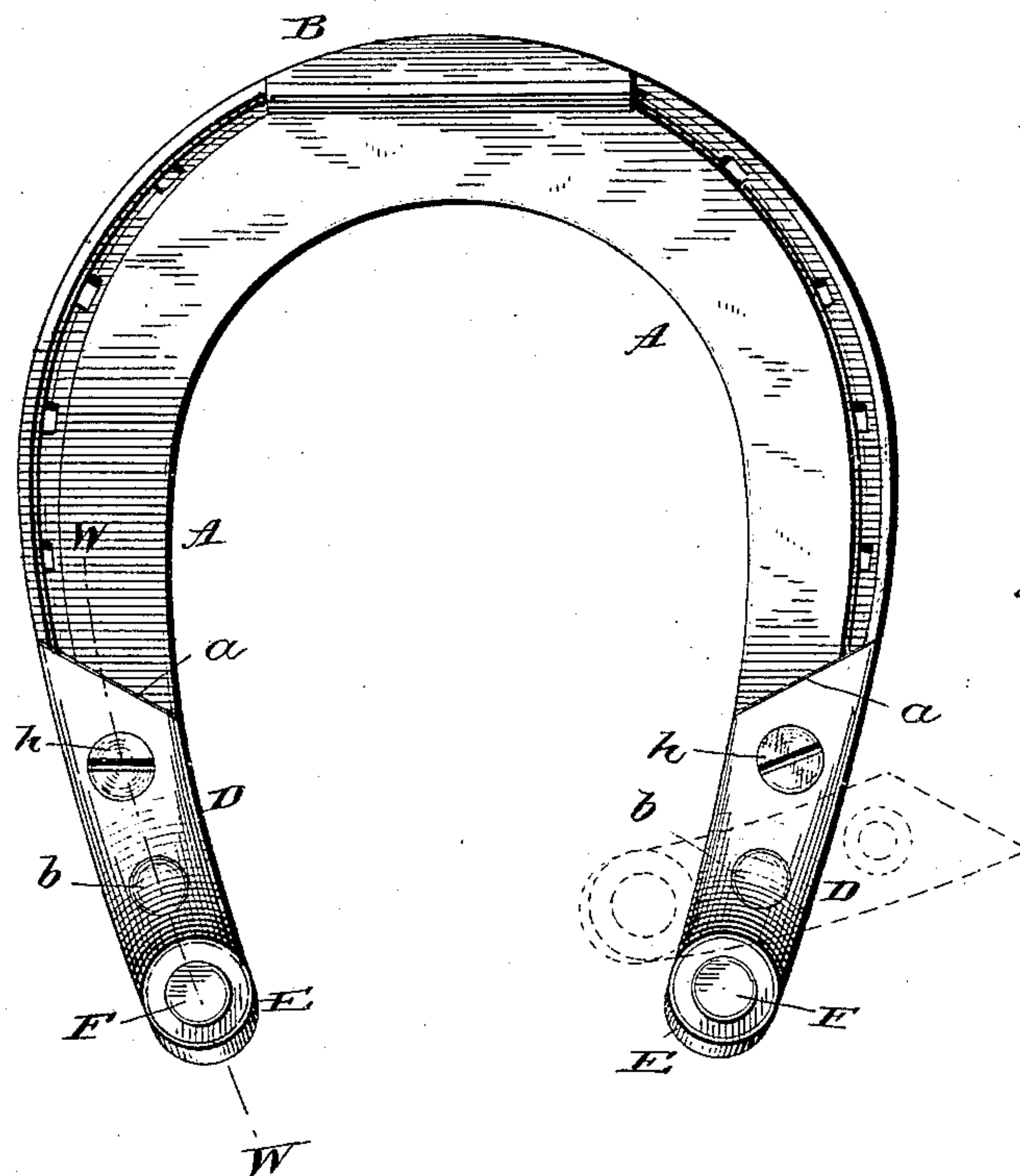
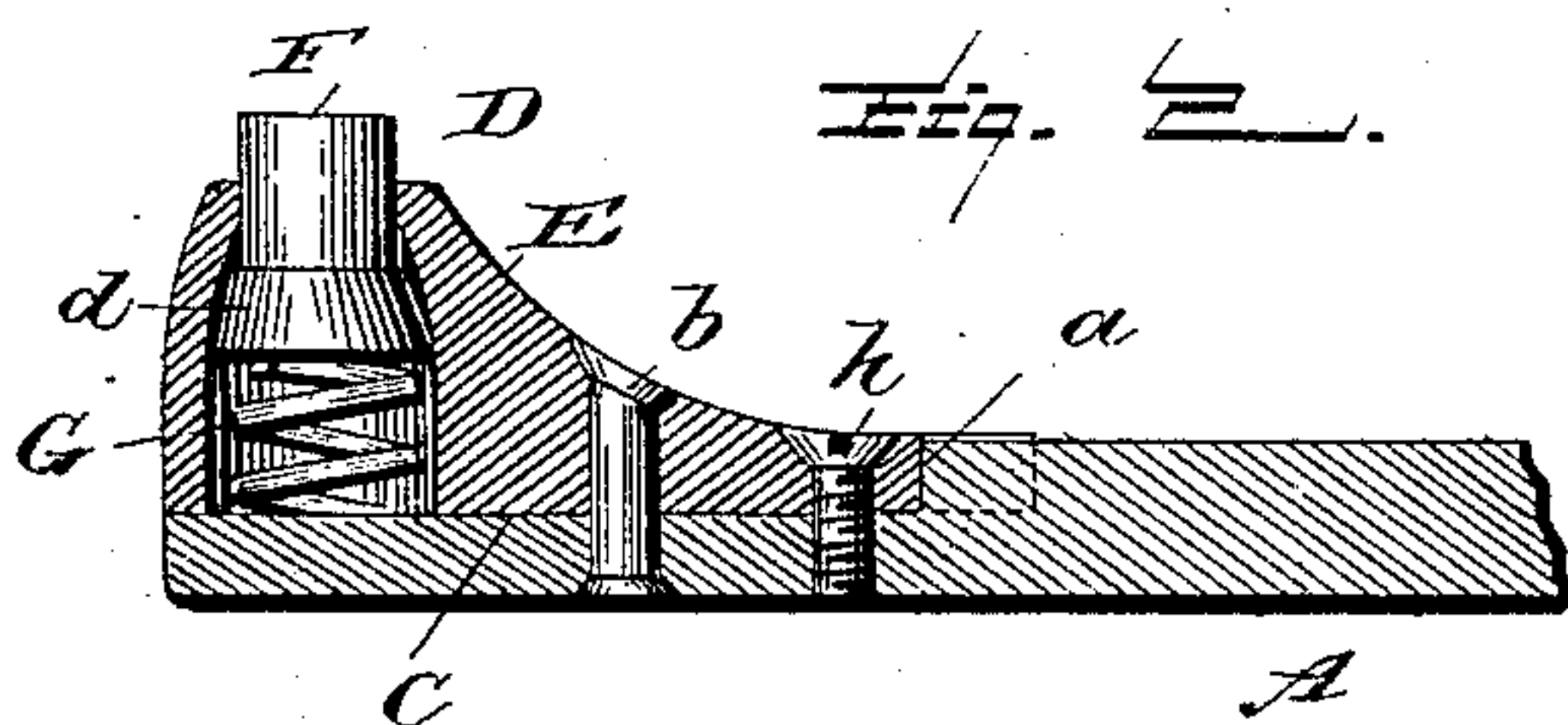


Fig. 2.



WITNESSES:

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HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 428,594, dated May 27, 1890.

Application filed December 31, 1889. Serial No. 335,506. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. ELKERTON, a citizen of the United States, residing at Grand Junction, in the county of Van Buren and State of Michigan, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

This invention relates to certain new and useful improvements in horseshoes; and it has for its object to provide an improved horseshoe with heel-calks which shall take the jar from the horse's hoof and prevent soreness thereof.

The novelty resides in the peculiarities of construction and the combination, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a plan view of my improved shoe with one of the heel-calks and its attachment shown thrown round in dotted lines. Fig. 2 is an enlarged section on the line W W of Fig. 1.

Referring to the details of the drawings by letter, A designates the shoe provided with a toe-calk B of any known form and construction. The general shape of the shoe is of the usual form of horseshoes. Near the heel of the shoe it is formed with recesses or cut-away portions C, forming a shoulder *a*, arranged on an angle, as shown in Fig. 1, and in this recess is adapted to be seated the heel attachment D, which is pivotally attached, as shown at *b*, and at its outer end formed with a boss E, chambered, as shown, and within the chamber of the boss is arranged a heel-calk F, which projects through a hole in the boss, the said heel-calk being provided with an enlarged head *d* within the boss, which is preferably tapered and serves

to prevent the calk from being forced entirely out of the hole in the boss.

G is a spring arranged within the boss and bearing on the end of the calk, as shown, finding its other point of resistance on the main portion on the shoe on which the calk-carrier rests.

To assemble the parts, the calk-carrier is thrown round on its pivot into the position in which it is shown by dotted lines in Fig. 1, and the calk inserted in the boss, and the spring then placed in position. The carrier is then thrown round into the position shown by full lines, and there securely held by means of a screw *h*. The inner end of the calk-carrier is inclined to conform to the incline of the shoulder on the shoe-body, so that when the parts are brought into position the said inclines serve as a stop to limit the movement of the carrier and prevent accidental displacement.

The pivoting of the carrier provides for the throwing round of the same to get at the spring to change the same, if desired, to make the movement of the calk less rigid, or more so, as occasion may require.

The carrier may be attached to the shoe without forming the recess above mentioned, if desired, tapering off the carrier to provide a neat finish; but the form illustrated is preferred.

What I claim as new is—

1. A horseshoe provided with a pivoted heel-calk carrier, combined with a detachable heel-calk held in said carrier, substantially as described.

2. A horseshoe formed with a recess, combined with a heel-calk carrier pivoted in said recess and formed with a boss, a heel-calk held in said boss, and a spiral spring within the boss acting on the calk, as set forth.

3. A horseshoe formed with a recess at its heel and a heel-calk carrier pivoted in said recess, combined with a heel-calk loosely held within a boss on said carrier and having an enlarged head, and a spiral spring within the boss and acting on the inner end of head of the calk, substantially as specified.

4. A horseshoe formed at its heel with a

recess forming an inclined shoulder, combined with a heel-calk carrier pivoted in said recess and formed with an inclined inner end and a boss at its outer end, a heel-calk loosely
5 confined within the boss to reciprocate therein, and a spiral spring held within the boss and acting on the head of the calk, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JAMES E. ELKERTON.

Witnesses:

A. D. HURLBUT,
EDSON D. ROGERS.