

H. L. & G. W. HOMAN.  
Horseshoe.

No. 197,553.

Patented Nov. 27, 1877.

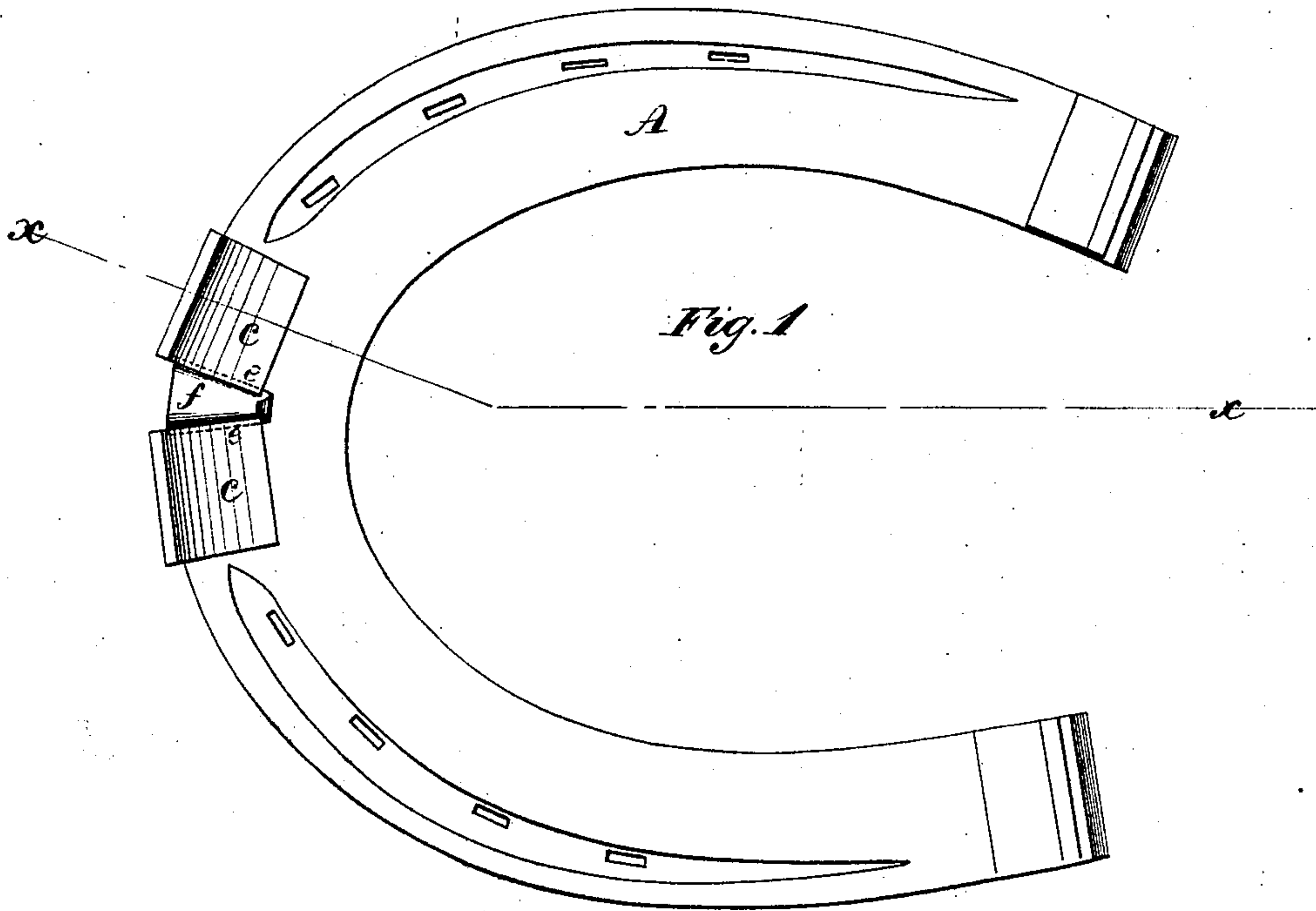


Fig. 2

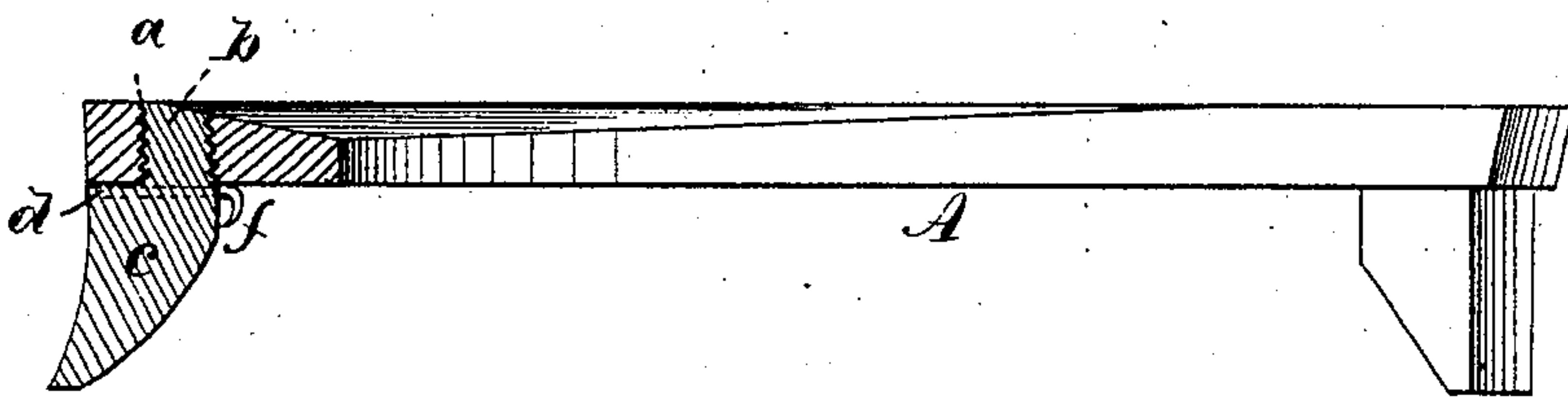
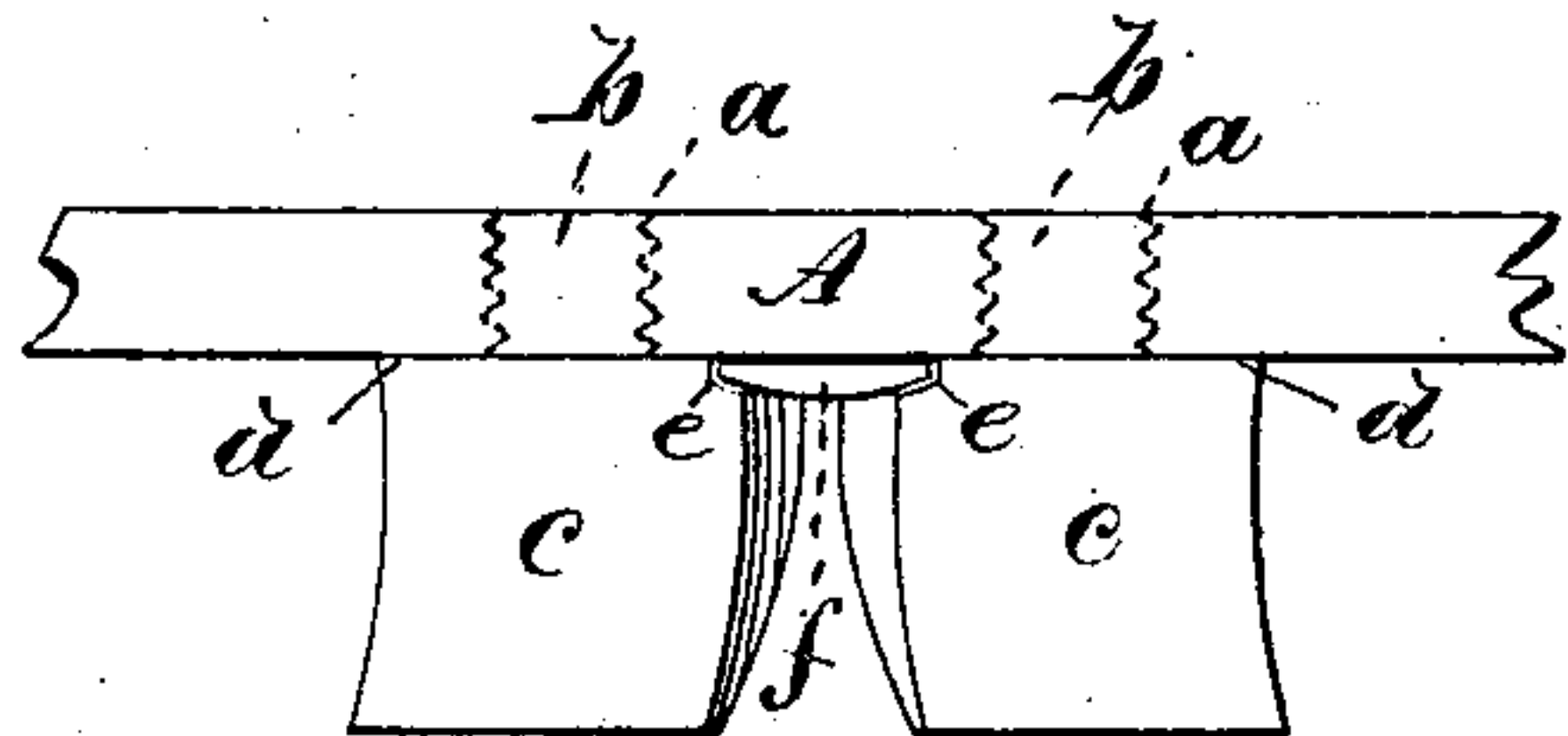


Fig. 3



WITNESSES:

*A. W. Arngvist*  
*J. H. Scarborough.*

INVENTORS

*H. L. Homan.*  
*G. W. Homan.*  
BY *Munn & Co.*

ATTORNEYS.

# UNITED STATES PATENT OFFICE.

HENRY L. HOMAN AND GEORGE W. HOMAN, OF EASTON, MISSOURI.

## IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. **197,553**, dated November 27, 1877; application filed October 19, 1877.

*To all whom it may concern:*

Be it known that we, HENRY L. HOMAN and GEORGE W. HOMAN, of Easton, in the county of Buchanan and State of Missouri, have invented a new and Improved Horseshoe, of which the following is a specification:

Figure 1 is an inverted plan view of our improved horseshoe; Fig. 2, a sectional view taken on line *x x* in Fig. 1; and Fig. 3, a front elevation of a portion of a shoe, showing the toe-calks.

Similar letters of reference indicate corresponding parts.

The object of our invention is to provide a horseshoe having removable toe-calks, which are sufficiently solid when secured to the shoe to resist all the strains to which they may be subjected, and are easily removed, so that when they become worn they may be readily replaced.

The invention consists in two calks, having formed on them screw-threaded shanks, which are fitted to corresponding holes in the shoe, and are prevented from turning by a key fitted to notches formed in the side of calks.

In the drawings, A is a shoe of ordinary form, except that it is made without the usual toe-calk.

In the toe there are two tapped holes, *a*, for receiving the threaded shank *b* of the removable calks *c*.

A shoulder, *d*, is formed upon the calk, which rests firmly against the under surface of the shoe when the calk is secured to the shoe.

The two calks, which take the place of the ordinary toe-calk, are placed a small distance apart, and in their adjacent faces notches *e* are formed for receiving the key *f*, which is driven between the calks and in contact with the under surface of the shoe. This key, when in place, effectually prevents the calks from turning, and is itself retained in place by bending its smaller end outward toward the edge of the calk.

Calks of various forms and sizes may be secured to the shoe in this way.

When it is desired to remove the calks for any purpose the point of the key is straightened and the key withdrawn, when the calks may be readily unscrewed.

The heel-calks are shouldered and screwed into the heel of the shoe, and prevented from turning by setting the iron of the shoe against it by means of a punch.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the grooved screw-shanked calks with the shoe and the securing-wedge, substantially as and for the purpose set forth.

HENRY L. HOMAN.  
GEORGE W. HOMAN.

Witnesses:

SOLOMON G. BABCOCK,  
ROBT. WOODWARD.