

E. Snelder,

Horseshoe,

N^o 58,495,

Patented Oct 2, 1866.

Fig. 1.

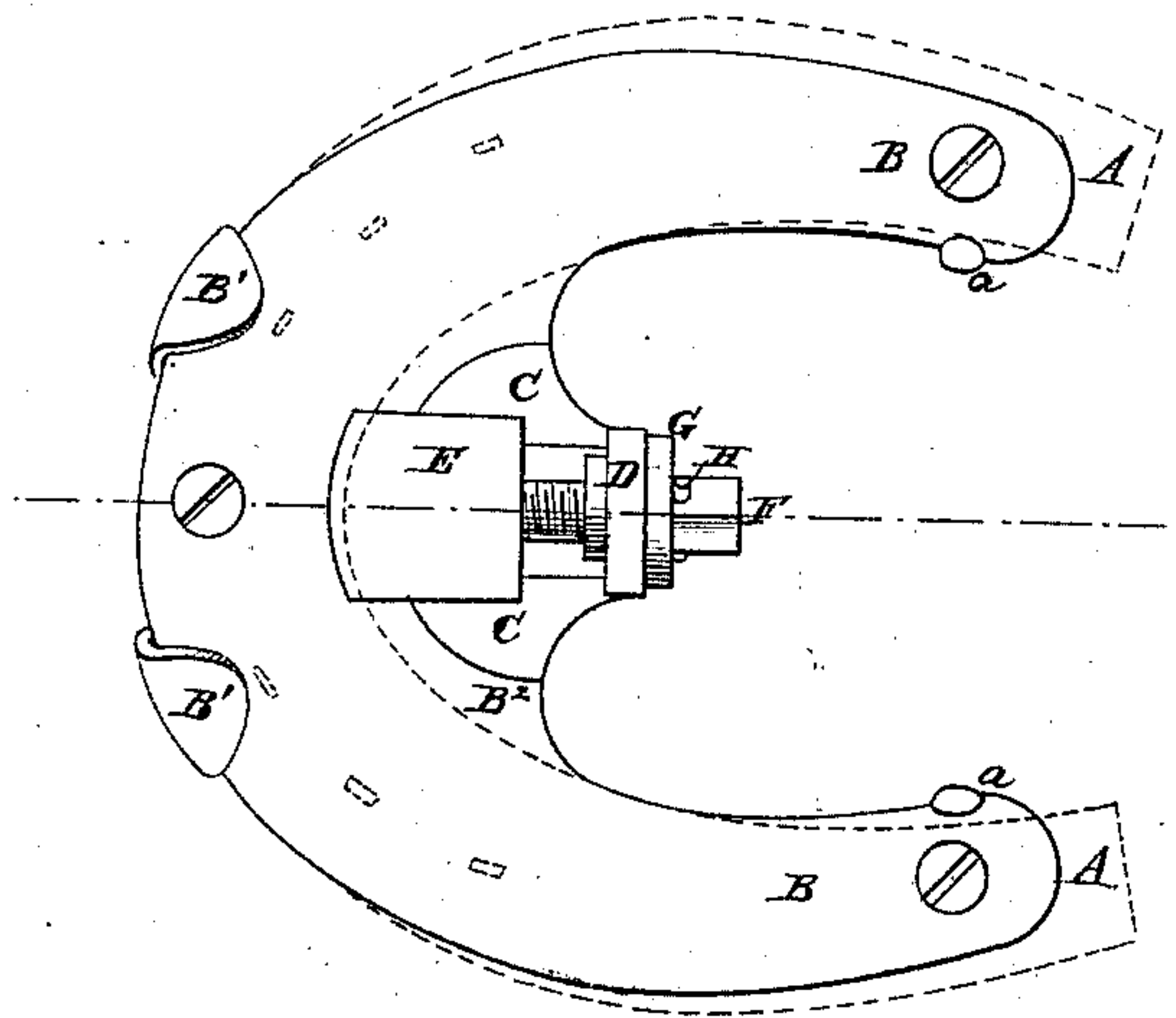


Fig. 2.

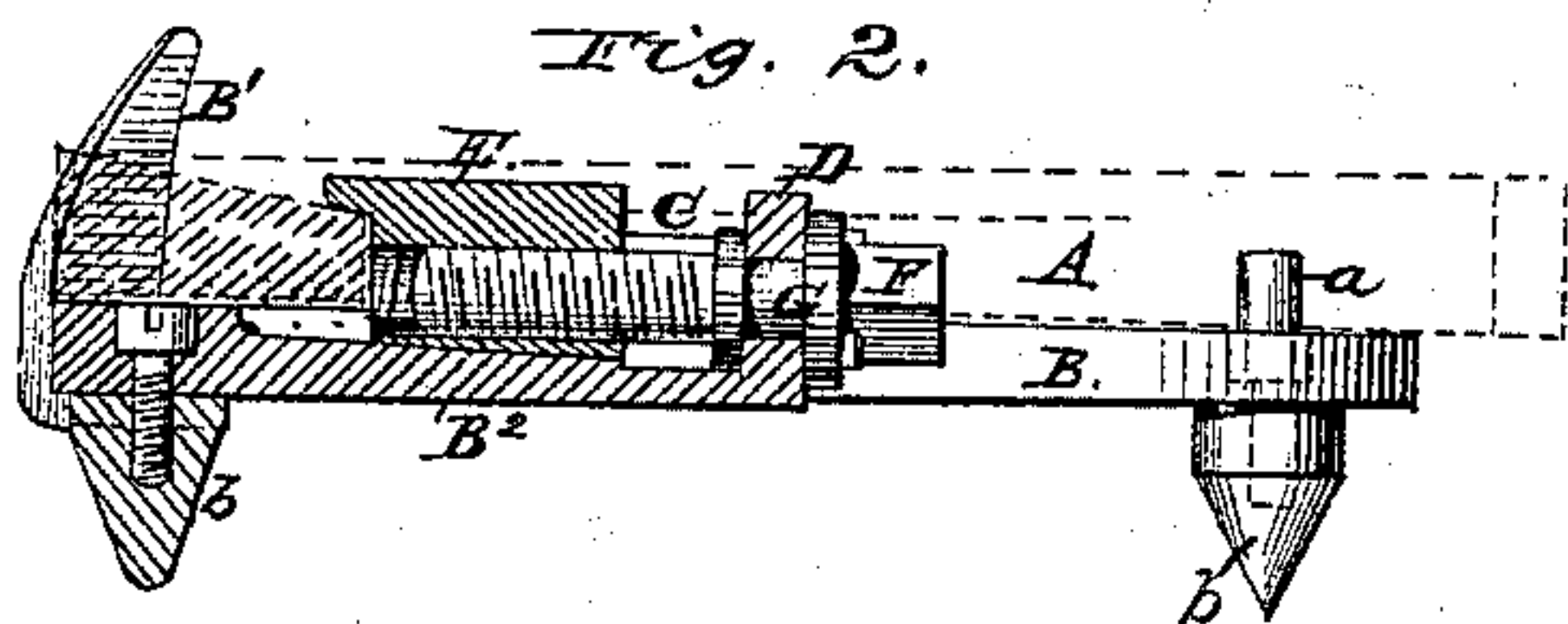
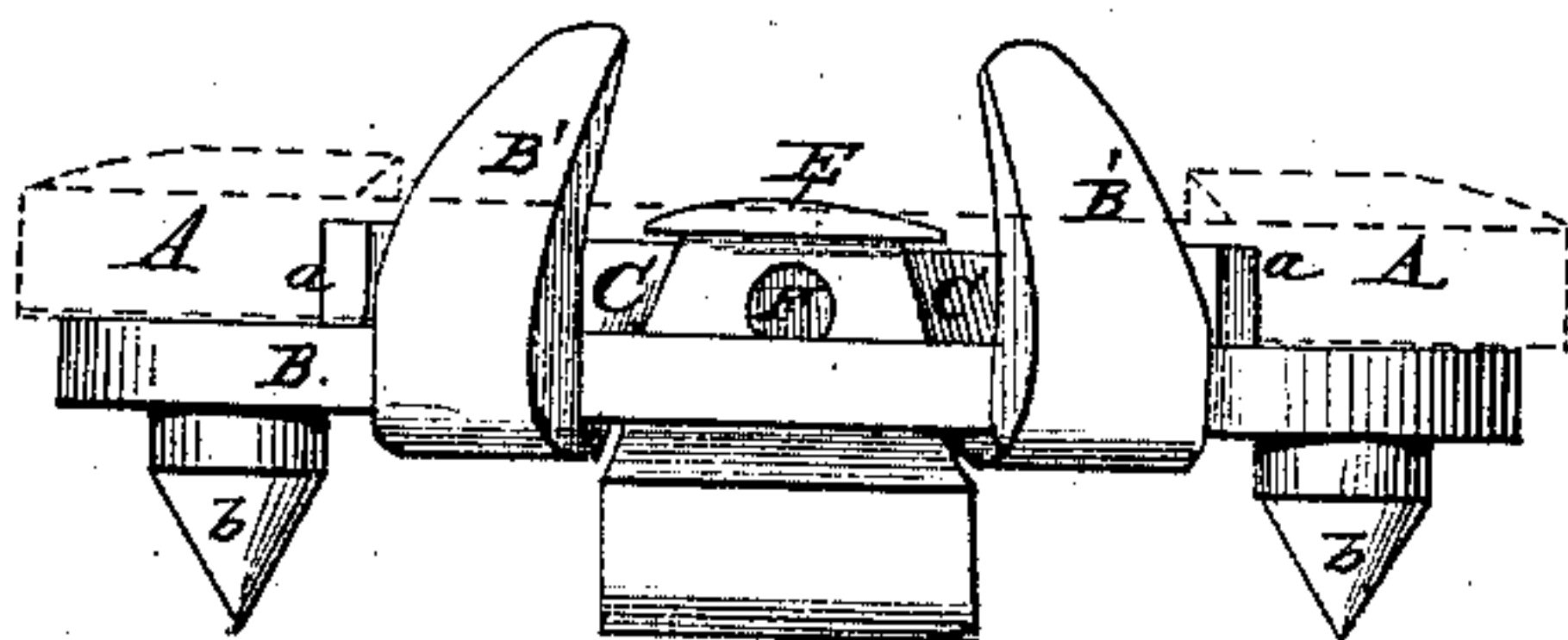


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

EDWARD SNEIDER, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 58,495, dated October 2, 1866.

To all whom it may concern:

Be it known that I, EDWARD SNEIDER, of the city and county of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a plan of my improved horseshoe. Fig. 2 is a central longitudinal section of the same, and Fig. 3 is a transverse section on the line *x x*.

Similar letters of reference indicate corresponding parts in all the figures.

The subject of this invention is a false or supplemental shoe, which is armed with calks or roughing devices, and is applied to the common fast shoe to enable the horse to travel upon the ice without slipping.

The invention consists in the devices by which the false shoe is clamped upon the fast shoe and in means for protecting the operating parts from gravel, &c.

The following description will enable others skilled in the art to which the invention appertains to fully understand and use the same.

In the accompanying drawings, A represents the ordinary shoe, which is constructed and nailed to the hoof in customary manner.

B is the supplemental shoe, which is provided with the pointed calks or projections *b*, which, when the shoe is applied, prevent the horse from slipping. The shoe B is formed with upwardly-projecting toe-pieces B' B', and behind the pieces B' are two projecting guides, C C, and a lug, D, which parts are disposed as shown in Fig. 1, and formed or cast in one piece with the base-plate B² and shoe B.

The guides C C are dovetailed to receive a sliding clamp, E, which is advanced by means of a square-headed screw-bolt, F, working in the lug D.

The method of clamping the supplemental shoe onto the fast shoe is clearly shown in the drawings. The shoe B is first placed against the shoe A, with the front part of the latter fitting between the toe projections B' and the guides C C. The clamp E is then forced forward against the inner edge of the shoe A, the flange *e* of the clamp slightly overlapping the top thereof, as shown.

It will be seen that the toe-pieces B' serve to prevent the backward displacement of the supplemental shoe B if the clamp E should not be sufficiently tight. The lateral displacement of the supplemental shoe B is prevented by the studs *a a*, which are formed on the rear extremities of the shoe B and project upward alongside of the inner edges of the shoe A.

The plate B² completely covers the operating parts at the under side and prevents the interference of gravel, &c.

G represents an annular washer applied to the end of the bolt F, behind the lug D, and retained in position by a pin, H, passing through the bolt and resting in a groove in the washer. The washer is split and has sufficient spring or elasticity to press forcibly against the lug D and pin H, and thus be prevented from turning. Hence the washer, being made fast to the screw-bolt F and incapable of turning, prevents said bolt from working loose when the horse is in motion.

As the toe-pieces B' are inclined to conform to the hoof against which they rest, the supplemental shoe B may be held on with sufficient security whether the flanged clamp E overlap the shoe A or be simply retained snugly in contact with the same.

Having thus described my invention, the following is what I claim as new herein and desire to secure by Letters Patent:

1. A supplemental shoe, B, provided with the inclined toe-pieces B' B', sliding clamp E, and screw-bolt F, whereby said supplemental shoe is to be clamped to the fast shoe, substantially as described.

2. The split spring-washer G, applied to the bolt F to prevent the same from working loose, substantially as described.

3. The studs *a a*, formed on the rear extremities of the supplemental shoe B, and employed to prevent the lateral displacement of the same, substantially as described.

4. The combination, with the supplemental shoe B, of the clamp E, guides C C, and protecting-plate B², all constructed and arranged substantially as and for the purpose herein specified.

EDWARD SNEIDER.

Witnesses:

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