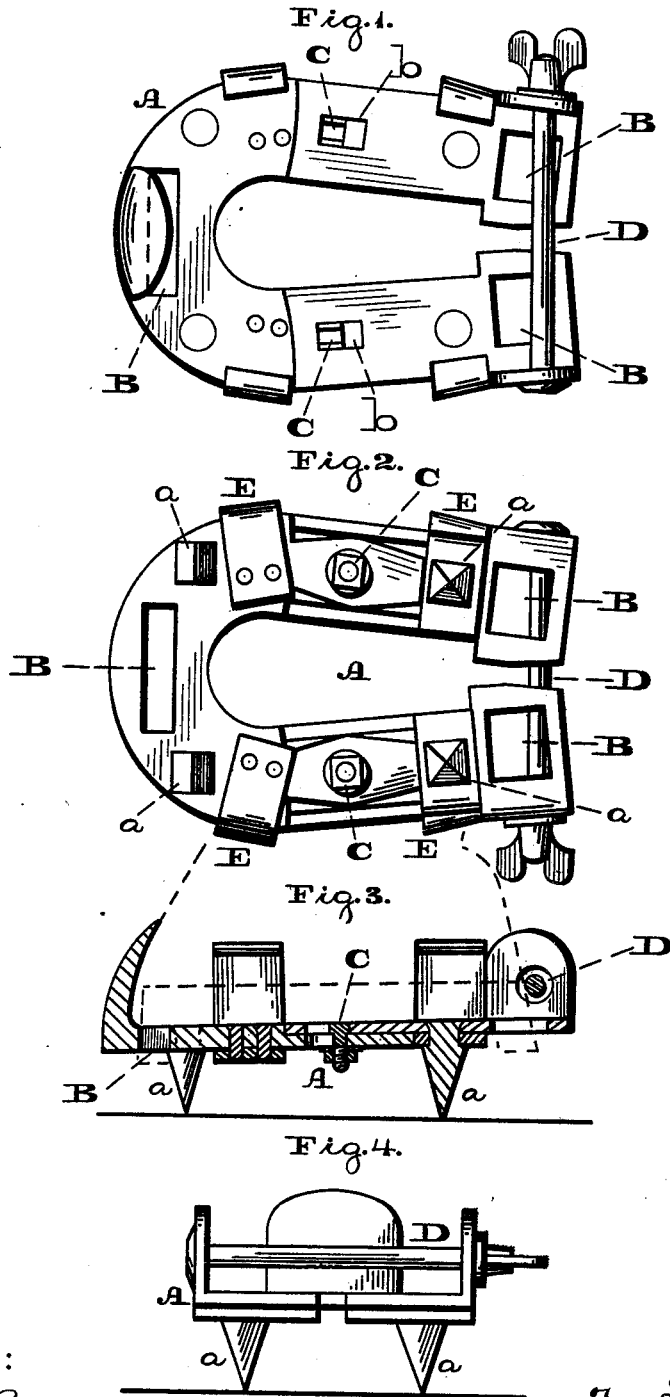


F. SENFT & U. LORCH.  
Horseshoe.

No. 198,419.

Patented Dec. 18, 1877.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

FRED. SENFT AND ULRICH LORCH, OF PHILADELPHIA, PENNSYLVANIA.

## IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. **198,419**, dated December 18, 1877; application filed November 6, 1877.

*To all whom it may concern:*

Be it known that we, FRED. SENFT and ULRICH LORCH, both of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Horseshoes, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a top view of the shoe embodying our invention. Fig. 2 is a bottom view thereof. Fig. 3 is a longitudinal vertical section thereof. Fig. 4 is a rear view thereof.

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

Our invention consists of an overshoe adapted to be applied to a shoe fixed to the hoof, and employed when streets and roads are in icy condition, said shoe being longitudinally and laterally adjustable.

Referring to the drawings, A represents a shoe, in the toe and heel portions of which there are transversely-extending slots B, spurs or calks *a* being fixed to the shoe at proper places.

The shoe is made sectional, the rear sections of which are connected to the front section by bolts C, which pass through respective portions of both sections, the heads of the bolts playing in slots *b* of the sections of each side.

To the heel portions of the sections there is attached a bolt, D, which is adapted to clamp the shoe firmly in position, and clips E are employed to assist in securing a firm connection of the shoe to the hoof.

During icy and slippery weather the shoe A is fitted to the shoe already nailed or se-

cured to the hoof. In this case the calks of the fixed shoe enter or project into or through the slots B. The bolt D is tightened, and the shoe A is firmly clamped to the fixed shoe and to the hoof of the animal, whereby the animal is shod with a shoe having ice calks or spurs *a*.

When the streets and roads are in better condition the overshoe A is removed, and the animal again uses the shoe remaining fixed to its hoof.

The bolts C, acting as axes, permit the shoe to be expanded and contracted laterally, and the slots *b* permit the shoe to be lengthened and shortened, whereby the overshoe may be adjusted to fixed shoes and hoofs of different dimensions, the adjustment being retained by tightening the nuts of said bolts C.

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

1. The overshoe having openings B, and formed in sections which are longitudinally and laterally adjustable, substantially as and for the purpose set forth.

2. The overshoe A, formed in sections, and having slots B, in combination with the axial bolts C, having heads fitted in slots *b* of the sectional sides of the shoe, and with the clamping-bolt D, substantially as and for the purpose set forth.

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