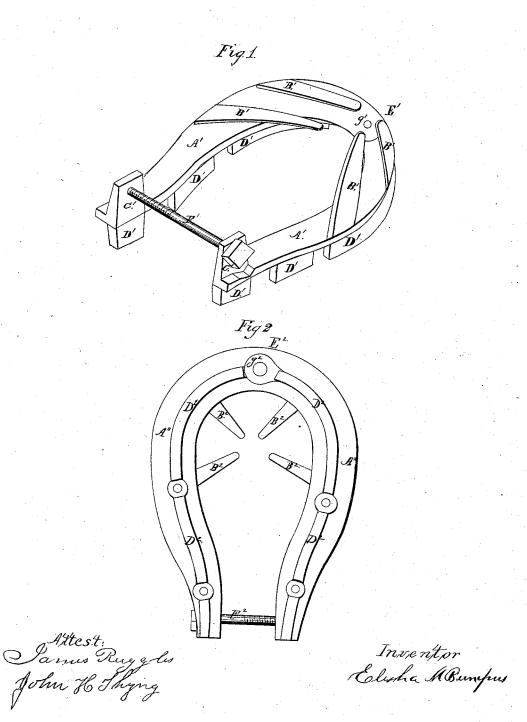
E. M. BUMPUS. Horseshoe.

No.168,872.

Patented Oct. 19, 1875.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

## UNITED STATES PATENT OFFICE.

ELISHA M. BUMPUS, OF ROCHESTER, MASSACHUSETTS.

## IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. 168,872, dated October 19, 1875; application filed May 11, 1875.

To all whom it may concern:

Be it known that I, ELISHA M. BUMPUS, of Rochester, State of Massachusetts, have invented certain Improvements in Horseshoes, of which the following is a specification:

The objects of my invention are to secure the shoe to the hoof without the application of nails, and for ease in standing and travel-

Figure 1 is a perspective view of my invention. Fig. 2 is a plan of the bottom of the shoe and the calks.

Fig. 1, A1 A1 is the shoe, which is made in segments or halves, with calks D¹ D¹ D¹ D¹, holders B¹ B¹ B¹ welded or riveted to each segment or half of the shoe. C1 C1 are projections turned up, through which the screw-bolt F<sup>1</sup> passes and screws, and prevents the heels of the shoe from spreading when it is affixed on the hoof.  $g^1$  is a rivet, and unites the two segments or halves of the shoe in a hinge-joint,  $E^1$ . Fig. 2,  $A^2$  Are the segments;  $B^2$   $B^2$   $B^2$ ,

I the holders;  $D^2$   $D^2$   $D^2$ , the calks;  $E^2$ , the hingedjoint; F2, the screw-bolt, which contracts the heels of the shoes, and secures the shoe to the hoof by means of the holders.  $g^2$  is a rivet, the fulcrum of the joint E2.

The within-described horseshoe being constructed in two parts, with holders and calks riveted or welded, as shown and described, and the two parts being connected together in a hinged joint at the toe of the shoe, as also shown and described, the novelty of affixing it to the hoof will be apparent without further specification.

I claim-

The upturned ends C1 C1 of the shoe A1 A1, the holders B1 B1 B1 B1, the long-faced calks D1 D1, all constructed as set forth, for the purpose specified.

ELISHA M. BUMPUS.

Witnesses: JAMES RUGGLES, JOHN H. THYNG.