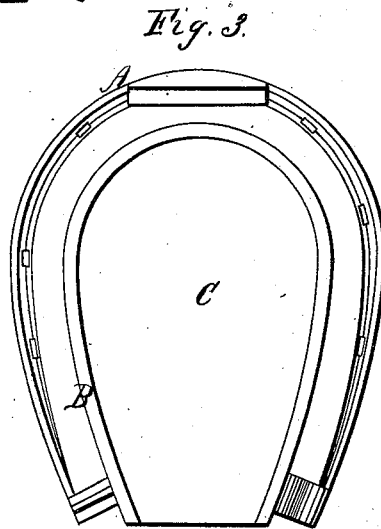
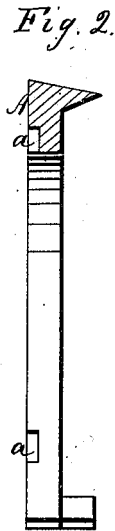
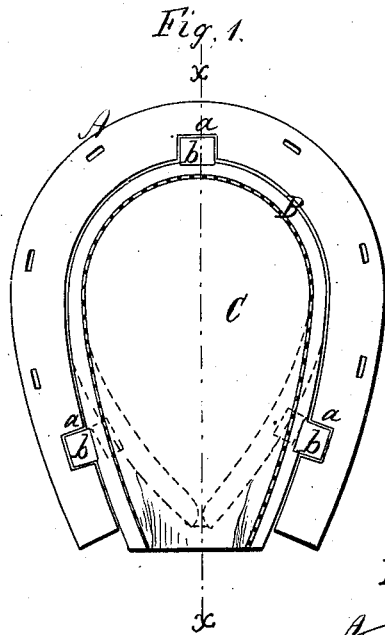


A. H. Knapp,
Horseshoe Attachment.
N^o 55,119. Patented May 29, 1866.



Witnesses;

J. B. Carington
William Spurr

Inventor;

A. H. Knapp
Per Munn & Co
Attorneys

UNITED STATES PATENT OFFICE.

A. H. KNAPP, OF COXSACKIE, NEW YORK.

IMPROVEMENT IN ATTACHING SOLES TO HORSESHOES.

Specification forming part of Letters Patent No. 55,119, dated May 29, 1866.

To all whom it may concern:

Be it known that I, A. H. KNAPP, of Coxsackie, Greenecounty, State of New York, have invented a new and useful Attachment for Horseshoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan or top view of a horseshoe with my improvement applied to it; Fig. 2, a side sectional view of the same, taken in the line *x x*, Fig. 1; Fig. 3, a bottom view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and useful attachment for horseshoes, whereby stones, gravel, and other substances are prevented from entering the space between the rear part of the shoe and the hoof, and the latter also prevented from "balling," as it is technically termed, when the horse is driven over snow.

The invention consists in having a piece of leather, india-rubber, or other suitable flexible or elastic material attached to a spring of such a form that it may be inserted in the bottom of the hoof, and be secured within the shoe in such a manner that the leather or other material used will completely cover the bottom of the hoof, the spring being so arranged that it may be applied to the shoe and detached therefrom when the latter is secured to the hoof.

A represents a horseshoe, which may be constructed in the usual manner, with the exception that it has three recesses, *a*, made in its upper surface, as shown in Figs. 1 and 2.

B is a spring, which may be constructed of steel, and of such a form that it may be compressed so as to be passed within the shoe, and then expand so as to press snugly against the inner side of the same. This spring has three lips, *b*, projecting from it, to fit in the recesses *a* in the upper surface of the shoe, said lips retaining the spring in place. (See Fig. 1.)

C is a piece of leather, india-rubber, or other suitable flexible or elastic material, which is cut to conform to the shape of the bottom of the hoof, and has its edge attached to the spring turned over and stitched, so as to inclose the same. This leather C, when the spring is fitted within the shoe, covers the bottom of the hoof and effectually prevents the latter from balling up with snow, and also prevents gravel, small stones, or other substances lodging between the rear part of the shoe and the hoof. The spring and hoof-covering may be applied at any time, and also detached by simply raising the horse's foot. The spring being compressed near its end may be readily inserted into the shoe and detached therefrom.

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

The combination of the spring-frame B, lips *b*, and web C, applied relatively with the recessed shoe A in the manner and for the purpose herein specified.

The above specification of my invention signed by me this 9th day of January, 1866.

A. H. KNAPP.

Witnesses:

M. M. LIVINGSTON,
ALEX. F. ROBERTS.