O. P. Macgill,

Horseshoe.

No. 47,242. Patented Apr. 11, 1865

Fig: 1.

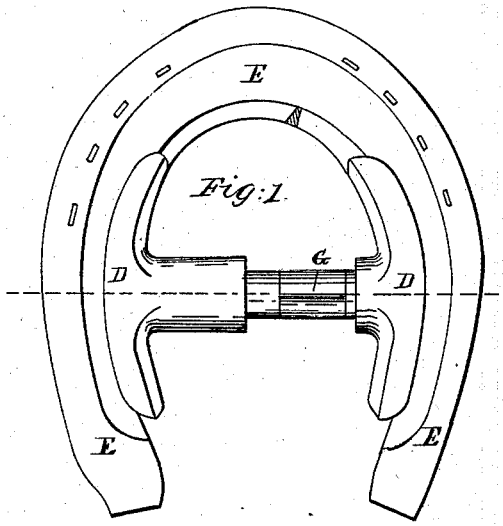


Fig: 2.

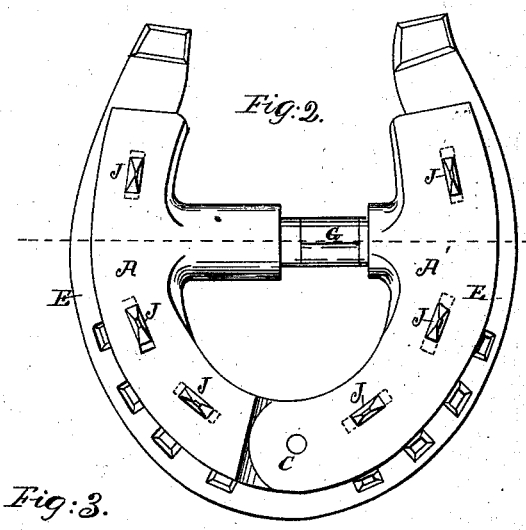
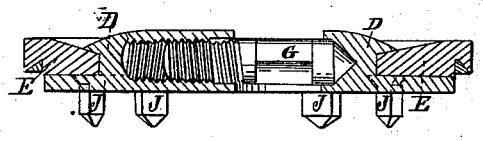


Fig: 3.



Witnesses:
C. D. Smith.
Alex. A. C. Hanckel.

Inventor:
O. P. Macgill
By Munn & Co
Attorneys.

UNITED STATES PATENT OFFICE.

OLIVER P. MACGILL, OF BROOKLANDVILLE, ASSIGNOR TO HIMSELF AND THOS. POULTNEY, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN HORSESHOES.

Specification forming part of Letters Patent No. **47,242**, dated April 11, 1865.

To all whom it may concern:

Be it known that I, OLIVER P. MACGILL, of Brooklandville, in the county of Baltimore and 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 of the same, reference being had to the annexed drawings, making part of this specification, in which—

Figure 1 is a plan view from above, showing the surface presented to the sole of the hoof. Fig. 2 is a view of the under side—that surface presented to the ground. Fig. 3 is a section on the lines *x x*, Figs. 1 or 2.

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

The object of my improvement is to provide an attachment for horses' shoes which may be readily attached and removed, serving while on as a rough shoe to prevent slipping on ice or other smooth surface, and also so arranged that the ice-points may be renewed as required without any special manipulation of the main portion of the device.

To enable others skilled in the art to which my invention appertains to fully understand and use the same, I will proceed to describe its construction and operation.

The device consists of a hinged frame consisting of two portions, A A′, united by a rivet at C, and having on their upper sides (when in use) certain flanges, D, whose edges point outwardly and embrace the thin inner perimeter of the bar of the shoe E. The means by which this expansive and contractile action is secured is a screw, G, which bears against the lugs H H on the heel end of the frame-pieces A A′, one end of the screw bearing in a socket, and the other threaded end engaging the screw in the other piece of the frame.

I I are holes through the plates A A′, through which are passed pointed steel plugs or ice-calks J J, whose enlarged heads abut against the lower side of the iron shoe when in working position. These are readily placed, removed, or sharpened, and afford a firm tread, as they pierce the ice on which the animal is traveling.

The apparatus has been tried with full success, and may be readily attached or removed, according to the varying requirements of a changeable climate, and is calculated to save a good deal of expense in roughing horses, injury to their hoofs by frequent driving of nails, and, what is generally worse than the actual cost of shoeing, the delay that attends the shoeing of the animals when a sudden cold spell assembles the horses of a neighborhood at the blacksmith's shop. The foot of the animal being held up, the jointed frame is partially closed, the flanges are made to embrace the inner edge of the shoe, and the screw being rotated the parts of the jointed frame are expanded and firmly clasp the shoe. It may be removed when the animal is brought to the stable, and laid away until the exigencies of the service or the character of the road necessitates its use, and when the animal is at rest or at pasture do not afford the means of such severe injury to other animals by kicking as is afforded by the ordinary shoe with its toe and heel calks attached to and forming a part of the shoe.

Having thus fully, clearly, and exactly described the nature, construction, and operation of my invention, what I claim therein as new, and desire to secure by Letters Patent, is—

1. The expanding frame to be attached to the horseshoe, and provided with calk points or edges, substantially as described.

2. The removable "roughing points" or calks passing through the frame, and resting at their upper ends (*in situ*) upon the under side of the horse's shoe.

3. The method of securing the false shoes to the ordinary shoe by means of the flanges on the expanding bars of the false shoe.

4. The expanding false shoe, consisting of two parts hinged together and provided with the expanding screw, substantially as described.

To the above specification of my improvement in horseshoes I have signed my hand this 14th day of February, 1865.

O. P. MACGILL.

Witnesses:
EDWARD H. KNIGHT,
CHARLES D. SMITH.