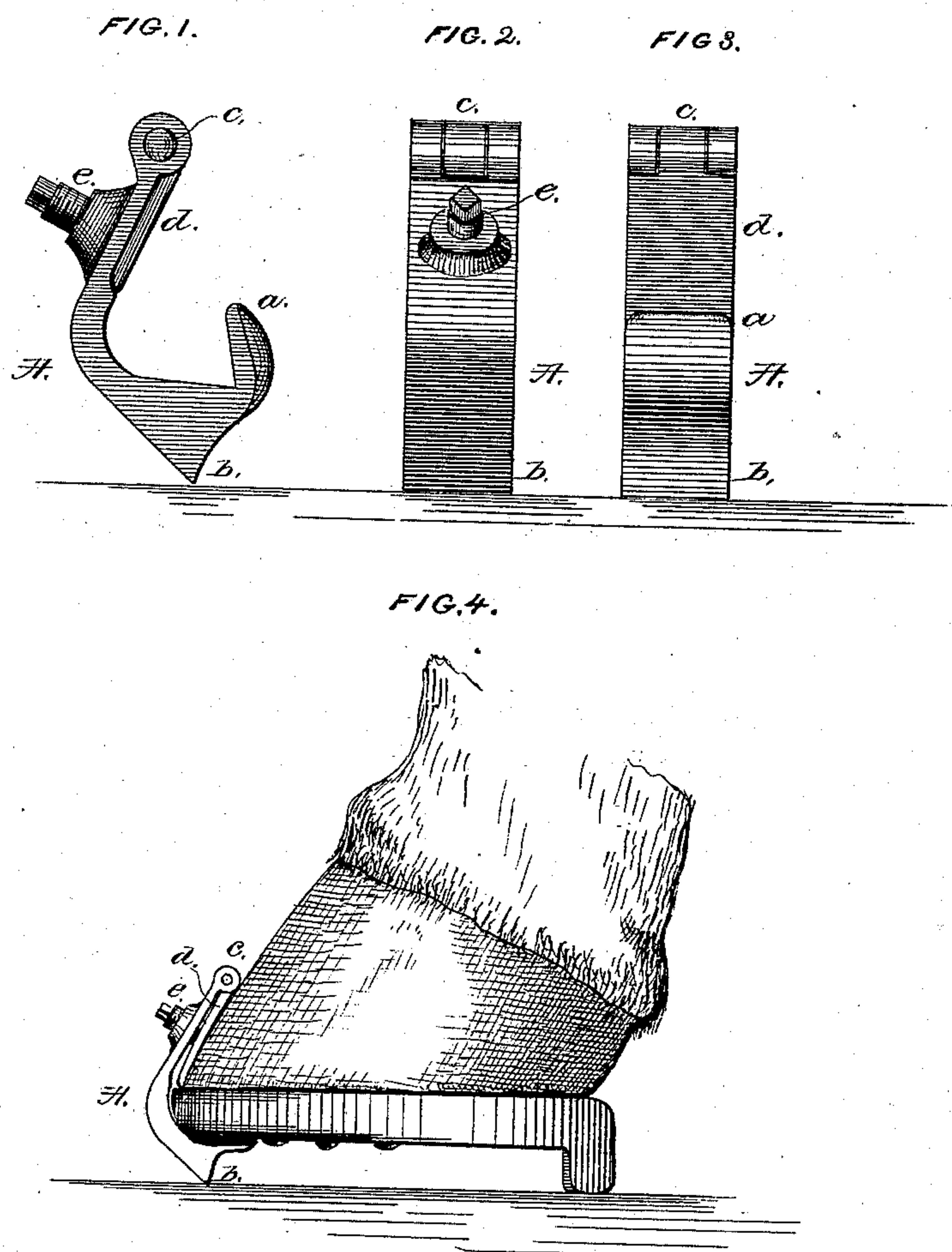


H. DIETRICH.  
Horseshoe-Calk.

No. 217,451.

Patented July 15, 1879.



Witnesses:  
Aug. M. Panner  
Prof. Darby

Inventor:  
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# UNITED STATES PATENT OFFICE.

HERMANN DIETRICH, OF POTSDAM, PRUSSIA, GERMANY.

## IMPROVEMENT IN HORSESHOE-CALKS.

Specification forming part of Letters Patent No. **217,451**, dated July 15, 1879; application filed February 8, 1879; patented in Germany October 3, 1877.

*To all whom it may concern:*

Be it known that I, HERMANN DIETRICH, of the city of Potsdam, in the Kingdom of Prussia, German Empire, have invented a new and useful Improvement in Adjustable Ice-Calks, to be clamped both to the shoes and hoofs of horses, &c., of which the following is a specification.

The present invention relates to an attachable ice-calk for horseshoes, which can be readily and securely clamped to the shoe and hoof of a horse.

All previous methods of sharpening horseshoes known to the public consist in driving pointed nails into the shoes, sharpening permanent calks, and applying detachable calks to a shoe of a special construction. All these methods have been found objectionable, however, for various reasons, the chief of which are the necessity of removal of the shoe for sharpening the permanent calks, the extra expense of constructing a shoe adapted to receive detachable calks fitted only to the shoe, and the liability of the pointed nails to wear away in a very brief time. By the present invention I avoid all these objections, and provide a calk which can be applied to the toe portion of an ordinary shoe, and be secured both to the shoe and the hoof in a simple and satisfactory manner.

The invention consists in the construction hereinafter specified and claimed.

In the accompanying drawings, forming part of this specification, Figure 1 is a side view of an attachable toe-calk constructed according to my invention. Figs. 2 and 3, respectively, are front and rear views thereof. Fig. 4 shows the calk applied to a shoe and hoof.

The calk A is provided with an upper bar portion, which is curved or inclined to conform to the contour of the hoof; and it is further provided with the sharpened lower

portion, *b*, and the short upwardly-projecting rear arm or lug, *a*.

At the inner side of the bar portion of the calk is located a plate, *d*, made slightly convex on its rear surface, and connected with said bar by a hinge-joint, *c*, at its upper end.

A set-screw, *e*, passes through a screw-threaded boss and opening in the curved bar of the calk, and bears against the hinged plate.

In order to attach the calk, the short inner arm or lug, *a*, is fitted to the inner edge of the shoe, thus causing the long outer or main bar or arm to project upwardly in front of the hoof.

By turning the set-screw in a proper direction through the medium of a suitable key, the hinged plate will be caused to bear upon the hoof, exerting sufficient pressure to retain the calk in position, it being apparent that the rear lug or arm of the calk will also be firmly pressed against the shoe.

An ice-calk of the construction specified can be applied to an ordinary shoe by any person, and, being clamped to the hoof and shoe in a secure and perfect manner, cannot drop off when in use.

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

The attachable horseshoe-calk herein described, consisting of a front bar, a sharpened base, a short rear arm or lug, a hinged clamping-plate located at the rear side of the front bar, and a set or adjusting screw, as and for the object stated.

In testimony whereof I have hereunto set my name in the presence of two subscribing witnesses.

HERMANN DIETRICH.

Witnesses:

BERTHOLD ROI,  
EDWARD P. MACLEAN.