

A. M. H. DE BRUYCKER.
HORSESHOE.
APPLICATION FILED FEB. 20, 1912.

1,030,168.

Patented June 18, 1912.

Fig. 1.

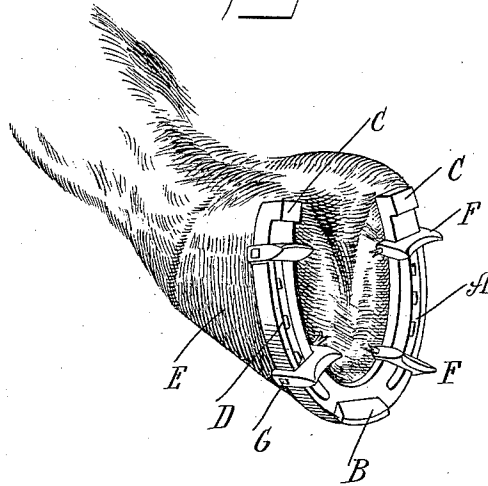


Fig. 2.

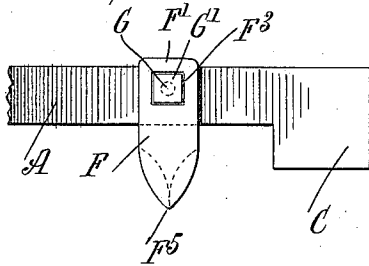


Fig. 3.

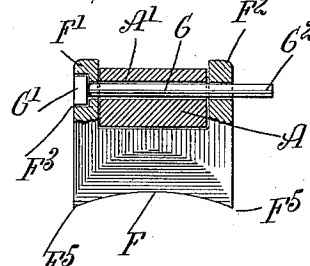
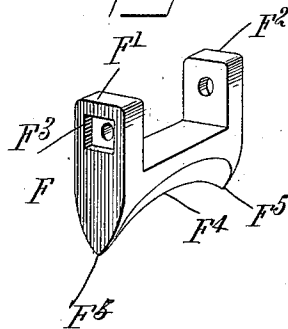


Fig. 4.



WITNESSES

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HORSESHOE.

1,030,168.

Specification of Letters Patent.

Patented June 18, 1912.

Application filed February 20, 1912. Serial No. 678,754.

To all whom it may concern:

Be it known that I, AUGUST M. H. DE BRUYCKER, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Horseshoe, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved horseshoe provided with detachable anti-slipping devices to permit the horse to obtain a sure foothold especially when going over icy roads, slippery pavements and the like.

For the purpose mentioned, use is made of anti-slipping calks extending transversely across the under side of the shoe and having upwardly-extending lugs engaging the outer and inner sides of the shoe, and transverse fastening pins extending through the said lugs and through the shoe to fasten the calks in place.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the horseshoe as applied to a horse's hoof; Fig. 2 is an enlarged side elevation of part of the shoe and one of the calks; Fig. 3 is a transverse section of the same; and Fig. 4 is a perspective view of one of the anti-slipping calks.

The ordinary horseshoe A, as shown in Fig. 1, is provided with the usual toe calk B and the heel calk C, and the shoe A is adapted to be fastened by the usual nails D to the horse's hoof E. The horseshoe A is provided with anti-slipping calks F, preferably four in number, that is, two on each side, as plainly indicated in Fig. 1, and each calk F extends transversely on the under side of the shoe and is provided with upwardly-extending lugs F', F² fitting against the outer and inner sides of the shoe. The lugs F' and F² of each calk F are apertured for the reception of a fastening pin G which also passes transversely through an aperture A' formed in the shoe A and registering with apertures in the lugs F' and F². The pin G is preferably provided with a head G' engaging a counter-sink F³ in the outer face of the lug F' and the end G² of each pin G extends beyond the lug

F² and is split to permit of bending the split members in opposite directions so as to hold the pin G against removal, thus fastening the corresponding calk F securely in position on the shoe A. Each of the calks F is provided at its under side with a transversely-extending concave cutting edge F⁴ terminating in points F⁵ at the sides of each calk so that the calk readily cuts into the ice to enable the horse to obtain a sure foothold and thus prevent the horse from slipping.

It is understood that in order to provide the cutting edge F⁴ and the points F⁵ the lower portion of each calk F is beveled at the front and rear and concaved at the under side so as to produce the cutting edge F⁴ and the points F⁵. It will be noticed that in case the points F⁵ become dull in the course of wear the cutting edge F⁴ still prevails to enable the animal to obtain a sure foothold on icy roads or slippery pavements.

As each calk F fits snugly on the under side of the shoe, it is held against lengthwise movement on the shoe, and by having the lugs F', F² straddling the shoe the calk is held securely against transverse movement and comparatively little strain is had on the pins G.

It will be noticed that when it is desired to remove the calks F from the shoe it is only necessary to bend the split members of the end G² of a pin G back to straight position to allow removal of the pin G and detachment of the calk F from the shoe A.

The horseshoe A provided with the anti-slipping calks is very simple and the arrangement is such that a driver can readily place the calks in position on the shoe and remove the same therefrom without the aid of a skilled mechanic.

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

1. A horseshoe provided with detachable anti-slipping calks extending transversely on the under side of the shoe, each calk being provided with upwardly-extending lugs fitting against the outer and inner sides of the shoe and each calk being concave at the under side and beveled to form transversely-extending cutting edges terminating in points, and fastening devices engaging the said lugs and the shoe to fasten the calks in place on the shoe.

2. A horseshoe provided with transversely-extending apertures, detachable anti-slipping calks extending transversely on the under side of the shoe and having upwardly-
5 extending apertured lugs fitting against the outer and inner sides of the shoe, the lugs of each calk being provided with apertures in register with a corresponding aperture in the shoe and the aperture in the outer lug
10 being countersunk, and fastening pins engaging the horseshoe apertures and the apertures in the calk lugs, each fastening pin having a head at its outer end seated in the corresponding countersink of the aperture
15 in the outer lug and the inner end of the pin being split to permit of spreading the split members to hold the pin in place.

3. A horseshoe provided with transversely-extending apertures, and detachable

anti-slipping calks extending transversely 20 on the under side of the shoe and having upwardly-extending apertured lugs fitting against the outer and inner sides of the shoe, the calks being concave at the under side and beveled to form transversely-ex- 25 tending concave cutting edges terminating in points at the outer and inner sides of the calks and cross pins engaging the said horseshoe apertures and the said apertured lugs for fastening the calks in place on the shoe. 30

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

AUGUST M. H. DE BRUYCKER.

Witnesses:

THOMAS CONNOR,
GEO. A. MAGUIRE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
