

No. 619,995

Patented Feb. 21, 1899.

C. RICHTER.
HORSHOE CALK.

(Application filed Sept. 11, 1897.)

(No Model.)

Fig. 1

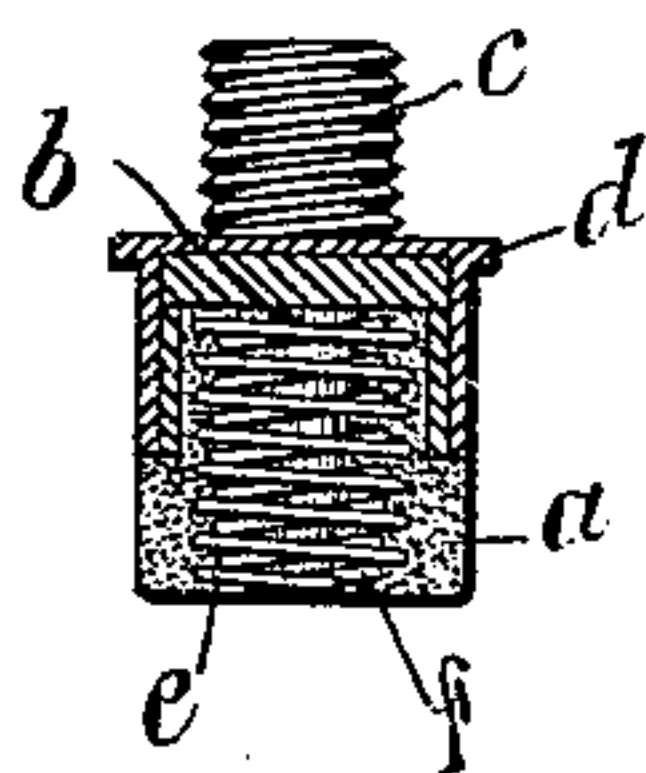


Fig. 2.

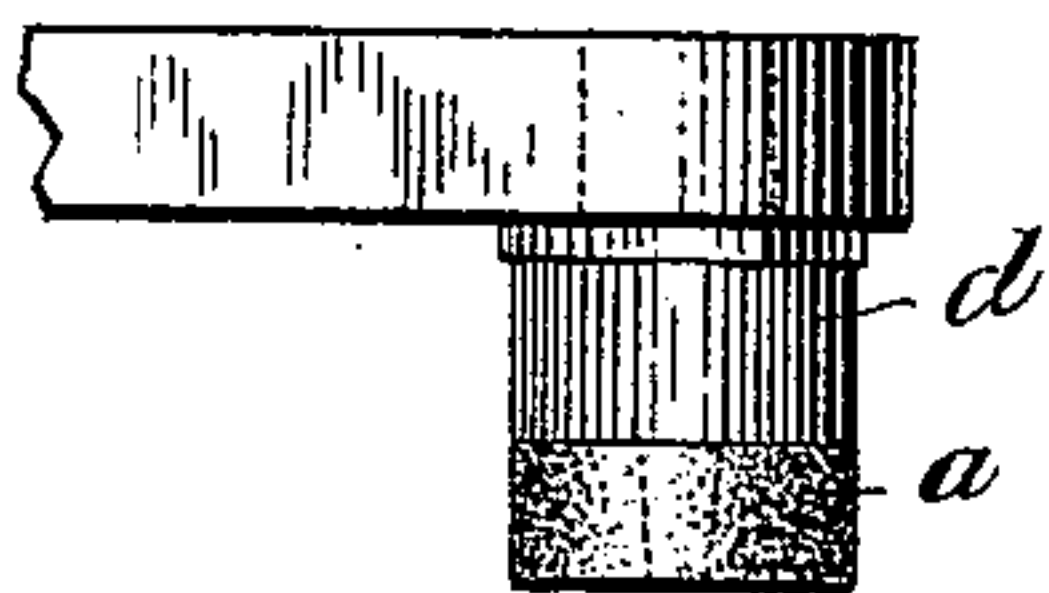
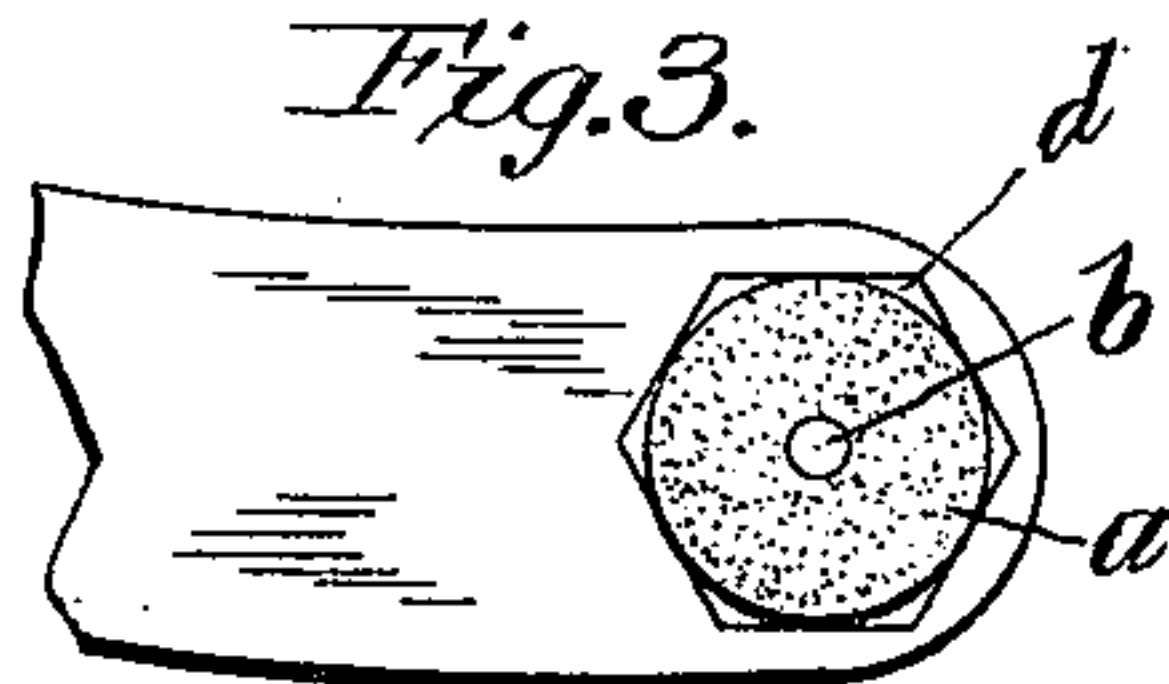


Fig. 3.



WITNESSES:

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CARL RICHTER, OF Breslau, GERMANY.

HORSESHOE-CALK.

SPECIFICATION forming part of Letters Patent No. 619,995, dated February 21, 1899.

Application filed September 11, 1897. Serial No. 651,298. (No model.)

To all whom it may concern:

Be it known that I, CARL RICHTER, of Breslau, in the Kingdom of Prussia, Germany, have invented a new and useful Elastic Calking for
5 Horseshoes, (for which I have obtained Letters Patent in the following countries: Germany, No. 86,557, dated April 12, 1895; Austria, No. 46,355, dated January 15, 1896; France, No. 250,711, dated October 3, 1895; England, No.
10 1,235, dated January 17, 1896, and Hungary, No. 5,460, dated January 17, 1896,) of which the following is a specification, reference being had therein to the accompanying drawings.

The object of this invention consists of a
15 device to be attached to horses' shoes for the purpose of providing an elastic shockless step when running lightly, which with horses having diseased hoofs is of great advantage, and to furnish security against slipping when on
20 slippery roads or pulling heavy weights.

The properties of this device are apparent upon the accompanying drawings.

Figure 1 is a vertical section of the calking.
Fig. 2 is a side view of the calk applied, and
25 Fig. 3 is a bottom end view of the same.

As can be seen from Fig. 1, the device consists of a metal case *d*, provided with a screw projection *c*, which serves for the purpose of attaching the device to the shoe. Within
30 this metal case *d* an elastic pad *a*, of rubber, leather, or similar material, is secured, which is strengthened by two oppositely-wound springs *e* and *f*. The case *d* is so shaped that

it can be screwed onto the shoe by means of a wrench without trouble. This case also carries a central pin *b*, the length of which is such that the end of the same terminates within the elastic pad when the shoe is not upon the ground or but lightly in contact therewith. As soon, however, as the horse
40 steps more heavily the pad is compressed, and the pin *b* consequently projects below the same, by which means the horse obtains the necessary hold.

The advantage of this invention is in the
45 first place that an elastic shockless step is insured for the horse, thus considerably protecting the latter, whereas, secondly, by means of the central pin *b* perfect security against slipping is obtained upon the exercise of great
50 force or when running upon slippery roads.

What I claim, and desire to secure by Letters Patent of the United States, is—

A calking for horseshoes, consisting of the combination of a casing *d* provided with a
55 screw projection *c*, with a central pin *b*, an elastic pad partially inclosed by said casing *d*, and spiral springs *e* and *f* which surround the pin *b*, substantially as described.

In witness whereof I have hereunto set my
60 hand in presence of two witnesses.

CARL RICHTER.

Witnesses:

W. KOCH,
ERNST KOTZ.