No. 844,121. PATENTED FEB. 12, 1907.

R. N. GOODWIN.

HORSESHOE CALK.

APPLICATION FILED APR. 14, 1906.

Fig. 1.

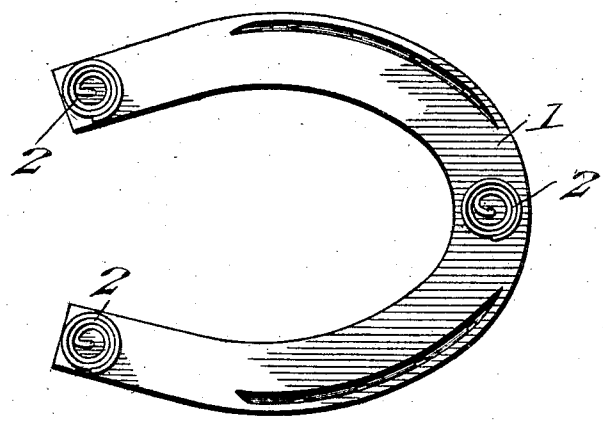


Fig. 2.

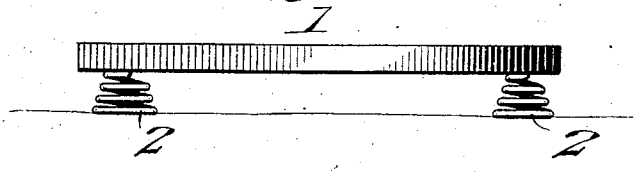
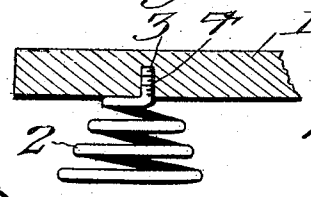


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

RICHARD N. GOODWIN, OF WICHITA, KANSAS, ASSIGNOR, BY MESNE ASSIGNMENTS, OF ONE-HALF TO CHARLES W. SNYDER, OF WICHITA, KANSAS.

HORSESHOE-CALK.

No. 844,121. Specification of Letters Patent. Patented Feb. 12, 1907.

Application filed April 14, 1906. Serial No. 311,726.

To all whom it may concern:

Be it known that I, RICHARD N. GOODWIN, a citizen of the United States, residing at Wichita, in the county of Sedgwick and State of Kansas, have invented new and useful Improvements in Horseshoe-Calks, of which the following is a specification.

My invention relates to horseshoe-calks; and its primary object is to provide a coiled-spring calk which is adapted to take up and dissipate jars resulting from the impact of a horse's feet with the roadway and which is adapted to engage firmly with the roadway to prevent the horse from slipping.

A further object of the invention is to provide a calk which may be easily and quickly applied to and removed from any construction of shoe, one which is simple and durable, and one which may be manufactured and sold at a comparatively low cost.

The invention consists in the construction, combination, and arrangement of parts hereinafter fully described, and illustrated in the accompanying drawings, wherein—

Figure 1 is a bottom plan view of a horseshoe provided with my improved calks. Fig. 2 is view in side elevation thereof; and Fig. 3 is a central longitudinal section of one of the heel portions of the shoe, illustrating the manner in which the calk is applied.

Referring to the drawings by reference-numerals, 1 designates a horseshoe of the usual construction and form, and 2 my improved calks secured to the heel and toe portions thereof. The calks consists of spirally-coiled springs having the under surfaces of their convolutions roughened. The convolutions of the calk have such relative diameters that they are adapted to fit one within the other and occupy a common plane when the calks are compressed, whereby to provide roughened treads. The ends of the uppermost and smallest convolutions of the calks are disposed vertically and centrally and threaded to provide attaching elements 3. The threaded attaching elements 3 are adapted to engage in threaded sockets 4, located in the under surface of the shoe 1.

It should be apparent from the above description, taken in connection with the accompanying drawings, that the calks are adapted to take up and dissipate all shock resulting from the impact of the horse's feet with a roadway and prevent the shocks thus occasioned from being carried to and injuring the limbs of the horse. It also should be apparent that as each convolution of the calks engages the roadway the horse is thereby prevented from slipping. When the under surfaces of the convolutions wear smooth, the same may be again roughened by means of a file.

Having fully described and illustrated my invention, what I claim is—

1. The combination with a horseshoe, of a spirally-formed spring-calk adapted to be secured to the shoe and having the under surfaces of its convolutions roughened, the convolutions being adapted to occupy a common plane to provide a roughened tread when the calk is compressed.

2. The combination with a horseshoe, of a spirally-formed spring-calk having the under surfaces of its convolutions roughened, the convolutions being adapted to fit one within the other and occupy a common plane to provide a roughened tread when the calk is compressed.

3. The combination with a horseshoe provided with a threaded socket, of a spirally-formed spring-calk having the under surfaces of its convolutions roughened, the convolutions being adapted to occupy a common plane to provide a roughened tread when the calk is compressed, the extremity of the uppermost convolution being projected centrally and vertically and threaded for engagement in the socket of the shoe.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD N. GOODWIN.

Witnesses:
FRANK BASHORE,
CHARLES LANTZ.