

No. 810,849.

PATENTED JAN. 23, 1906.

F. EGGER.  
NAILLESS HORSESHOE.  
APPLICATION FILED SEPT. 30, 1905.

FIG. 1.

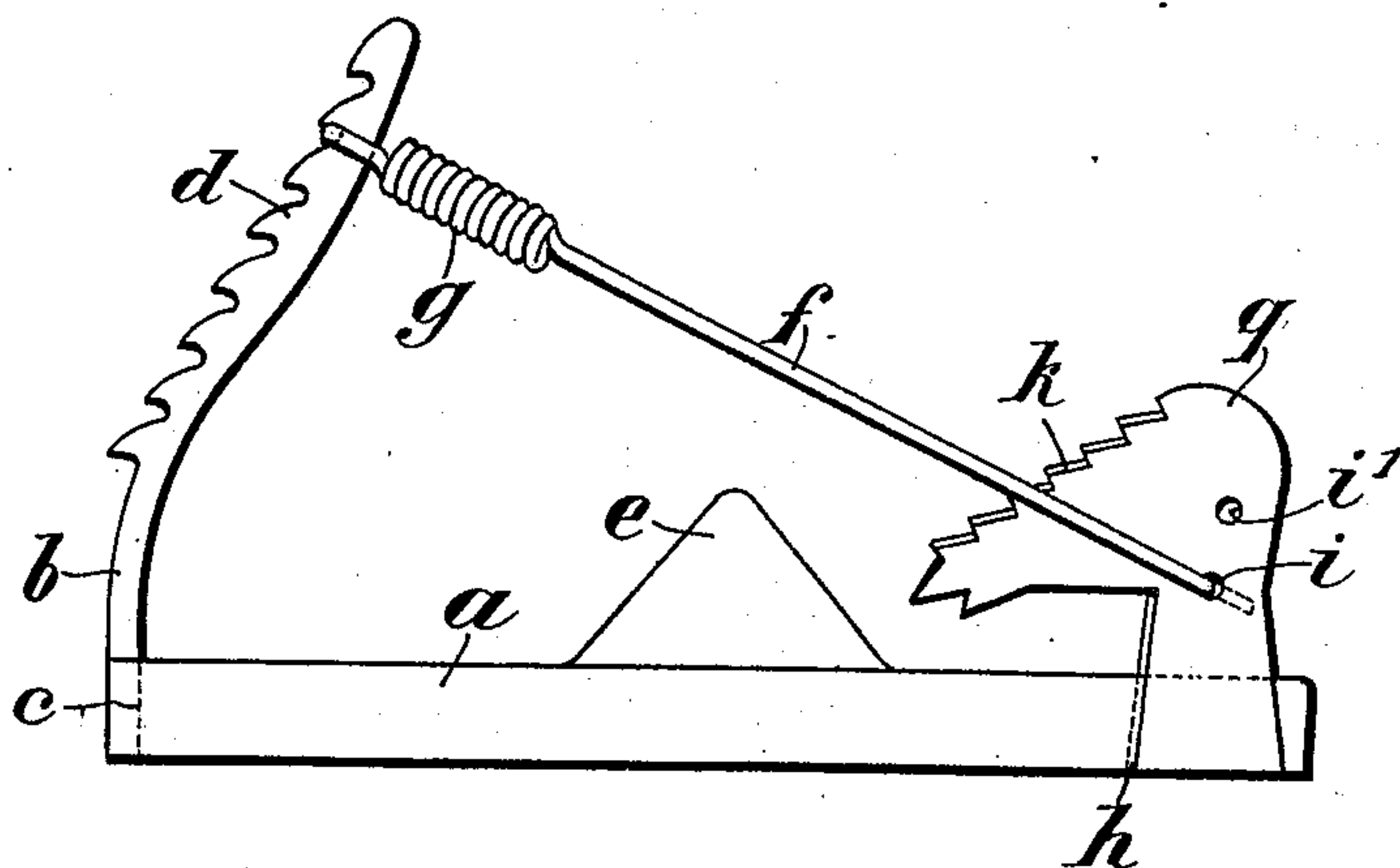
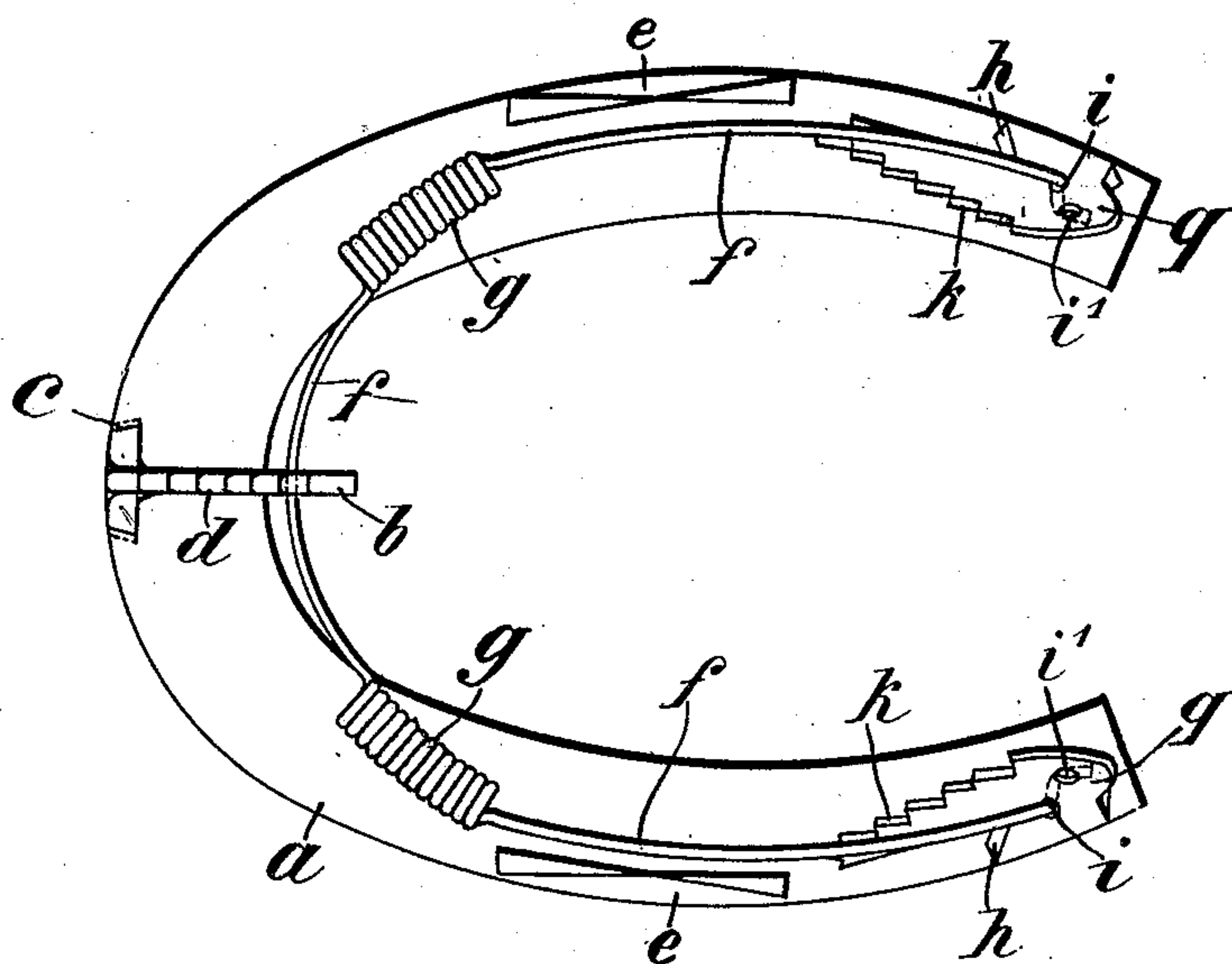


FIG. 2.



Witnesses:

*S. H. Gliman*  
*A. H. Rose*

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Fritz Egger

by *Henry Combs*  
Attorney

# UNITED STATES PATENT OFFICE.

FRITZ EGGER, OF SOLOTHURN, SWITZERLAND.

## NAILLESS HORSESHOE.

No. 810,849.

Specification of Letters Patent.

Patented Jan. 23, 1906.

Application filed September 30, 1905. Serial No. 280,809.

*To all whom it may concern:*

Be it known that I, FRITZ EGGER, a citizen of the Swiss Republic, and a resident of Solothurn, Switzerland, have invented new and  
5 useful Improvements in Rivetless and Nailless Horseshoes, of which the following is a full, clear, and exact specification.

The object of the present invention is a rivetless and nailless horseshoe provided with  
10 an adjustable and easily-detachable spring-fastener having a wire strap with a certain spring action in its longitudinal direction and intended to secure the shoe firmly and adjustably to the hoof.

15 Figures 1 and 2 of the accompanying drawings show by way of example an embodiment of the invention.

The horseshoe *a* is provided with two side clips *e*, which prevent a side shifting of the shoe. The toe-clip *b*, the lower end of which enters a dovetailed tapered notch *c*, cut in the shoe, has the form of a toothed ratchet-piece *d*. The two spring heel-clips *g*, secured to the shoe in the same manner as the toe-clip *b*—  
25 that is to say, by means of a similar dovetail connection—are bent to the front at the top (in the direction of the horn tubes) and provided with locking-teeth *k*. The wire strap *f* has in its sides spirally-wound parts *g*, intended to act longitudinally like an ordinary spiral spring. Both ends of the wire strap *f* are bent a little and engage at *i* (or at *i'*) with the heel-clips *g*. At the front the wire strap is hooked in the teeth of the ratchet-piece *d*, upon which it is drawn down. The spring  
35 tension in the wire strap *f*, which can be increased or diminished, according to the strap being hooked higher or lower in the toothed ratchet-piece *d*, produces a tight engagement of the ratched toe-clip *b d*, as well as of the two  
40 spring heel-clips *g*, with the hoof. Through this kind of fastening the hoof is prevented from slipping at the front and at the back, the shoe being tightly pressed from below against

the hoof, so that the horseshoe can shift or 45 slip in neither direction.

What I claim is—

1. In a rivetless and nailless horseshoe, the combination with the shoe of a ratched toe-clip, two toothed spring heel-clips and a fastening wire strap adapted to be hooked by  
50 its front portion in the ratched toe-clip and having in its sides spirally-wound parts intended to give rise to a spring action, so as to firmly and adjustably secure the shoe to the  
55 hoof, substantially as described.

2. In a rivetless and nailless horseshoe, the combination with the shoe of a ratched toe-clip entering a dovetailed tapered notch of the shoe, two toothed spring heel-clips se-  
60 cured to the latter by means of a similar dovetail connection and a fastening wire strap adapted to be hooked by its front portion in the ratched toe-clip and having in its sides  
65 spirally-wound parts intended to give rise to a spring action, so as to firmly and adjustably secure the shoe to the hoof, substantially as described.

3. In a rivetless and nailless horseshoe, the combination with the shoe of a ratched toe-clip entering a dovetailed tapered notch of the shoe, two toothed spring heel-clips se-  
70 cured to the latter by means of a similar dovetail connection and a fastening wire strap adapted to be hooked by its front portion in the ratched toe-clip and having in its sides  
75 spirally-wound parts intended to give rise to a spring action, so as to firmly and adjustably secure the shoe to the hoof, the said wire strap having its ends engaged with the afore-  
80 said two heel-clips, substantially as described.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

FRITZ EGGER.

Witnesses:

GEO. GIFFORD,  
AMAND BRAUN.