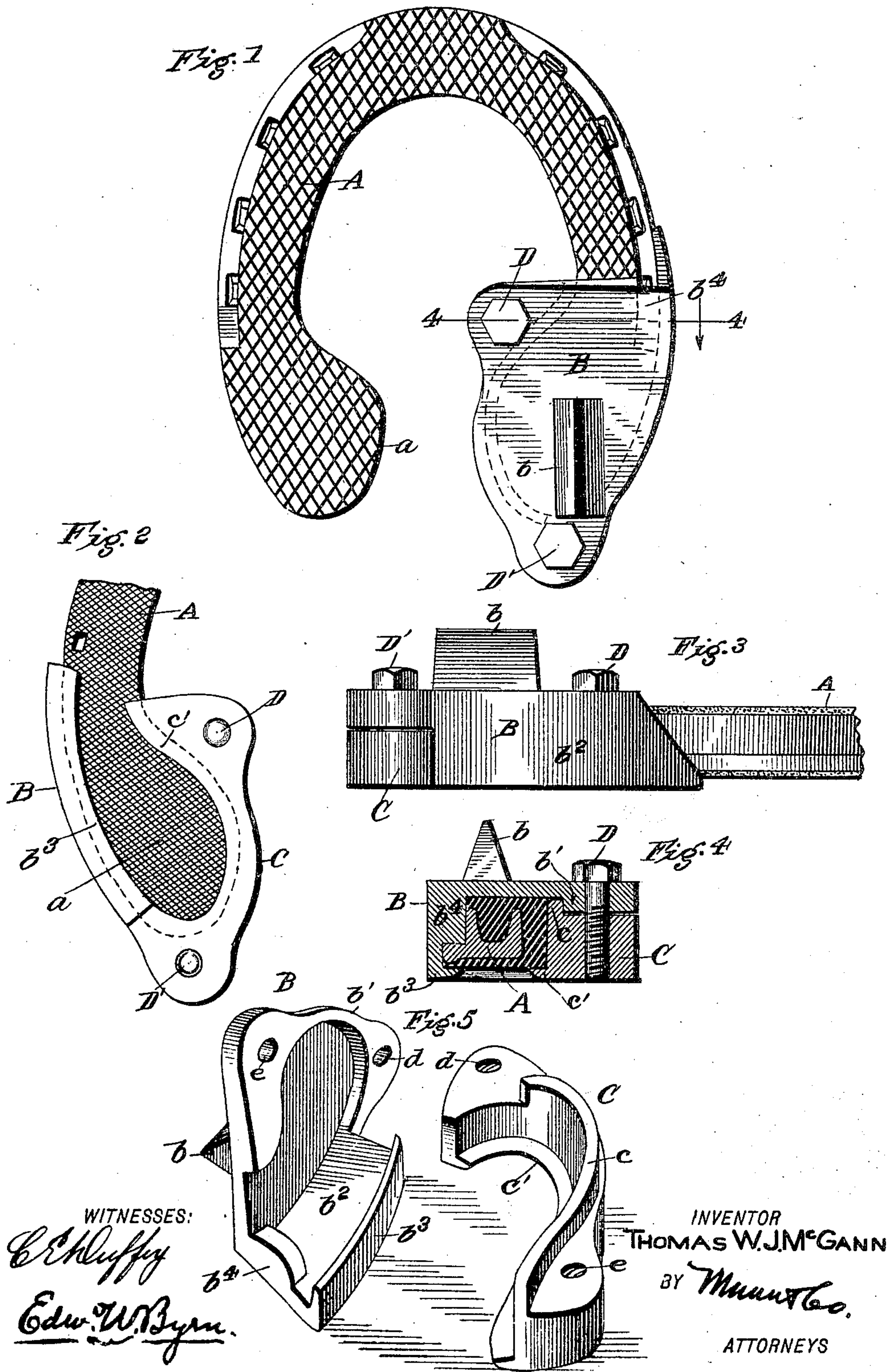


No. 817,585.

PATENTED APR. 10, 1906.

T. W. J. MCGANN.  
DETACHABLE HEEL CALK FOR HORSESHOES.

APPLICATION FILED JAN. 5, 1906.





# UNITED STATES PATENT OFFICE.

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## DETACHABLE HEEL-CALK FOR HORSESHOES.

No. 817,585.

Specification of Letters Patent.

Patented April 10, 1906.

Application filed January 5, 1906. Serial No. 294,746.

*To all whom it may concern:*

Be it known that I, THOMAS W. J. MCGANN, a citizen of the United States, residing at Washington city, in the District of Columbia, have invented a new and useful Improvement in Detachable Heel-Calks for Horseshoes, of which the following is a specification.

My invention relates to detachable heel-calks for horseshoes of that form in which the heels of the shoe are enlarged laterally at the ends. This form of heel is common in shoes of a composite character in which a skeleton iron shoe is embedded in an elastic rubber mat.

My invention consists in a novel form of detachable heel-calk applicable to heels of this character, so that horses shod with this shoe may be provided with heel-calks by any one without sending the horse to the shop, as hereinafter fully described with reference to the drawings, in which—

Figure 1 is an outside face view of a shoe of the kind described, having one of its heels equipped with my detachable calk. Fig. 2 is an inside face view of one of the heels so equipped. Fig. 3 is a side view of the same. Fig. 4 is a cross-section of the shoe on line 4 4 of Fig. 1, and Fig. 5 are details in perspective of the two parts of the heel-calk.

In the drawings, A represents a horseshoe of the kind to which my heel-calk is to be applied. This is a composite shoe having a skeleton metal frame embedded in a rubber mat. The heels of this shoe are enlarged laterally to form flat pear-shaped ends, as seen at *a*.

B and C, Fig. 5, are the two parts of my heel-calk, which when clamped upon the enlarged heels of the shoe by means of the screw-bolts D D' are securely attached thereto and form a housing or inclosure for the heels. The outer calk-plate B is formed with a chisel-shaped calk *b*, and on the inner side next to the shoe it has a recess of the shape of the shoe-heel with a slight marginal flange *b'* along the inner side and rear end and with a deep flange *b<sup>2</sup>* on the outer side. This outer flange is the full depth of the thickness of the shoe and has an inwardly-projecting lip *b<sup>3</sup>*, that catches above the upper surface of the shoe, and has a lug *b<sup>4</sup>*, that fits in an external recess of the shoe in front of the enlarged heel. The inner portion C of

the heel-calk extends around the inner and rear edges of the heel, and its inner bearing-surface has a standing flange *c*, that extends inside the inner flange of the outer plate B. The inner portion C of the heel-calk also has a marginal lip *c'*, that extends over the edge of the shoe next to the horse's hoof. Through enlarged projections on the plates B and C are formed registering holes *d d* and *e e*, through which the bolts D D' pass. These bolts have threaded ends which turn directly into screw-threads formed in the holes *d* and *e* of the inner plate C.

This form of heel-calk has a two-part seat that holds onto the heel by enveloping it on all sides and by virtue of the fact that the opening at the front of the inclosure is smaller than the cross-section of the inclosed heels, which prevents the calk from slipping backward and yet does not require any holes to be drilled through the shoe or the latter otherwise prepared for the calk.

In carrying out my invention I do not confine myself to the exact construction and arrangement of parts shown and described, as these may be varied without departing from my invention as set forth in the claims.

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

1. A heel-calk adapted for a horseshoe having a laterally-enlarged heel and consisting of two plates forming a seat inclosing said enlarged heel, one of them bearing a calk-lug, and screws or bolts for fastening the plates together around said enlarged heel.

2. A heel-calk adapted for a horseshoe having laterally-enlarged heels and consisting of two plates one bearing a calk-lug and both recessed to form together an inclosing seat for the enlarged heel, with a relatively small outlet at the front end of the seat and screw-bolts for fastening the plates together.

3. A heel-calk adapted for a horseshoe having laterally-enlarged heels and consisting of two plates forming a seat inclosing said enlarged heel, one of them bearing a calk-lug and both having holes for screws or bolts outside of the heel-seat and clamping screws or bolts for fastening them together.

4. A heel-calk adapted for a horseshoe having laterally-enlarged heels, consisting of a plate B bearing a calk-lug, an inner flange

$b'$ , a deeper outer flange  $b^2$  with lip  $b^3$ , a plate C for the inner and rear edges of the shoe-heel having flange  $c$  and lip  $c'$ , both said plates having registering holes for screws or bolts  
5 and clamping screws or bolts passing through the same.

5. A heel-calk adapted for a horseshoe having laterally-enlarged heels, consisting of a plate B bearing a calk-lug, an inner flange  
10  $b'$ , a deeper outer flange  $b^2$  with lip  $b^3$  and a

front lug  $b^4$ , a plate C for the inner and rear edges of the shoe-heel having flange  $c$  and lip  $c'$ , both said plates having registering holes for screws or bolts and clamping screws or bolts passing through the same.

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Witnesses:

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