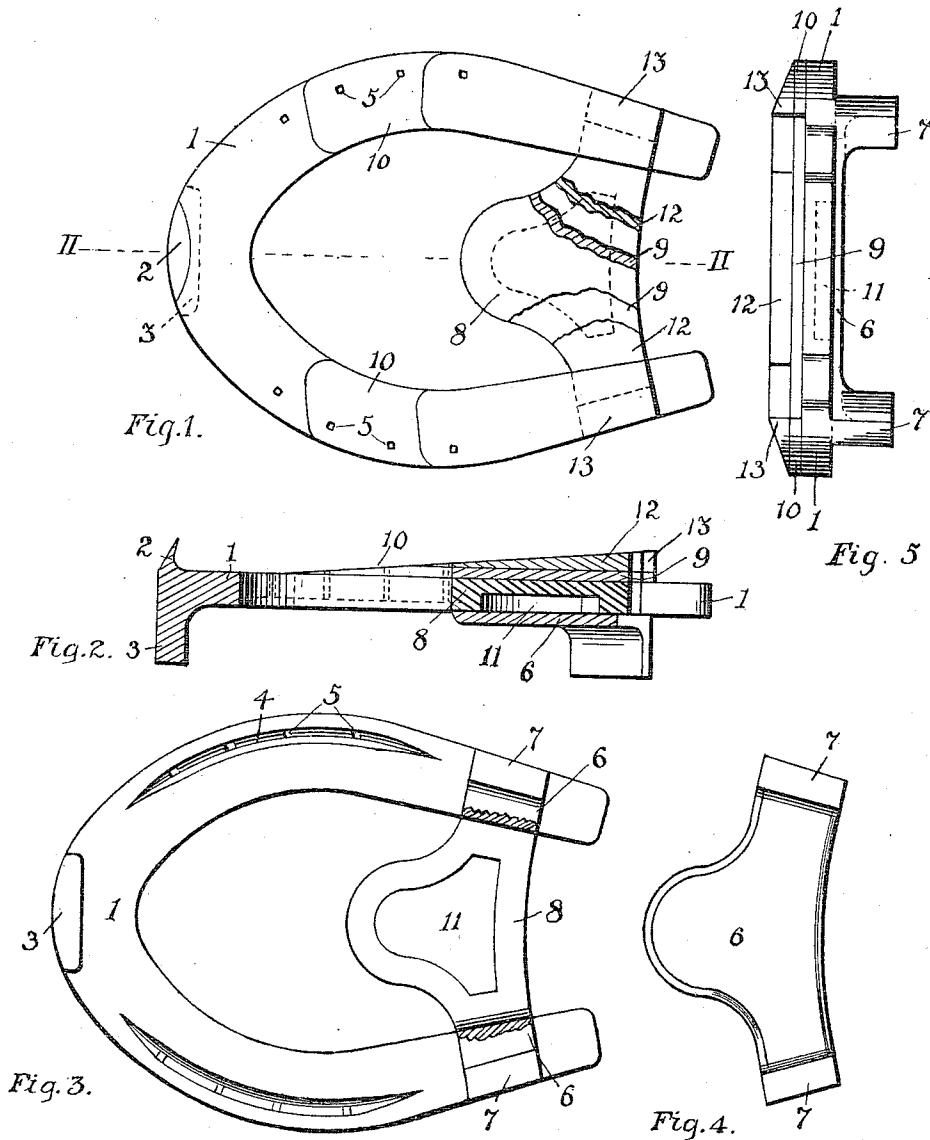


B. F. PORTER.
HOOF PAD.
APPLICATION FILED MAY 17, 1909.

964,551.

Patented July 19, 1910.



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BENJAMIN F. PORTER, OF NEW BRIGHTON, PENNSYLVANIA.

HOOF-PAD.

964,551.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BENJAMIN F. PORTER, a citizen of the United States, residing at New Brighton, in the county of Beaver and State of Pennsylvania, have invented a new and useful Improvement in Hoof-Pads, of which the following is a specification.

My invention relates to hoof-pads to be used on the hoofs of horses and other animals; and an object of the present invention is to provide a simple and efficient pad of this character adapted for use in connection with various styles and sizes of shoes.

A further object of my invention is the provision of a pad of this character embodying yielding or elastic qualities and an inclosed air-chamber designed to be located directly under the frog of the animal's hoof.

A still further object of my invention is to provide a cushioned-pad of such a character that the parts of the pad most liable to wear out are inclosed or protected.

In the accompanying drawing which illustrates an application of my invention, Figure 1 is a top plan of a horseshoe and a pad, partly broken away, embodying my invention; Fig. 2 a part sectional and a part elevational view of the same, the section being taken on line II—II of Fig. 1; Fig. 3 an inverted plan view; Fig. 4 a detail plan of the base-member of the pad; and Fig. 5 a rear end view of the shoe and pad.

Referring to the drawing, 1 designates a metallic horseshoe, and as illustrated and as preferred, the shoe is provided with a toe-guard 2, a forward calk 3 and with the usual grooves 4 and nail-openings 5.

The hoof-pad proper comprises a bottom-plate 6 preferably formed of some suitable metal and provided with calks 7. This bottom-plate extends across the rear portion of the shoe and is secured thereto by welding or brazing and is slightly elevated by the calks 7.

Located over the plate 6 and separated therefrom by yielding or elastic walls 8 is a top-member 9 preferably made of leather or other yielding material. This member 9 also extends across the heel-portion of the

shoe and comprises wings or leaf-members 10 shaped to conform with the curvature of the sides of the shoe. Plate 6, member 9 and the walls 8 are assembled to form an air-chamber 11. Air-chamber 11 lies directly under the frog of the animal's hoof and is designed to create a slight pressure on the frog when the animal's foot is on the ground for the purpose of aiding circulation in the frog and hoof.

12 designates a felt-pad placed between the frog of the hoof and the member 9.

Disposed on the respective wings or members 10 and corresponding with the width and curvature of said members, I provide a tapered resilient or rubber strip 13 each designed to be in contact with and provide a yielding support or cushion for the heel of the animal's foot.

What I claim is:

1. A hoof-pad having an air-chamber formed by a lower metallic plate-member, an upper yielding member, and elastic walls connecting the said members.

2. The combination with a horseshoe, of a hoof-pad secured to the heel of the shoe comprising an air-chamber formed by a metallic lower plate provided with calks, an upper yielding member, and elastic walls connecting the said members.

3. The combination with a shoe, of a hoof-pad secured thereto consisting of a metallic base-plate, elastic walls resting on the base-plate, a yielding cross-member disposed on the walls, said parts forming an air-chamber, and a pad on the yielding cross-member.

4. The combination with a shoe, of a hoof-pad consisting of a metallic base-plate provided with calks, elastic walls resting on the base-plate, a yielding cross-member disposed on the walls and provided with wings adapted to make contact with the shoe, elastic strips mounted on the wings, and means for securing the hoof-pad to the shoe.

BENJAMIN F. PORTER.

Witnesses:

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