

No. 734,301.

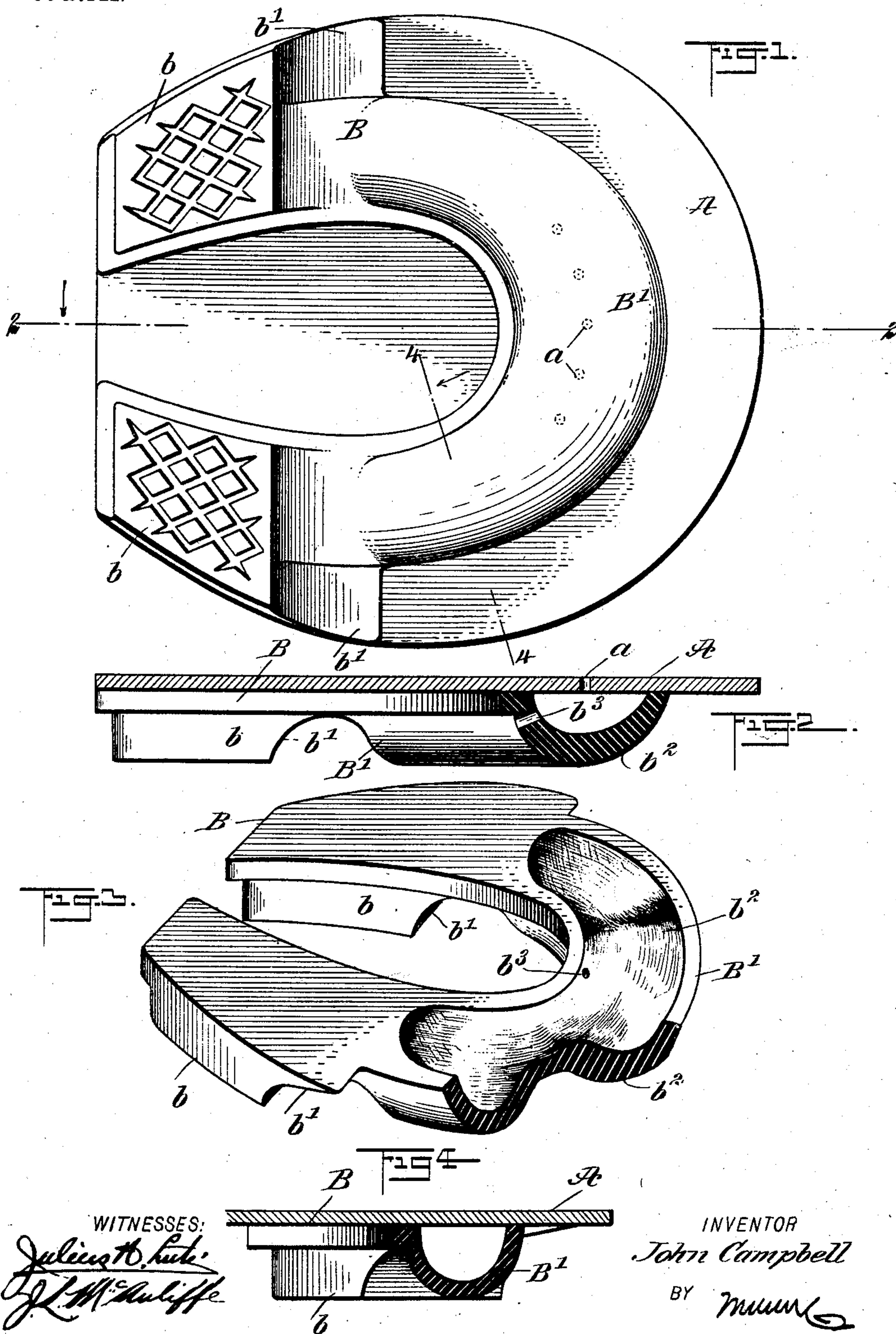
PATENTED JULY 21, 1903.

J. CAMPBELL.

HOOF PAD.

APPLICATION FILED DEC. 3, 1902.

NO MODEL.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN CAMPBELL, OF NEW YORK, N. Y.

HOOF-PAD.

SPECIFICATION forming part of Letters Patent No. 734,301, dated July 21, 1903.

Application filed December 3, 1902. Serial No. 133,757. (No model.)

To all whom it may concern:

Be it known that I, JOHN CAMPBELL, a subject of the King of Great Britain, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Hoof-Pad, of which the following is a full, clear, and exact description.

The invention relates to pads for use with horseshoes to act as cushions, and more particularly to pads of the type employed with shoes that terminate at the quarter.

The object of the invention is to provide a pad of the type indicated which will tend to expand the hoof and will yield in a downward direction to the pressure of the frog as the latter grows.

A further object is to combine with solid heel portions a pneumatic front portion and provide a novel arrangement for renewing the air in the hollow of the hoof.

The novel features of the invention will be hereinafter particularly described and then defined in the claim.

The practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a bottom plan view of a pad embodying my invention. Fig. 2 is a longitudinal section on the line 2 2 of Fig. 1. Fig. 3 is an inverted view in perspective of the rubber portion or pad proper with a part broken away, and Fig. 4 is a section on the line 4 4 of Fig. 1.

The leather base or backing A is of the usual shape and of a size to cover and form a closure of the hoof, and to the face of the same is secured, as by cement, the rubber cushion B, forming the pad proper. The cushion B is in general of horseshoe shape, the center of the pad being open, the open portion extending to the heel or rear end, as shown. At the sides of the open center the cushion is formed with two solid heel portions or blocks $b\ b$, the forward ends of which are beveled at the quarters, as at b' , the beveled portions being of a width to receive the corresponding ends of a horseshoe. (Not shown.) The curved front portion B' of the cushion is hollow, as shown, to form a pneumatic chamber, the said hollow portion terminating at the quarters. It will be ob-

served that the cushion is thickened at the toe, as at b^2 , to increase the strength of the cushion at this point. The rear wall of the pneumatic chamber is formed with an orifice b^3 , leading to the outside and through which air is forced by the alternate compression and expansion of the pneumatic portion when the pad is in use. Similarly the leather backing A has at the front a series of apertures a , whereby communication is established between the pneumatic chamber and the hollow of the hoof. Thus through the medium of the apertures a and b^3 the air in the hoof will constantly be renewed and the hoof thereby be kept cool. The spaced solid heel-blocks b sustain the impact of the heel, where the pad is subjected to the severest pressure, and effectively protect the wall of the hoof at the heel. The open space between the blocks permits the leather backing to yield between the blocks in response to the pressure exerted by the growing frog. I find this arrangement of spaced solid blocks extending laterally to the outside edges of the pad serve in practice to expand the hoof at the heel, and thereby resist any tendency of the hoof to contract.

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

The herein-described pad, comprising a leather backing and a rubber cushion thereon of horseshoe form leaving an open central portion extending from the heel toward the front and defined at the front by the curved front of the cushion, the said central portion of the backing being imperforate, said cushion having spaced solid heel-blocks extending laterally to the outside edges of the pad and beveled at the quarters, and a curved front portion, said curved portion being hollow and the outer or lower wall thereof being of increased thickness at the toe and having an opening in its rear wall, and the said backing having a series of apertures leading to the interior of the hollow portion of the cushion.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN CAMPBELL.

Witnesses:

J. L. MCAULIFFE,
EVERARD BOLTON MARSHALL.