No. 850,128. PATENTED APR. 16, 1907.

R. C. BEVER.

PNEUMATIC KNEE BOOT FOR HORSES.

APPLICATION FILED FEB. 24, 1906.

Fig. 1.

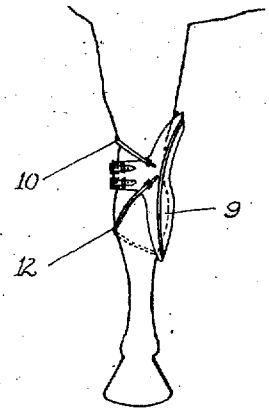


Fig. 2.

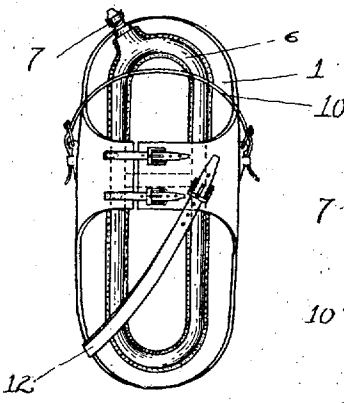


Fig. 3.

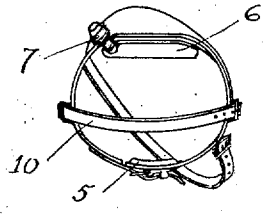


Fig. 4.

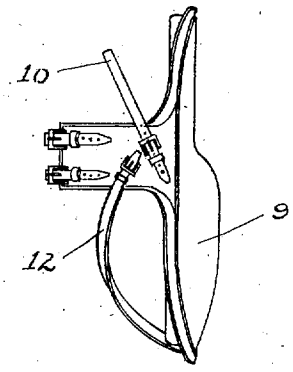
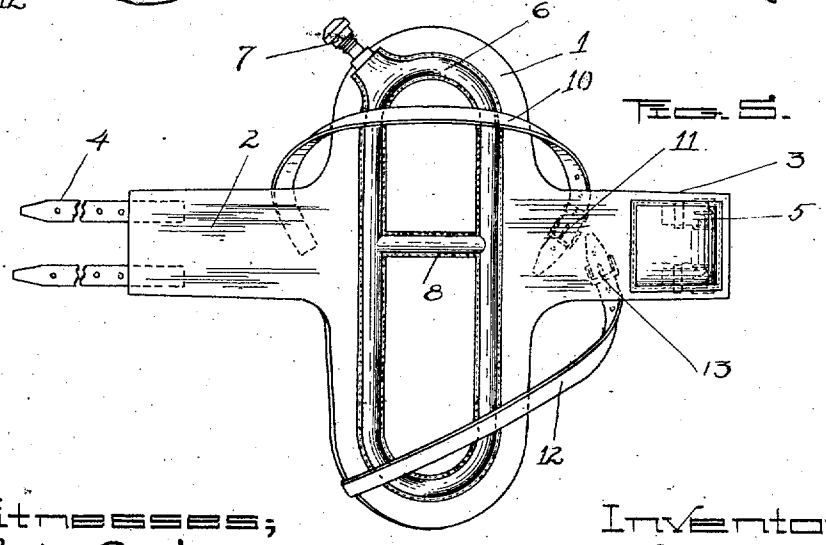


Fig. 5.



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PNEUMATIC KNEE-BOOT FOR HORSES.

No. 850,128. Specification of Letters Patent. Patented April 16, 1907.

Application filed February 24, 1906. Serial No. 302,709.

To all whom it may concern:

Be it known that I, ROBERT C. BEVER, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Pneumatic Knee-Boots for Horses; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention relates to new and useful improvements in horse-pads and knee-boots, and is intended more especially to prevent interfering, although a pad could be so positioned as to protect the knees of a horse from injury due to his fall. It is also intended to protect the knee or joint of the horse when the horse is liable to hit a foot against the knee when trotting or traveling fast. The horse throws his foot forward and the toe of the hoof-point inward and is liable to hit the knee.

It is an object of this invention to provide in combination with a device of this kind, novel securing means which will firmly retain the pad in position on the leg of the animal.

It is also an object of the invention to provide a novel arrangement of parts whereby the pad is permitted to readily conform to the anatomy of the part to which it is applied.

A further object of this invention is to provide, in combination with the pad, a pneumatic tube intended to contact with the leg to reduce any possible friction.

Finally, an object of this invention is to provide a device of this character which will possess advantages in points of efficiency, simplicity, and durability, proving at the same time comparatively inexpensive to produce and maintain.

With the foregoing and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail reference will be had to the accompanying drawings, forming part of this specification, wherein like characters denote corresponding parts in the several views, in which—

Figure 1 is a view of the leg of a horse with the device applied. Fig. 2 is a view in elevation of the device, the straps being shown in operative position. Fig. 3 is a top plan view of Fig. 2. Fig. 4 is a side elevation. Fig. 5 is a view in elevation of the pad with the attaching means partly operative and partly inoperative.

In the drawings, 1 indicates the body of the pad, which is approximately oval in contour. Projecting from the opposite sides of the pad are extensions 2 3. To the extension 2 are fastened a plurality of straps 4, and to the extension 3 are fastened buckles 5, which are adapted to act in conjunction with the straps of the section 2. To the interior surface of the body 1 is applied a flexible tube 6, which conforms approximately to the contour of the body proper and is positioned a slight distance from the edge of the body. This tube is provided in its upper portion with a valved nipple 7, which extends to one side of the body proper, and communicating with the parallel portions of the tube 6 is a branch tube 8, which is arranged transversely of the body 1. This branch tube is positioned at a point slightly above the center of the pad when the pad is in position and is intended to bear against the leg of the animal. It readily conforms to the shape thereof and fits snugly thereagainst. This tube also prevents chafing of the animal or other annoyance that may result from direct contact of the body with the leg. The lower portion 9 of the body is padded, as is shown in Figs. 1 and 4.

Joined to the extension 2 at a point adjacent its junction with the body 1 is a strap 10. This strap is inclined upwardly and is intended to pass around the leg of the horse and be secured to a buckle 11, attached to the opposite extension 3 near its junction with the body 1. This strap will hold the body of pad against any downward movement on the leg of the animal. Fastened near the end of the body 1 is a strap 12, which passes diagonally around the leg of the horse and engages a buckle 13 on the extension 3 and is intended to pull or hold the lower portion of the body or pad against the leg and to firmly hold it in position. It is to be mentioned that the strap 12 is attached to the body 1 on the side opposite to the extension 3.

When the pad has been applied to the leg of an animal and the tube inflated, there will be certain yielding of the tube, which will form shoulder-like portions on each side of the leg, resulting in the retention of the pad

against sidewise movement. That portion of the tube which is in contact with the leg will produce sufficient friction against the leg to prevent any vertical movement of the pad.

When the device is utilized as a knee-pad proper—that is, to guard against injury to the knees when a horse falls—it is only necessary to apply the pad to the front instead of to the side of the leg, and it will be held in place by the parts heretofore described.

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

1. In combination, a horse-boot, an inflatable tube secured to a face of the body thereof, said tube, approximating the contour of the body, and a branch tube communicating with the first-named tube and arranged transversely of the body to prevent chafing of a horse's leg by the boot proper when said boot is in applied position.

2. In combination, a horse-boot, an inflatable tube thereon approximating the shape of an oval and a branch tube connecting the sides of the oval to prevent chafing of a horse's leg by the boot proper when said boot is in applied position.

3. In combination, a horse-boot, an inflatable tube thereon approximating the shape of an oval, a branch tube connecting the opposite sides of the oval at a point above the center thereof to prevent chafing of a horse's leg by the boot proper when said boot is in applied position.

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Witnesses:
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