R. J. ALGEO.

Improvement in Horse-Collar Caps.

No. 132,515. Patented Oct. 29, 1872.

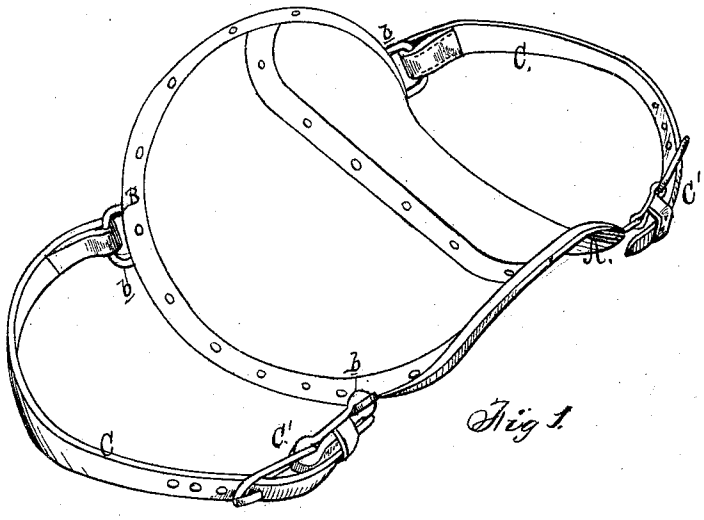


Fig 1.

Fig 3

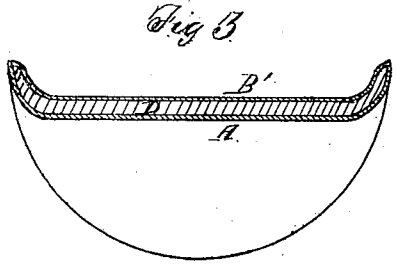
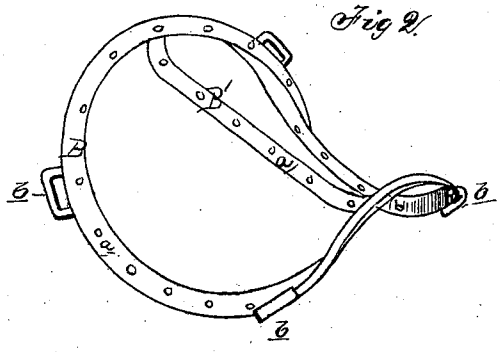


Fig 2.



Witnesses.
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AM. PHOTO-LITHOGRAPHIC CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

RICHARD J. ALGEO, OF KALAMAZOO, MICHIGAN.

IMPROVEMENT IN HORSE-COLLAR CAPS.

Specification forming part of Letters Patent No. **132,515**, dated October 29, 1872.

To all whom it may concern:

Be it known that I, RICHARD J. ALGEO, of Kalamazoo, in the county of Kalamazoo and State of Michigan, have invented a new and useful Improvement in Horse-Collar Caps; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my improved collar-cap; Fig. 2 is a perspective view of the frame alone; and Fig. 3 is a longitudinal section on the line *x x* in Fig. 1.

Like letters refer to like parts in each figure.

This invention relates to an improvement in the construction of sheet-metal caps for collars; and has for its object to preserve the saddle-like form of the cap and to enable it to resist the pressure of the hames, and to this end it is secured at the edges to a metallic skeleton frame. The invention consists, first, in the peculiar construction of a sheet-zinc collar-pad, secured to a skeleton frame of cast or malleable cast-iron; second, in the peculiar form of said frame; third, in the interposition, between the said cap and the frame, of a backing or filling of rubber, leather, or canvas, for preventing the cap from being heated by the sun's rays and causing it to chafe or gall the horse's neck in hot weather.

In the drawing, A represents a sheet-zinc collar-cap, in the form of a miniature saddle. B is a light rim or frame, of cast or malleable iron, or other metal, with a longitudinal girder or stiffening-web, B′. The frame is shaped to the contour and outline of the cap A, to which it is secured at intervals by rivets *a;* but between said cap and frame is interposed a backing, D, of leather, canvas, or other suitable material, which is thereby held in place, the object of which is to prevent the heat of the sun from striking through the cap, causing the latter to chafe or gall the horse's neck in hot weather.

The frame-rim is cast with a pair of loops, *b*, at each side, to which may be attached the straps C and buckles C′ for securing the pad to the top of the collar. As the hames are drawn together by their straps at their lower ends a great leverage is exerted upon the lower edges of the cap, which become the fulcrums of the hames, tending to draw or force them inwardly and thus distort the cap. The frame B resists this pressure, and keeps the edges of the sheet-metal cap from being bent at these and all other points. The girder B′ serves a double office—first, in giving the frame the requisite strength and stiffness; and secondly, as the hame and collar straps draw across the top of the pad, it takes their friction and relieves the cap and backing from their stress and wear.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The metallic pad-frame B B′, constructed as described, for the purpose specified.

2. The combination, with the pad-frame B B′, of the sheet-zinc collar-pad A, as shown and described, for the purpose set forth.

3. The combination, with the zinc pad A and frame B B′, as described, of the leather or other backing D, as and for the purpose set forth.

RICHARD J. ALGEO.

Witnesses:

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H. S. SPRAGUE.