

(No Model.)

S. B. RAW.
HORSE COLLAR PAD.

No. 395,404.

Patented Jan. 1, 1889.

Fig. 1.

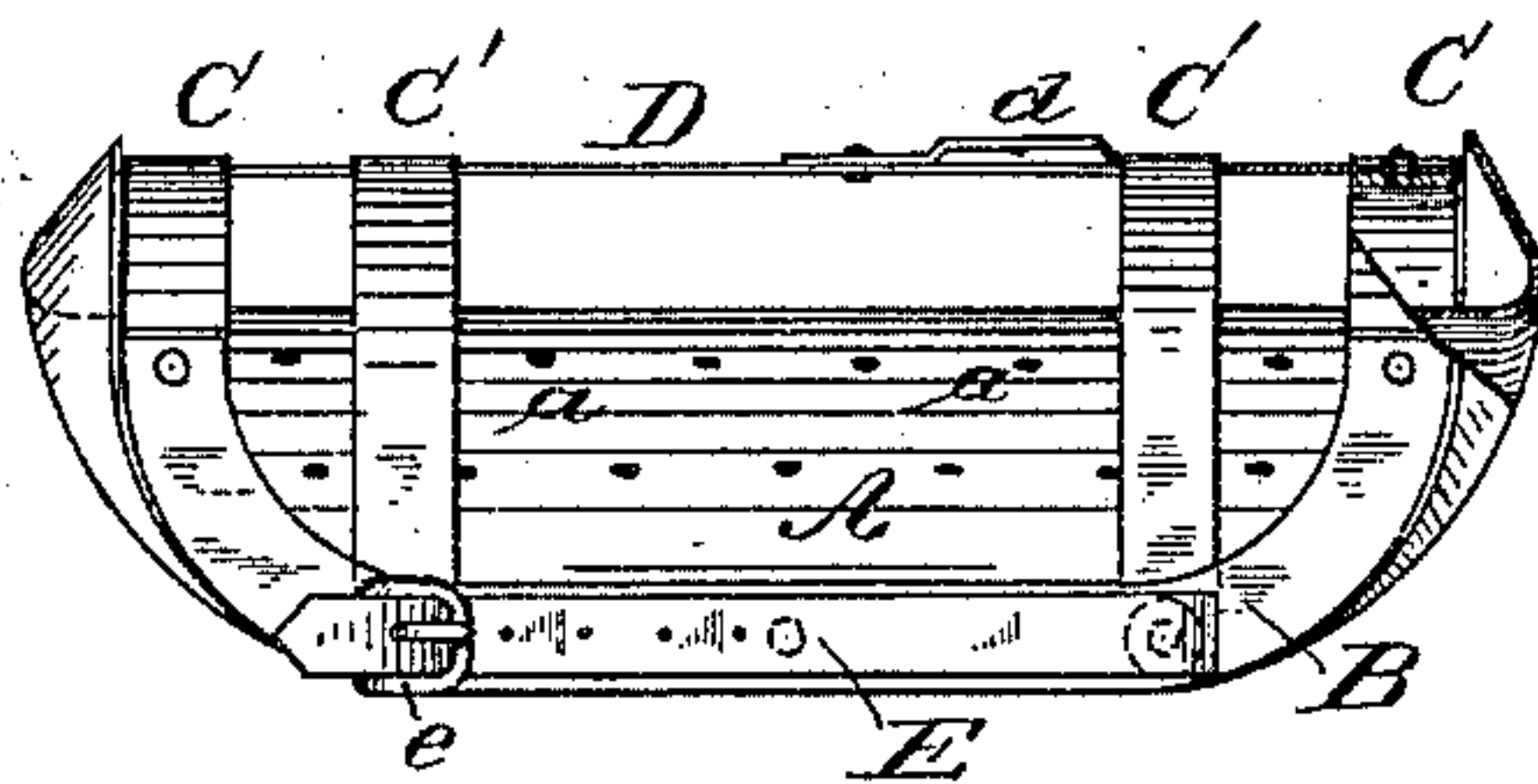


Fig. 2.

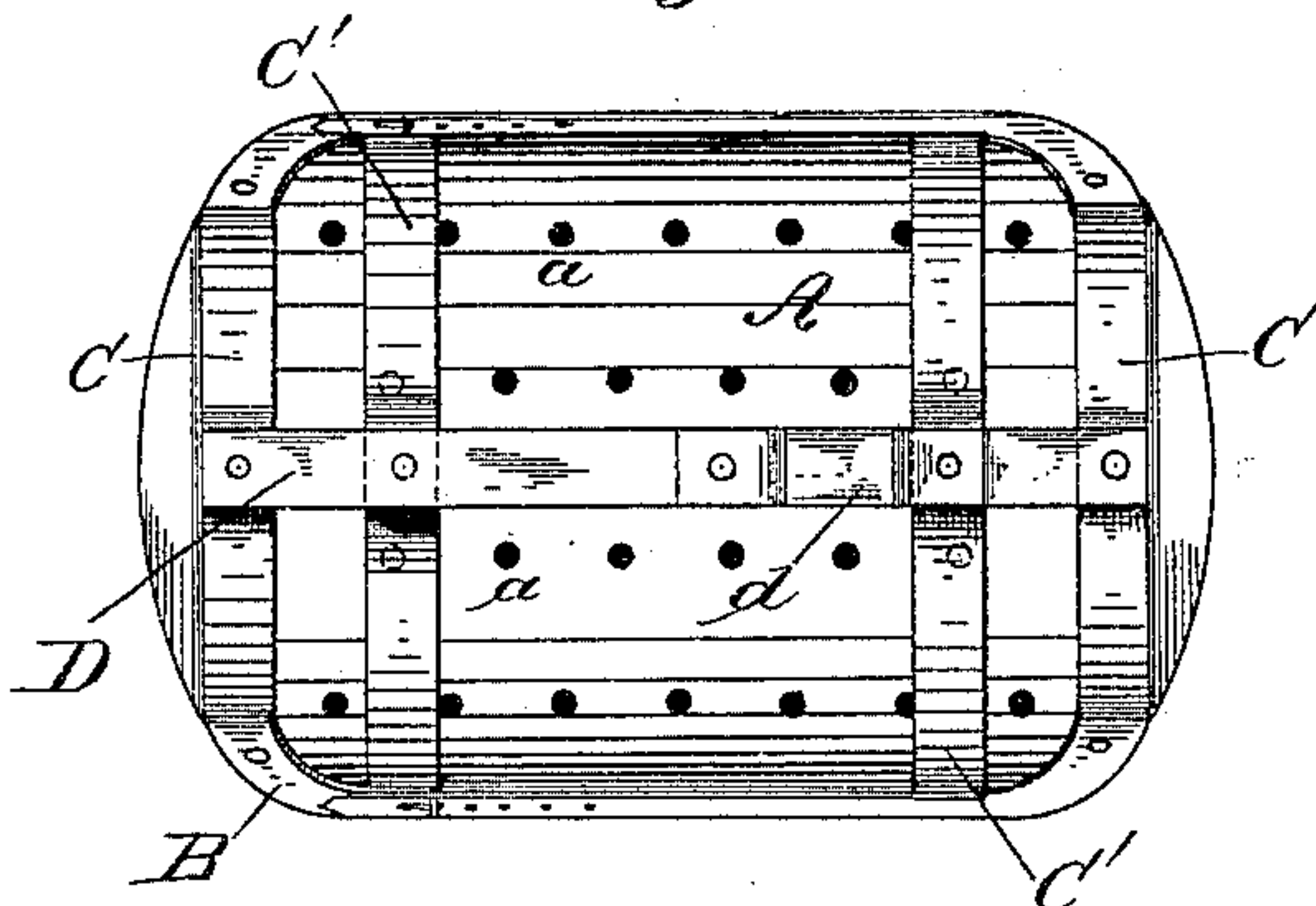
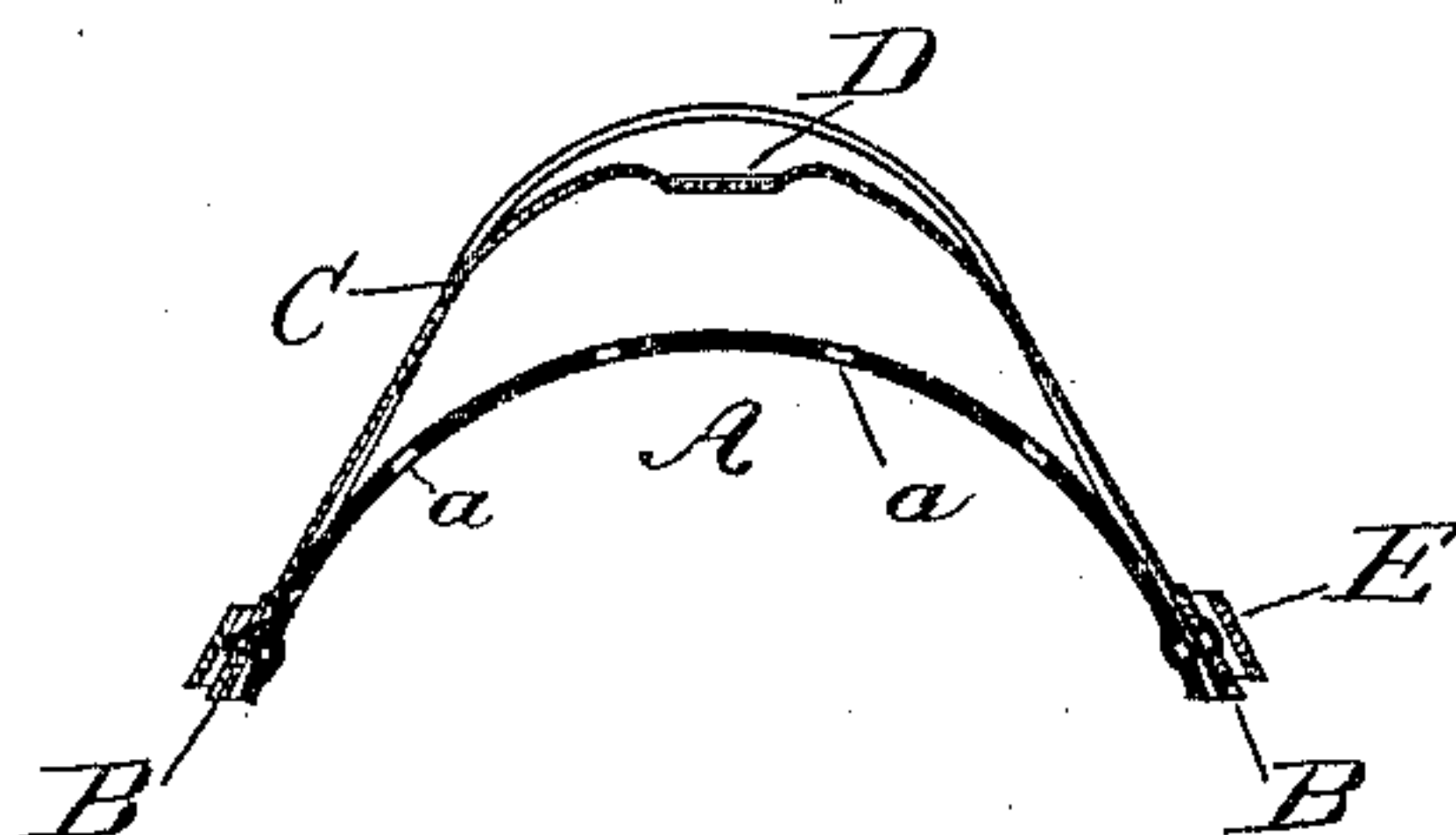


Fig. 3.



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UNITED STATES PATENT OFFICE.

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HORSE-COLLAR PAD.

SPECIFICATION forming part of Letters Patent No. 395,404, dated January 1, 1889.

Application filed June 9, 1888. Serial No. 276,572. (No model.)

To all whom it may concern:

Be it known that I, SIMON B. RAW, a citizen of the United States, residing at Sheffield, in the county of Franklin and State of Iowa, have invented certain new and useful Improvements in Collar-Pads; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to harness; and its object is to improve the pad that rests upon the neck of the horse to prevent the chafing due to the movements of the collar.

In the drawings, Figure 1 is a side view, one end being in section. Fig. 2 is a plan, and Fig. 3 is a cross-section, of my improved pad.

The same reference-letters are used in all the views.

The saddle A, that comes directly in contact with the neck of the horse, is a sheet of thick leather suitably curved to form an arch, as shown, and having its ends turned upward and slightly toward each other. The leather is perforated here and there at *a* to ventilate the pad. To the lower edge of the saddle on each side is riveted or otherwise secured a strip of metal, B, which is curved upward and sidewise at each end, conforming to the shape and curvature of the saddle. An arched strip of metal, C, straddles the base-plate at each end, the ends of the strips being riveted or otherwise secured to the upturned ends of the side strips, B; or the strips B and C may be in one piece. The strips C may be slightly depressed at the middle, thereby giving them an ox-bow shape, as clearly shown in Fig. 3. They are of such a length as to stand somewhat above the saddle A, rising about as high as the upturned ends of the leather, and being composed of an elastic metal—such as steel—they act as springs.

To the middle of the springs C is riveted or otherwise secured a bar, D, extending lengthwise of the pad above the saddle A, and constituting a backbone for the device. At any

desired point on the backbone is secured one or more eyes or loops, *d*. Two or more spring-arches, C', intermediate of the springs C, may be secured to the side bars, B, and backbone D. A leather strap, E, is fastened to each side bar near one end thereof, engaging with a buckle, *e*, secured near the other end of the side bar. By means of these straps the pad is secured in place in the upper end or withers of the horse-collar, the straps that unite the collar being passed through the loop *d* on the backbone D. The pad may be protected by a suitable housing. The straps that unite the hames pass over the backbone D. The weight of the collar and hames is thus directly sustained by the springs. Furthermore, they yield laterally under the movements of the collar and allow the base-plate A to lie undisturbed upon the horse's neck, thus removing all danger of chafing.

I am aware that it has been proposed to make a horse-collar pad in which the saddle is straddled by an arched sheet of metal, the ends of which are secured to the sides of the saddle; but the object of this construction is merely to provide an air-space over the horse's neck. The metallic sheet is rigid and cannot yield laterally under the movements of the collar, as my springs do.

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

1. A horse-collar pad having an arched saddle, a series of transverse laterally-yielding arched springs straddling the saddle, side bars secured to the saddle and to the ends of the springs, and a longitudinal bar or backbone secured to the middle of the springs, substantially as described.

2. A horse-collar pad consisting of the combination, with the perforated leather saddle A, of the side bars, B, secured thereto, the ox-bow-shaped springs C C', secured to the side bars, and the backbone D, secured to the springs, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SIMON B. RAW.

Witnesses:

CHAS. LE VALLEY,
W. D. PARKER.