

L. E. CRANE.
Collar-Support and Friction-Pad.

No. 220,963.

Patented Oct. 28, 1879.

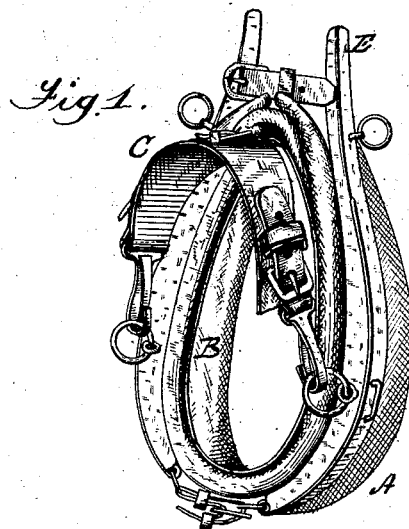


Fig. 2.

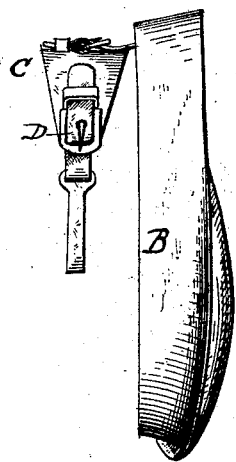


Fig. 4.

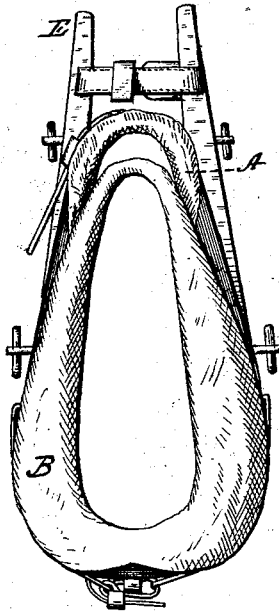
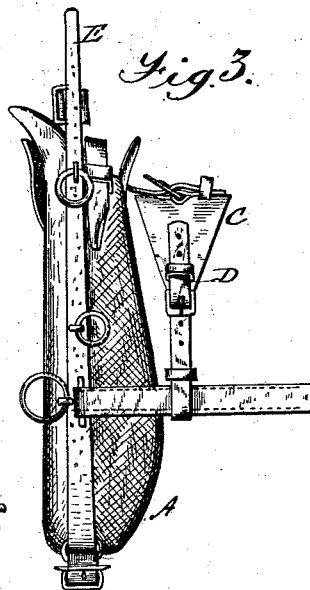


Fig. 3.



Attest;
J. Walter Fowler,
W. H. Morrell

Inventor;
Lauren E. Crane
per attys. A. H. Evans & Co.

UNITED STATES PATENT OFFICE.

LAUREN E. CRANE, OF ROCHESTER, MINNESOTA.

IMPROVEMENT IN COLLAR-SUPPORTS AND FRICTION-PADS.

Specification forming part of Letters Patent No. **220,963**, dated October 28, 1879; application filed September 30, 1879.

To all whom it may concern:

Be it known that I, LAUREN E. CRANE, of Rochester, Minnesota, have invented a new and Improved Collar-Support and Friction-Pad for Horse-Collars, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a horse-collar with my improvements attached. Fig. 2 shows the collar-support and friction-pad detached. Fig. 3 shows a modification of the collar-support. Fig. 4 is a rear view of the collar with support and pad attached.

My invention relates to the use of collars on horses, and is designed to relieve the neck of the horse from the pressure when desired, and also to guard his shoulders against friction from the collar; and it consists of the combination of devices hereinafter described and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents a horse-collar, and E a pair of hames attached thereto. As now made and used the collar when in position drops down and rests suspended on the neck of the horse, frequently galling the neck and producing sores thereon.

To relieve these sores and allow them to cure is the object of my invention.

The constant friction of the collar upon the shoulders of a horse tends to make the shoulders sensitive and sore, thereby rendering the horse more or less unfit for service. To remedy this is another object of my invention.

The support C is a broad strap passing over the neck of the horse in front of the collar, and is secured at each end to the breast-ring of the hames by means of snap-hooks and adjustable straps D. By means of the straps D thus arranged the collar may be lifted from the upper part of the horse's neck—say, from three-quarters of an inch to an inch and a

half—thus removing the cause and allowing the sore to heal under the influence of a free circulation of air between the neck and the top of the collar. As the sore heals and cures up the collar may be gradually lowered by means of the buckles until it is again allowed to rest upon the upper part of the neck.

It is evident that the support may be placed in the rear of the collar, as shown in Fig. 3, and be secured to the hame tug, clip, or staple, and by this arrangement of the support raise the collar from the neck and relieve a sore; or, in some cases, as I have found by experiment, the straps D may be extended so as to embrace the pole or neck-yoke, thus relieving the collar from the weight of the pole, and indirectly relieving the neck to that extent.

Attached to the support C is the friction-pad B, fitting loosely within the collar and somewhat shorter than the collar, so that it may rest lightly on the upper part of the neck when the collar has been raised by the support, as shown in Fig. 1. This friction-pad lies smoothly and quietly against the shoulders of the horse, while the collar constantly plays outside of and against it, thus relieving the shoulders from injurious friction and protecting them against sores. The friction-pad need not necessarily be attached directly to the support to secure combined action, for as the collar is raised within certain limits by the support the friction-pad will drop down into position.

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

1. In combination with a horse-collar, the support C for raising the collar from the neck, substantially as and for the purpose set forth.

2. In combination with the support C, constructed as described, the friction-pad B, made shorter than the collar, substantially as and for the purpose described.

LAUREN EDGAR CRANE.

Witnesses:

RAY FANKHOUSER,
E. E. BIERMANN.