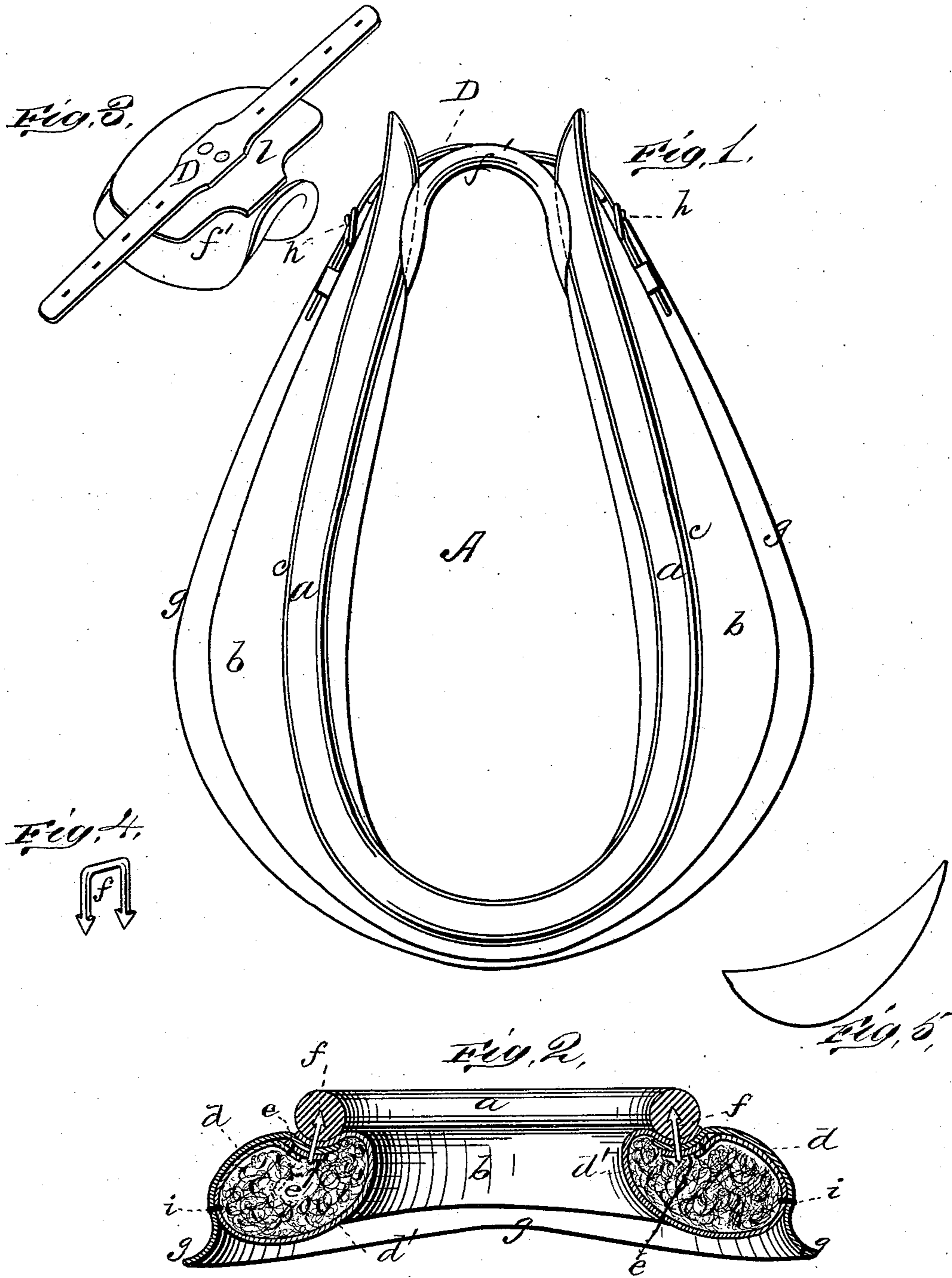


W. H. BROWNSON.  
Horse-Collar.

No. 206,535.

Patented July 30, 1878.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. BROWNSON, OF ST. PAUL, MINNESOTA.

## IMPROVEMENT IN HORSE-COLLARS.

Specification forming part of Letters Patent No. **206,535**, dated July 30, 1878; application filed December 22, 1877.

*To all whom it may concern:*

Be it known that I, WILLIAM H. BROWNSON, of St. Paul, in the State of Minnesota, have invented a new and valuable Improvement in Horse-Collars; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a front view of my improved collar. Fig. 2 is a cross-sectional view thereof. Fig. 3 is a view of the combined guard-housing and billet, and Figs. 4 and 5 are details.

This invention has for its object the improvement of horse-collars.

The nature of the invention consists in the combination of a bent rim and pad, formed of two overlapped strips of leather, the latter being bent around to form a pad-case, and stitched to the welt, and the former extended outward beyond the pad, to form a housing, and stitched thereto.

It also consists in the combination, with a horse-collar open at the withers, and provided with buckles at each side of the opening, of a double billet, a neck-guard, and the housing secured thereto, as will be hereinafter more fully shown and described.

In the annexed drawings, the letter A designates a collar for horses and mules, and consisting of a fore-wale, *a*, and an after-wale, body-side, or pad, *b*, between which is a crease, *c*, for the reception of the hames.

The fore-wale *a* is made of wood of any suitable description, and, being of proper dimensions and shape, is first steamed and then bent into the proper shape.

The after-wale or pad *b* is made of two pieces of leather, *d d'*, which, being overlapped, as shown in Fig. 2, are rigidly secured, along with a welt-strip, *e*, to the wooden rim *a* aforesaid, preferably by means of a suitable number of barbed staples, *f*. I may, however, use brad-headed nails if I so elect. The free

edge of the piece *d'* is then turned under, and securely stitched to the welt-strip *e* aforesaid, thus forming a leather tube which, being stuffed, constitutes the pad or cushion. The cushion thus formed is then secured, by stitching, as shown at *i*, to the part *d*, which is sufficiently wide to form an overlapping guard, *g*, for the protection of the collar from wet weather. The rim *a* is thus properly attached to the pad, and effectually holds the collar, of which it is a part, in shape.

At each side of the opening, at the withers of the collar, a suitable buckle, *h*, is rigidly secured, for the reception of the double billet *D*. This billet is riveted, or otherwise rigidly secured, at its middle portion to a housing composed of two pieces of leather, placed the one upon the other, and secured together only at one point. The lower leather, *f'*, of this housing is passed under the ends of the collar and the upper leather, *l*, outside of the same, and the ends of the billet passed into the buckles *h*. If the collar should be too short, by letting out the billet one or more holes, as the case may be, this defect may be speedily and effectually rectified.

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

1. In combination with the bent rim *a*, the pad *b*, formed of two overlapped strips of leather, *d d'*, the latter being bent around to form a pad-case, and stitched to the welt *e*, and the former extended outward beyond the pad to form a housing, *g*, and stitched thereto, substantially as specified.

2. The combination, with a horse-collar open at the withers, and provided with buckles at each side of said opening, of the double billet and the neck-guard *f'*, and housing *l* secured thereto, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. BROWNSON.

Witnesses:

RALPH BROWNSON,  
JOHN F. SNYDER.