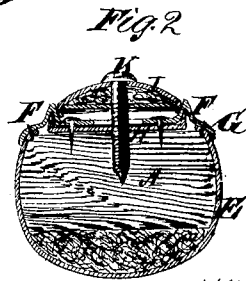
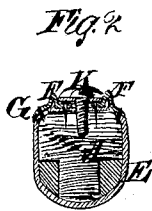
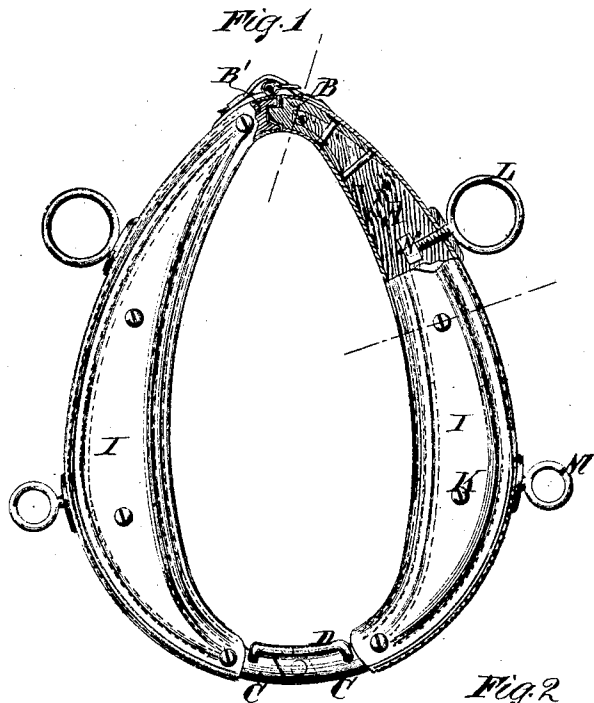


O'Brien & Wentworth,

Horse Collar.

No. 101,303.

Patented Mar. 29. 1870.



WITNESSES.
Joh. Beecher.
Jno. K. Brooks

INVENTOR.
Wm O'Brien
& H. Wentworth
per. *[Signature]*
Attorneys.

United States Patent Office.

WILLIAM O'BRIEN AND HARRY WENTWORTH, OF OMAHA, NEBRASKA.

Letters Patent No. 101,303, dated March 29, 1870.

IMPROVED COLLAR AND HAMES.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, WILLIAM O'BRIEN and HARRY WENTWORTH, of Omaha, in the county of Douglas and State of Nebraska, have invented a new and useful Improvement in Combined Collar and Hames; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings forming part of this specification.

This invention relates to new and useful improvements in the construction and arrangement of collars and hames in one structure.

The invention consists in an improved simple and cheap construction of the stocks or parts which serve the function of the hames and the base for the padding and lining of wood bodies, with metal mountings at the ends, of peculiar construction, to form the joints, as hereinafter described.

Figure 1 represents a front elevation of my improved combined hame and collar, a part being sectioned to show the construction more clearly.

Figures 2 and 3 represent cross-sections.

Similar letters of reference indicate corresponding parts.

I make the stocks or rigid parts A of wood, by first shaping the pieces into slabs of the oval and pointed shape required, and then bending them in the well-known way of bending and shaping wood to the forms represented in the drawings. These stocks are then fitted and secured to the crocheted metallic end mountings B B' C C', terminating in solid round ends, which at the top join together with socket and tenon, and at the bottom by a strong hinge-joint, so shaped that when in working position the said ends form a continuous round and smooth connection for the martingales or straps connecting with the girth. These lower joints are intended to prevent the two parts from oscillating on the vertical axis.

D is a staple or loop of wire connected to the hinged

parts C, and made in two parts to open when the two parts of the hame and collar are turned on the hinge-joint. This staple may be used for connecting the pole-straps or straps of any kind, as required.

The upper joint is held together by a strap and buckle. The socket and tenon prevent lateral movement of one part on another.

The lining or padding-leather E is first provided with the ornamental borders F by stitching to the edges thereof at G, and then the flaps of the borders are stretched over the turned-up edges of the tin or other sheet-metal plates H, and secured to the wood stocks A, by tacking to them through the plates H, in a way to raise the ribs near each edge of the front of the stock, between which the stuffed and ornamented facings I are secured by screws K.

The upper ends of the stocks A are rebated on one side for the reception of the prongs of the metal mountings B, as represented in fig. 2.

The terrets L and tug-connections M are attached by screwing into the wood parts A, and may have nuts N imbedded in the stocks in the manner of securing log-bolts.

It will be seen that this construction and manner of applying the padding-leather and facings admits of doing all the stitching prior to the attachment to the stock.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

The combination, with the wood stocks A, shaped and arranged as described, of the crocheted end mountings B B' and C C', when socket-jointed at the top and hinge-jointed at the bottom, all substantially as specified.

WM. O'BRIEN.
HARRY WENTWORTH.

Witnesses:

N. B. LASSE,
J. W. ROSWELL.