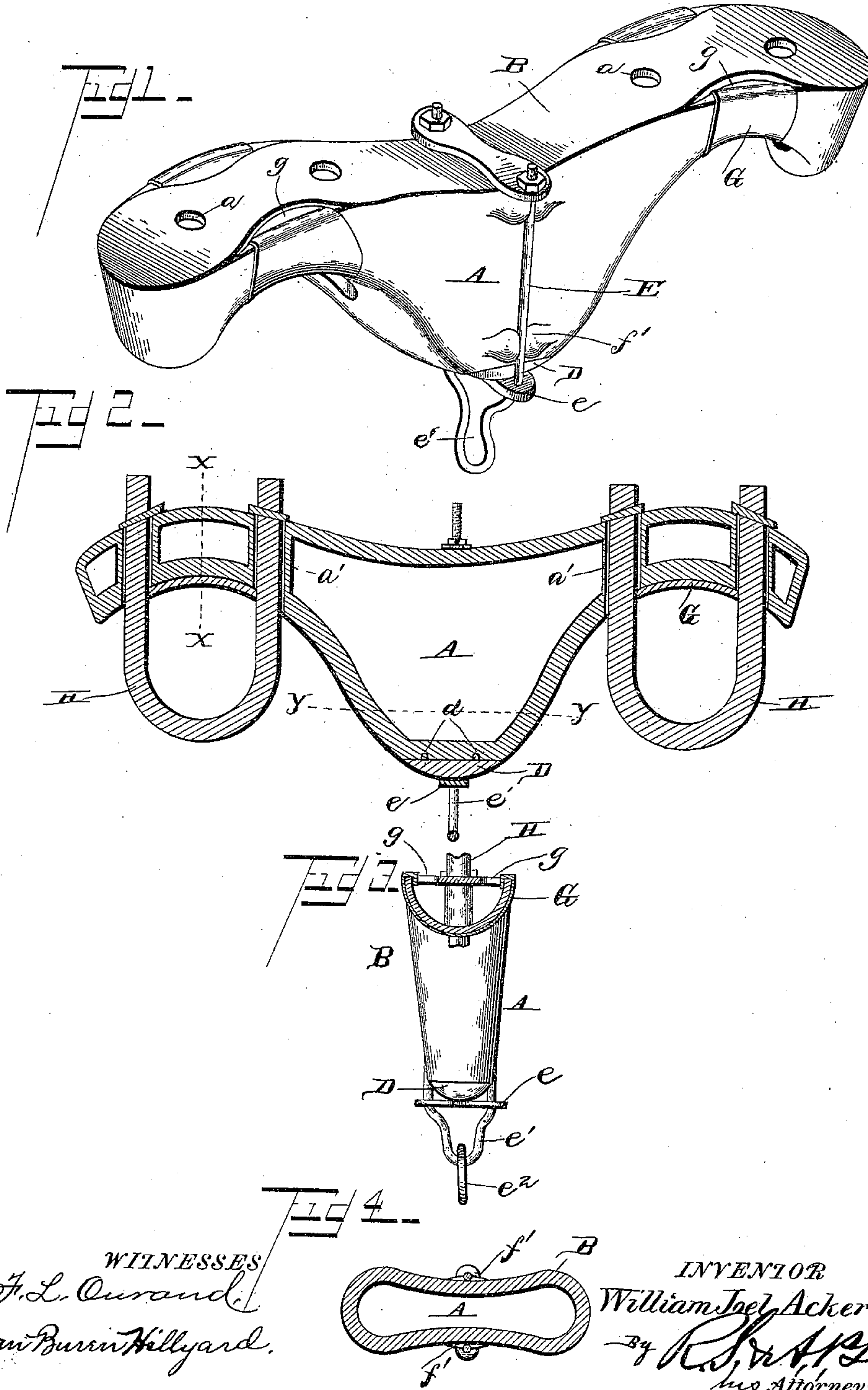


(No Model.)

W. J. ACKERMAN.
OX YOKE.

No. 448,104.

Patented Mar. 10, 1891.



WITNESSES
J. L. Curand.
Van Buren Hillyard.

INVENTOR
William Joel Ackerman,
By R. S. & A. Lacey
his Attorneys.

UNITED STATES PATENT OFFICE

WILLIAM JOEL ACKERMAN, OF MALCOLM, WISCONSIN.

OX-YOKE.

SPECIFICATION forming part of Letters Patent No. 448,104, dated March 10, 1891.

Application filed December 10, 1890. Serial No. 374,212. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JOEL ACKERMAN, a citizen of the United States, residing at Malcolm, in the county of Langlade and State of Wisconsin, have invented certain new and useful Improvements in Ox-Yokes; and I do hereby 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.

This invention relates to ox-yokes, and has for its object to provide a cast-metal yoke of usual configuration that will be light, cheap, strong, and adjustable to different-sized animals.

The improvement will be more fully described hereinafter, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a yoke embodying my invention. Fig. 2 is a horizontal section of the yoke, the bows being in position. Fig. 3 is a cross-section of the yoke on the line X X of Fig. 2. Fig. 4 is a horizontal section on the line Y Y of Fig. 2.

The yoke A is of usual configuration, and is composed of the stock P, which is hollow, and the removable collar-piece D, the latter being held to the stock by the clip E. The clip E is held in place by passing between two pairs of lugs *f* and *f'* near the top and the bottom sides of the stock and on both sides thereof. The lower end of the clip is extended below the lower cross-plate *e* and bent to form the loop *e'*, which receives the draft-ring *e*². The bow-openings *a a* are surrounded on the inner side of the stock by the tubular extensions *a' a'*, which project up from the lower side of the stock and extend flush with the top thereof and coincide with corresponding openings in the said top. The

collar-piece D is made removable, so that it can be replaced by other similar pieces of a greater or a less height to suit the team, and is held from lateral displacement by lugs *d*, which project therefrom and enter corresponding openings in the stock. The edges of the cap-plate are cut away at *g* opposite the neck-cavity in the yoke to permit the ends of the zinc plates G, which line the said neck-cavities, to be bent over the edges of the stock. The zinc plates are provided to prevent chafing of the animal's neck.

The bows H may be of the usual form and secured to the yoke in any desired manner.

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

1. A cast-metal yoke composed of a hollow stock having bow-openings, and having tubular extensions on the inner side of the stock in line with the bow-openings and extending flush with the top and the bottom sides of the stock, and having openings *g* in the top side opposite the neck-cavity, and the zinc plates fitted to the neck-cavities and having their ends bent over the sides of the stock into the said openings *g*, substantially as described.

2. The combination, with the hollow cast-metal stock having bow-openings, and having portions cut from the edges of the top side at *g* opposite the neck-cavities, of the bows H and the zinc plates lining the said neck-cavities of the stock and having their ends bent over the edges of the said stock, substantially as described.

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

WILLIAM JOEL ACKERMAN.

Witnesses:

T. H. WARD,
JAS. MCHALE.