

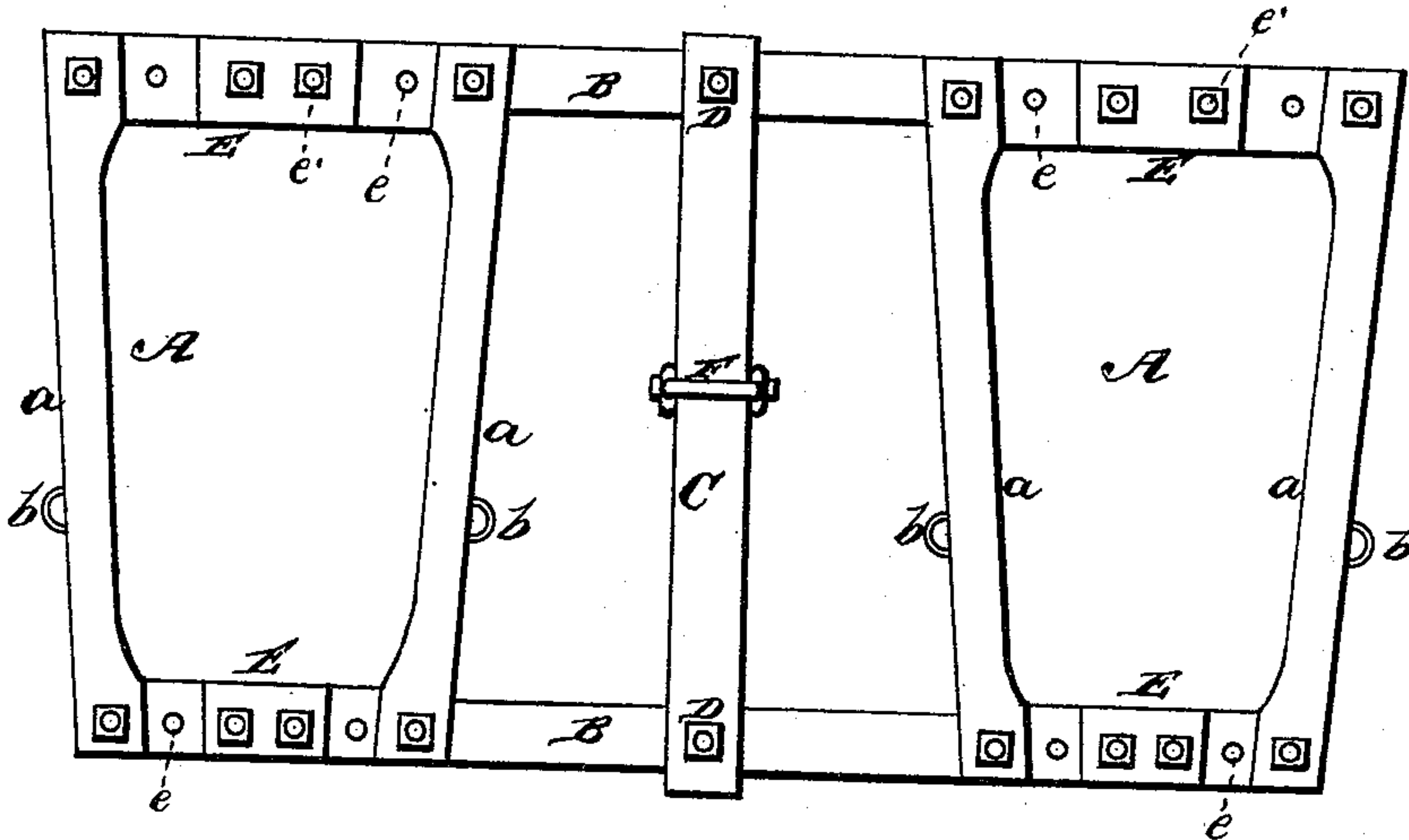
(Model.)

J. L. BABB.  
Neck Yoke.

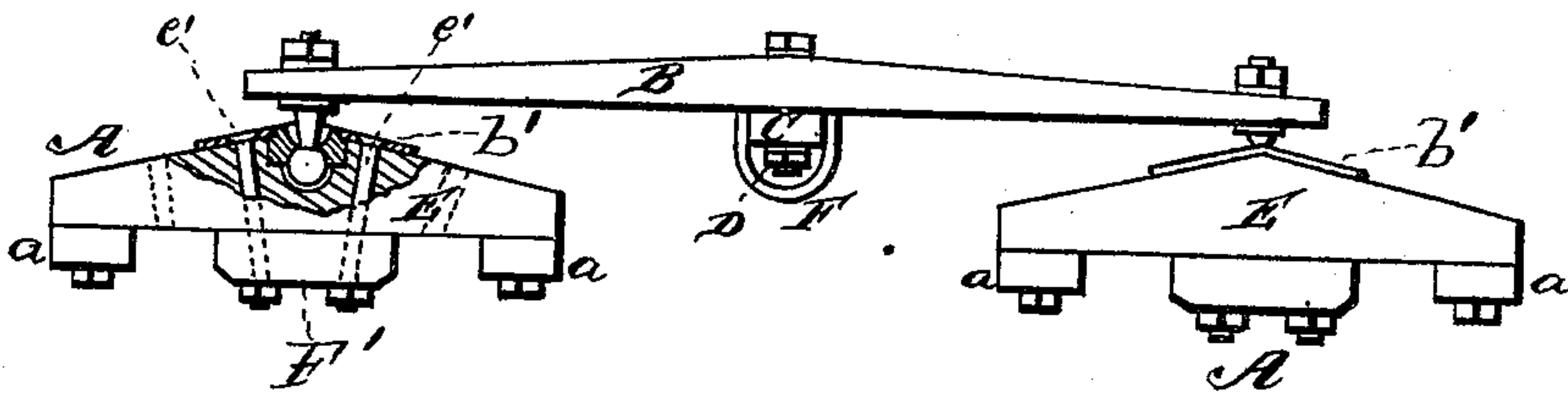
No. 229,938.

Patented July 13, 1880.

*Fig. 1.*



*Fig. 2.*



WITNESSES  
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# UNITED STATES PATENT OFFICE.

JOHN L. BABB, OF GREENLAND, WEST VIRGINIA.

## NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 229,938, dated July 13, 1880.

Application filed May 15, 1880. (Model.)

*To all whom it may concern:*

Be it known that I, JOHN L. BABB, of Greenland, in the county of Grant and State of West Virginia, have invented certain new and useful Improvements in Neck-Yokes; 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 of my neck-yoke, and Fig. 2 is a plan view of the same.

This invention has relation to neck-yokes; and it consists in the improvements in the construction of the same, as will hereinafter be fully described, and particularly pointed out in the claim.

Referring by letter to the drawings, A designates the yokes, formed of the end bars, E, perforated at *e*, and *a a* the side bars, perforated near each end and secured to the end bars, E, by bolts and nuts, as shown.

The end bars, E, are provided in their upper faces (which are preferably inclined from the center toward each end) with ball-and-socket or universal joints, as shown, the ball being prevented from withdrawing from its socket by a metal plate, *b'*, held in place upon the upper face of the bar E by bolts *e'*, passed through said plate, the bar E, and a strengthening-block, *F'*, upon the under face of the bar E, where they are secured by tightening-nuts, as shown.

B B designate bars by which the yokes A are connected at top and bottom.

A threaded shank extending upward from the ball of the universal joint passes through the bars B, near each end of the same, and is secured by nuts and washers, as shown. The bars B are connected by a bar, C, secured to them by bolts D.

F designates a clevis, by which the neck-

yoke may be connected with the pole of a wagon, cultivator, or the like.

The side bars, *a*, have staples *b*, through which the reins pass.

The universal-joint connections permit free play of the yokes in any necessary direction.

The several bars and blocks hereinbefore described are preferably made of wood, but may be made of any other suitable material or combination of materials that will answer the purpose, such as wood and leather, and the like.

The side bars, *a a*, may be adjusted, by means of the holes and bolts, to suit animals of different sizes.

From the foregoing description, taken in connection with the drawings, the construction and operation of the device will be readily understood. The device is simple, inexpensive, and serviceable.

I am aware that hames have been connected in pairs at top and bottom by bars, and that these bars have been also connected at their centers or middle by a third bar, as is shown in Patent No. 4,672, of July 28, 1846, and this construction I do not claim.

Having thus fully described my invention, what I claim is—

In an improved neck-yoke for horses, the combination of the yokes A A, composed of the side bars, E E, and end bars, *a a*, secured together by means of bolts, the connecting-bars B B, provided with universal-joint connections, and the bar C, attached to the bars B, all substantially as and for the purpose stated.

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

JOHN LEVI BABB.

Witnesses:

A. C. SCHERR,  
C. H. VOSSLER.