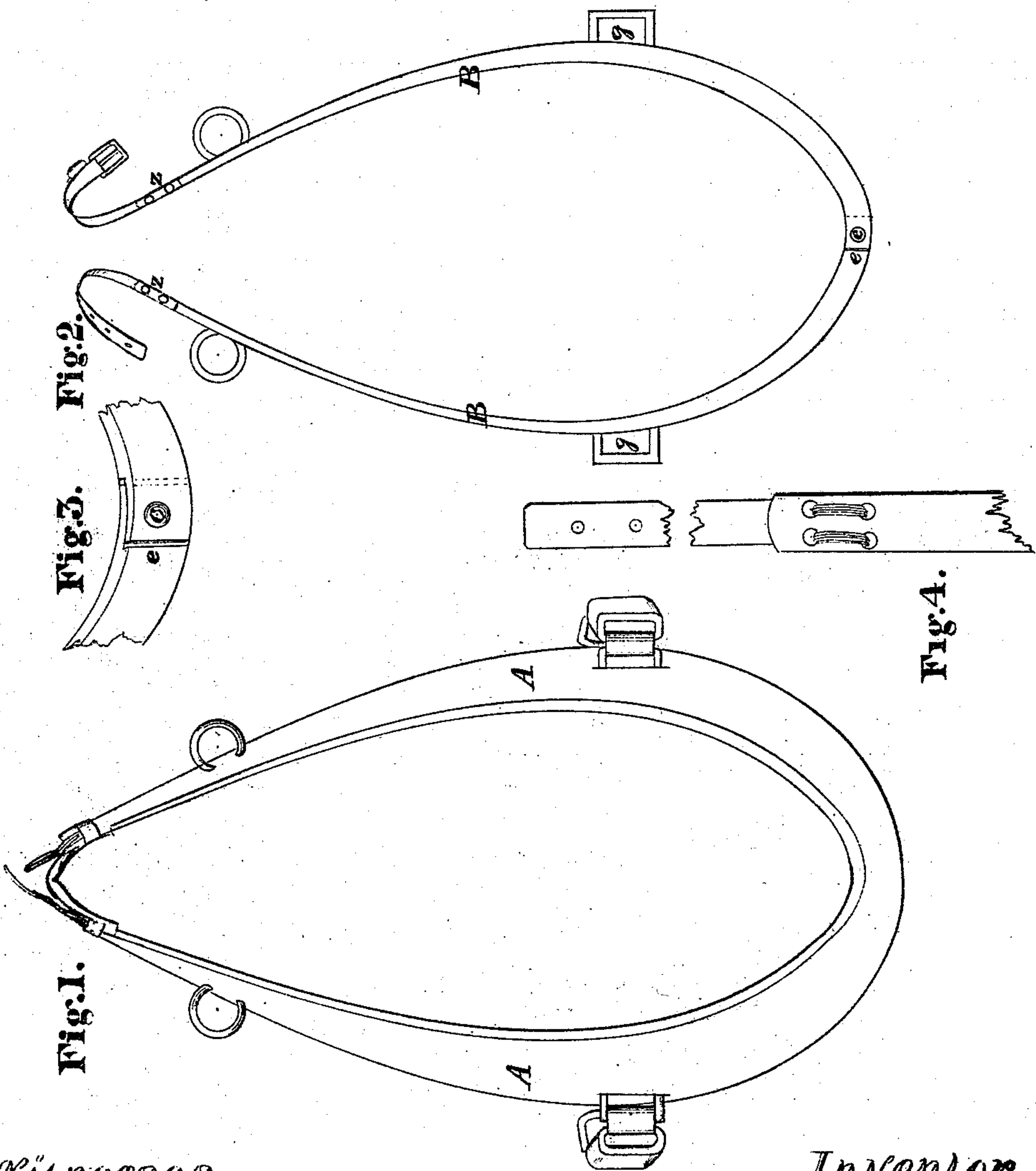


*J. L. Wooden,*

*Horse Collar.*

*No. 100,701.*

*Patented Mar. 8. 1870.*



*Witnesses,*  
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# United States Patent Office.

JOHN L. WOODEN, OF GREENSBURG, INDIANA.

Letters Patent No. 100,701, dated March 8, 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 I, JOHN L. WOODEN, of Greensburg, in the county of Decatur, and State of Indiana, have invented a new and valuable Improvement in Combined Collar and Hames; 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 my invention in full.

Figure 2 is a front view of the metal hames.

Figure 3 is a detached view of the stop-joint.

Figure 4 represents a modification of the method of attaching the fastening-strap to the metal hames.

My invention relates to harness, and consists, mainly, in combining together the collar and hames in such a manner as to form a serviceable, durable, and elegant article of harness.

The letter A of the drawings designates the collar, covered and padded in the usual manner.

Between the facing and padding are placed the metal hames B B, secured together at the bottom by a hinge-joint, *c*, whose action is limited by the shoulder *e* in such a manner that the hames cannot be opened further than is necessary to slip the collar over the neck of the horse.

The ends of the buckle-straps, by which the collar is fastened together at the top, are riveted, as at *z z*,

or otherwise fastened to the metal hames, and then stitched to the leather covering in the manner shown.

Loops *g g* or eyes and clips are attached to the hames for the tugs.

Sometimes I propose to make openings in the leather facing and to plate the surface of the metal thus brought to view.

The parts are made usually very light, no more padding being used than is necessary to protect the breast of the horses, the metal plates B B serving to keep the collar in form.

My invention is designed to be a light, durable, and serviceable article of harness. It is readily adjusted to the horse, and when taken off cannot be spread beyond a certain point, regulated by the stop-joint *c*.

Thus, the motion of the lower bend of the collar is not sufficient to cause the leather parts to wear and break away.

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

In combination with the padded collar A, the metal hames B B, fastened together at bottom by means of a stop-joint, *c*, and secured to the buckle-straps at top, as shown and described.

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

Witnesses:

JOHN L. WOODEN.

JOHN S. SCOEY,

JOHN M. STEVENS.