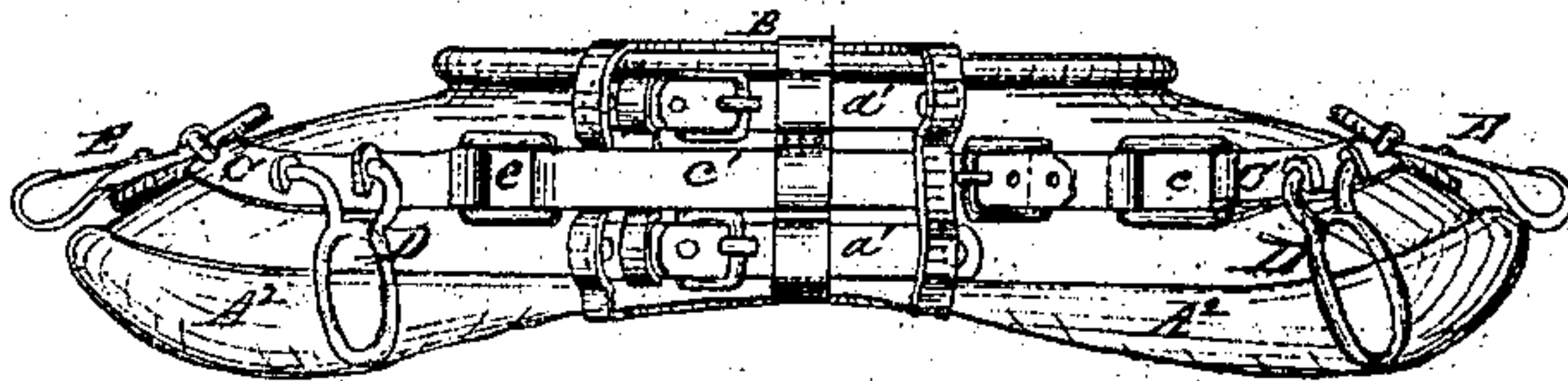


*J. Englaender,*

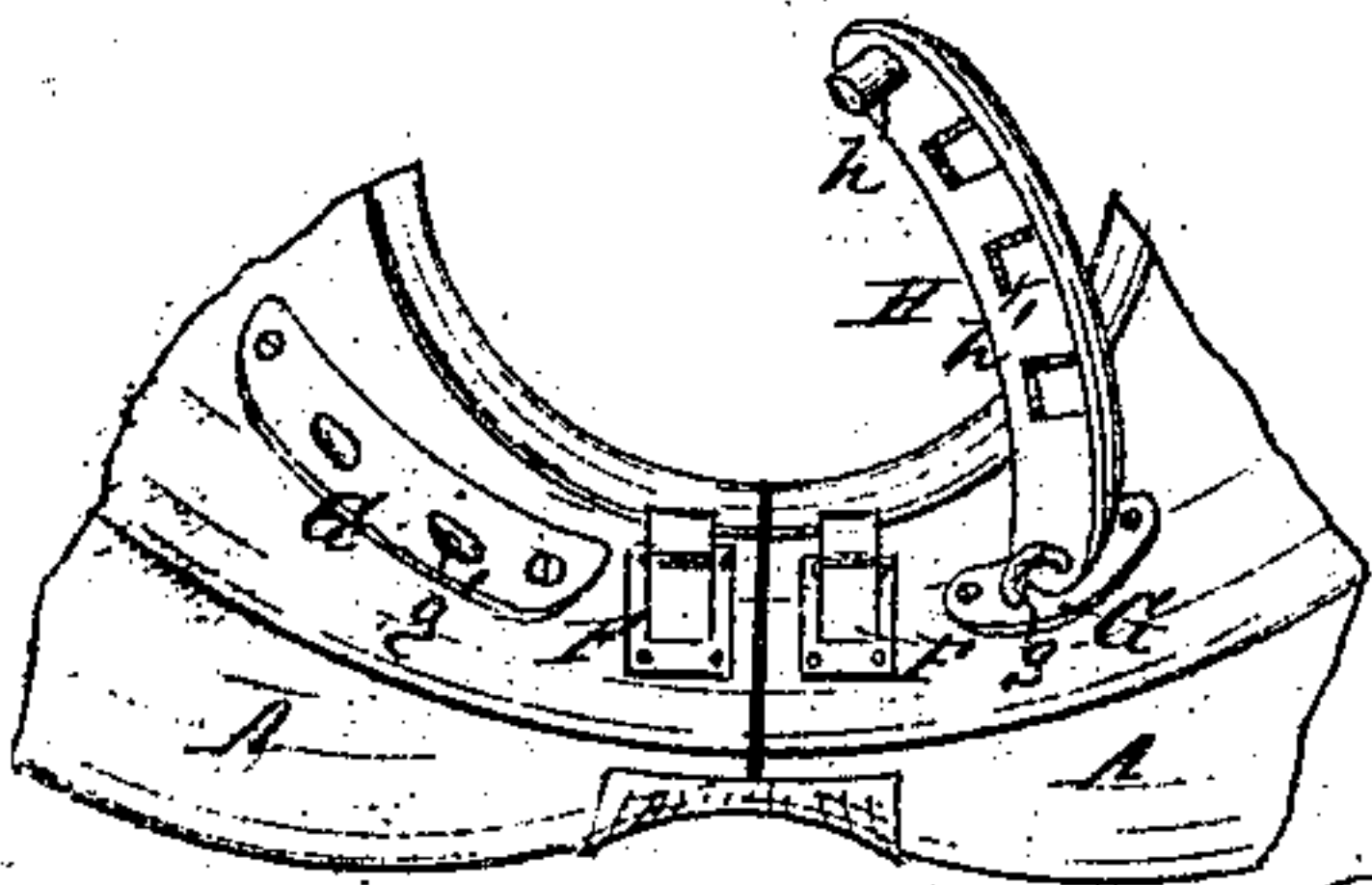
*Horse Collar.*

*No. 104,000.*

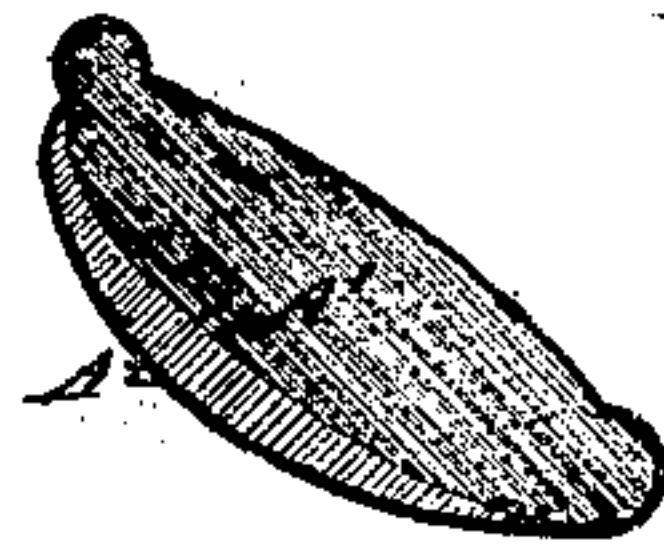
*Patented June 7. 1870.*



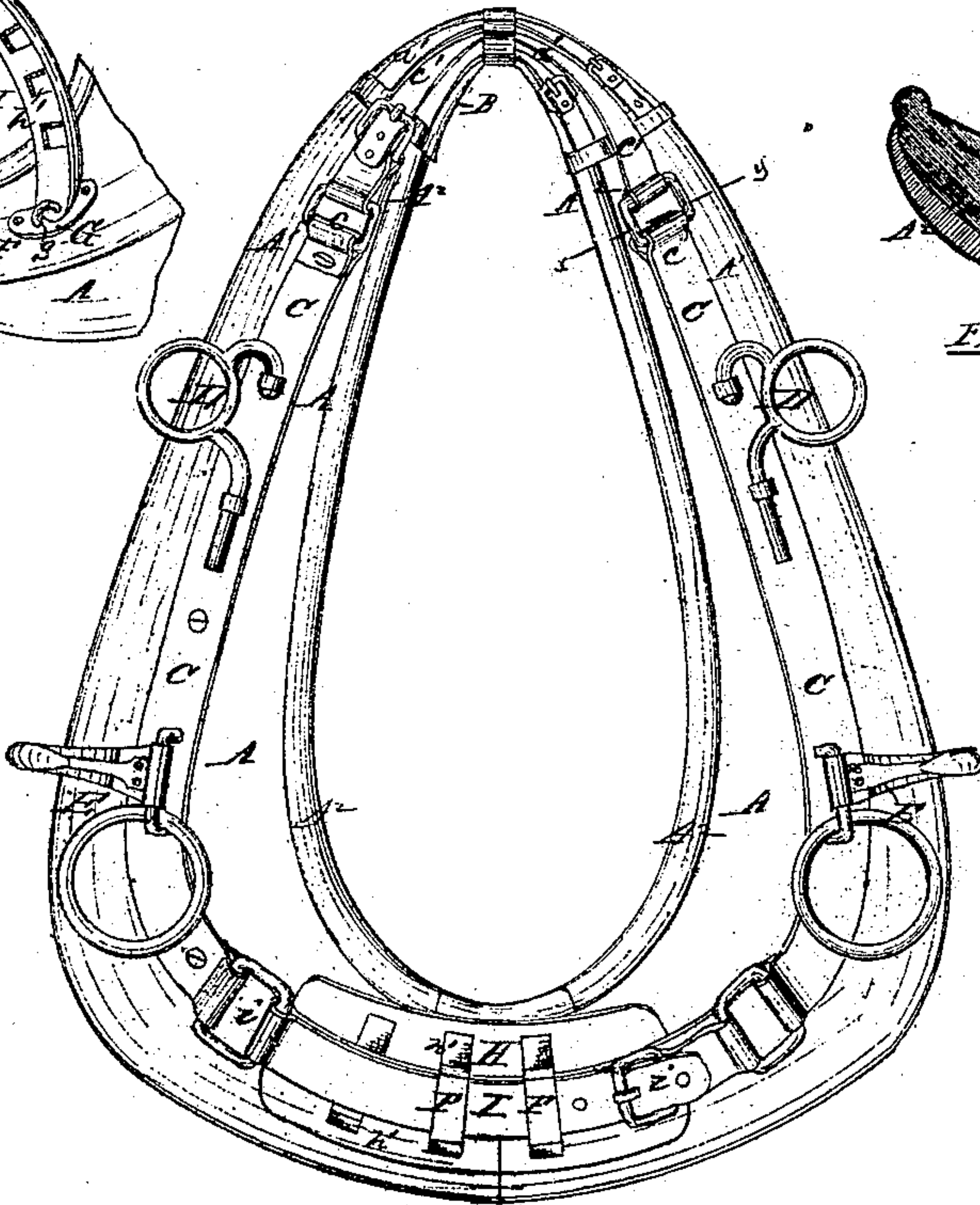
*Figure 2.*



*Figure 3.*



*Figure 4.*



*Figure 1.*

Witnesses.

*William W. Hertel*

*Robert Burns*

Inventor:

*J. Englaender*  
*by his attys*  
*Hertel & Co*



# United States Patent Office.

JOSEPH ENGLAENDER, OF SEDALIA, MISSOURI, ASSIGNOR TO HIMSELF  
AND EUGENE LUNGSTRAS, OF SAME PLACE.

Letters Patent No. 104,000, dated June 7, 1870.

## IMPROVEMENT IN HORSE-COLLARS.

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, JOSEPH ENGLAENDER, of Sedalia, in the county of Pettis and State of Missouri, have made certain new and useful Improvements in Horse-Collars; and I do hereby declare the following to be a full and true description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon.

This invention relates to the manner of attaching the traces and other straps or band of harness to the collar directly without the use of hames, and to the arrangement of the collar itself, so as to be properly adjustable and wear easily upon the neck of the draft animal.

To enable those herein skilled to make and use my said invention, I will now more fully describe the same, referring to the accompanying—

Figure 1 as a front elevation; to

Figure 2 as a top plan; and to

Figure 3 as a part perspective elevation, showing the lower securing or lock-plate and its connections with the collar ends; to

Figure 4 as a section at line *x y*, showing the stuffing or packing of the collar.

In said figures—

A represents the body of the collar, composed of a wooden or similar stuffing, A', extending to the line *x y* and forming a solid padding, which is enveloped in the leather lining A<sup>2</sup>. The lining extends beyond the top of the wood stuffing to form a neck-yoke to rest upon the neck of the animal. The lining parts are joined by straps and buckles *a'*.

A suitable padding is placed within the lining A<sup>2</sup> above the wood stuffing A<sup>1</sup>; and, furthermore, to form an easy rest on the neck, a padding-piece, B, is placed under the joined end A of the main collar. This padding-piece is suitably secured by straps, as indicated in the figures.

Firmly secured to the front of the collar halves A by screws or similar means, I arrange the hame-plates C usually of iron.

At their upper ends are suitable buckles, *c*, by which a strap, *c'*, is arranged to connect the two plates C, and thus again join both halves of the collar.

To the hame-plates, and through them into the body of the collar A, I secure, in proper manner, the rings

or loops D, through which the reins of the harness may pass; and similarly the snap-hooks E are fastened for the traces either directly or by suitable laps or staples; and all the other necessary or usual rings or hooks, or other attachments, may readily be made through the hame-plates with the collar A, by driving the hooks or ring prongs into the wood packing of the collar, and using the hame-plate as an exterior strengthening strip.

The connection between the collar halves at the bottom is in the manner following:

Each part A has a proper staple, F, secured to it, and also a plate, G, the latter ending just below the end of the hame-plates C.

One of the plates G supports a staple-hinge, *g*, which secures the joint-plate H to the corresponding part of the collar. A pin, *h*, at the front end of the joint-plate, when the parts are in connection, drops into one of the holes *g'* of the plate G on the opposite collar half.

The plate H has the mortises *h'*, so that when the parts are joined the staples F project partly above the plate G, passing through the mortises thereof. An adjustment is made by using such of the mortises of plate H as are required.

At the lower ends of the hame-plates C are the buckles *i*, connecting with a strap, I. This strap will complete the joint between all parts, by passing above the joint-plate H through the staples F, as indicated in fig. 1. The upper surface of the hame-plates is suitably flanged to receive the strap I and fit neatly about the lower end of the collar.

The parts thus joined are securely held against the greatest strains that are usual upon harnessing, and the collar thus formed is durable and economical.

Having thus fully described my invention,

What I claim, is—

The parts A of the collar joined by plate H, combined with staples F, plates G, and straps I, substantially as set forth.

In testimony of said invention I have hereunto set my hand in the presence of—

JOSEPH ENGLAENDER.

Witnesses:

FRIEDOLIN RAUER,  
EWALD LUNGSTRAS.