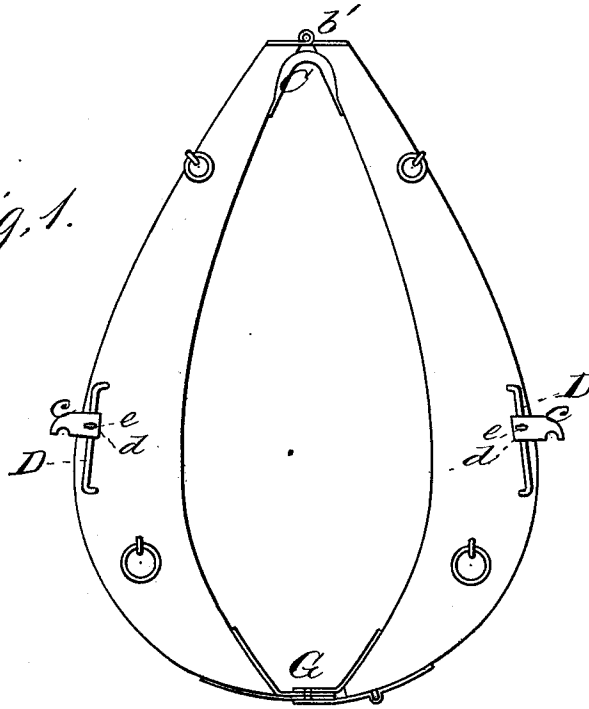


J. R. GORBY.  
Combined Collar and Hames.

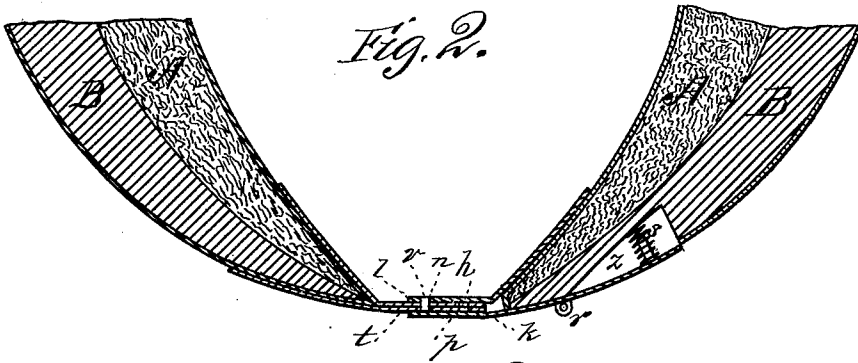
No. 200,710.

Patented Feb. 26, 1878.

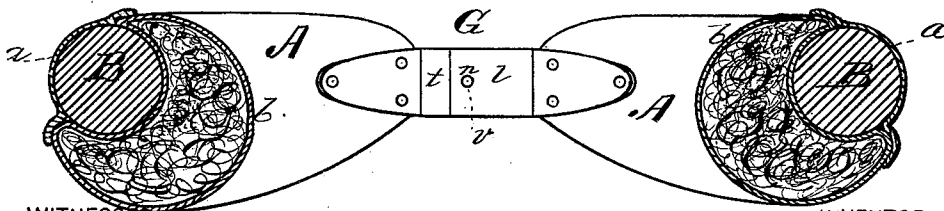
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



WITNESSES

*Mc. J. Utley.*  
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INVENTOR

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ATTORNEY

# UNITED STATES PATENT OFFICE.

JOHN R. GORBY, OF HIRAMSBURG, OHIO.

## IMPROVEMENT IN COMBINED COLLAR AND HAMES.

Specification forming part of Letters Patent No. **200,710**, dated February 26, 1878; application filed January 19, 1878.

*To all whom it may concern:*

Be it known that I, JOHN R. GORBY, of Hiramburg, in the county of Noble and State of Ohio, 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 a front view of my invention. Fig. 2 is a longitudinal section thereof, and Fig. 3 is a cross-section of the same.

This invention has relation to horse-collars and hames; and it consists, mainly, in the construction and novel arrangement of the wooden hame-sections within the collar, and covered by the incasement of zinc or leather, enveloping the whole, the slide-bars and the adjustable tugs thereon, the hinge secured to the upper ends of the hame-section, the pad underneath the same, fastened to one side of the collar only, and the spring-catch at the lower end, for securing the collar under the horse's neck, all as hereinafter shown and described.

In the accompanying drawings, the letter A designates the collar-sections, which are of zinc or leather, stuffed with straw and pressed into form.

B B represent the hame-sections, made of wood and laid in the collar-sections, and covered either with zinc or leather in front, so as to be included within the general contour of the collar-sections. In this construction it is preferred to cover the collar-sections first, and press recesses into them to receive the hame-sections, which are then faced with zinc or leather, the facing *a* being soldered or sewed to the covering *b* of the collar-section.

The fastenings at the top and bottom of the collar are attached to the wooden hame-sections. These, at their upper ends, are sawed off flush with each other, to receive the hinge *b'*. Underneath this hinged portion the A-shaped pad C, of zinc, is secured to one side of the collar, so that it will have a fixed and sta-

tionary position, whether the collar be open or closed.

D represents the slide-bars, the ends of which are driven into the hame-sections. Upon these bars are arranged the tugs *e*, which are capable of adjustment by sliding them up or down on the bars. Their adjustment is fixed by means of set-screws *e* passing through the barrels *d* of the tugs.

G represents the lower catch, whereby the sections of the collar are secured together under the horse's neck. This catch consists of a tongue portion, *t*, which is secured to one of the hame-sections, and which is provided with a series of adjustment-holes, *h*, and a clasp part, *k*. This latter portion is formed by an upper plate, *l*, provided with an aperture, *n*, and a lower plate, *p*, pivoted at *r* upon the lower edge of the hames, and having the general contour of the same in this portion. One end of this lower plate *p* is provided with a tooth, *v*, which is designed to pass through one of the perforations of the tongue *t* when the latter is inserted between the plates *l* and *p*. The other end forms a handle, and is supported in engagement by a spring, *s*, in a recess, *z*, in the hame, into which this end of the plate is pressed when it is desired to disengage the tooth *v* from the tongue *t*, so as to open the collar-sections.

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

The combined collar and hames, consisting of the wooden hame-sections within the collar, and covered by the incasement of zinc or leather, enveloping the whole, the slide-bars and the adjustable tugs thereon, the hinge secured to the upper ends of the hame-section, the pad underneath the same, fastened to one side of the collar only, and the spring-catch at the lower end, said catch adapted to secure the collar, substantially as specified.

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

JOHN RICHMOND GORBY.

Witnesses:

ABNER BARNHOUSE,  
GEO. E. WILLEY.