

# August Bratenober.

## Improvement in Horse Collars:

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PATENTED OCT 25 1870

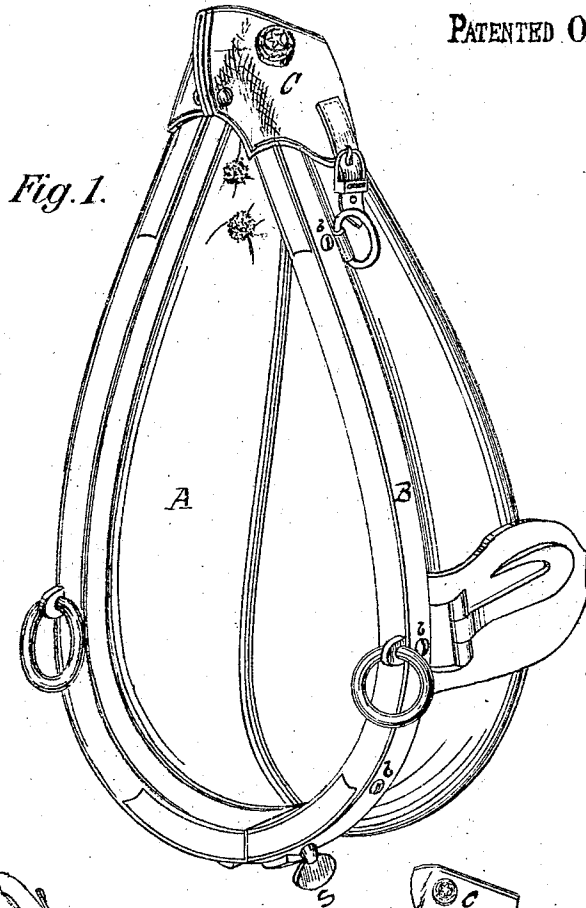


Fig. 1.

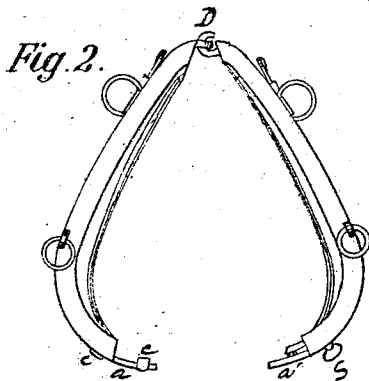


Fig. 2.

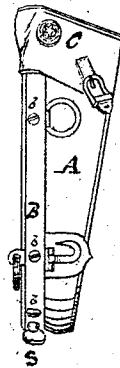


Fig. 3.

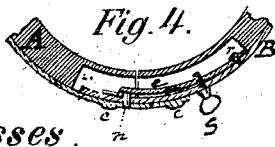


Fig. 4.

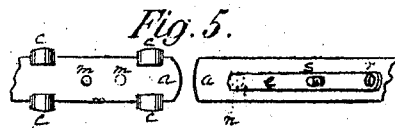


Fig. 5.

Witnesses  
 Georgie Evans  
 Fred. Astor



Fig. 6.

Inventor:  
 August Bratenober.  
 by his Attorneys  
 A.H. & R.H. Evans

# United States Patent Office.

AUGUST BRATNOBER, OF WEBSTER COUNTY, IOWA.

Letters Patent No. 108,559, dated October 25, 1870.

## IMPROVEMENT IN HORSE-COLLAR FASTENINGS.

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, AUGUST BRATNOBER, of Webster County and State of Iowa, have invented a new and useful Improvement in Horse-Collars, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a perspective view of my improved collar complete.

Figure 2 represents the collar open, showing the hinge at the top, and the locking device at the bottom.

Figure 3 is a side view of my collar.

Figure 4 is a sectional view of the lower part of the collar and of the locking device.

Figure 5 shows the lapping ends of the metal hames, with the device for locking.

Figure 6 represents a portion of the metal hames, with the locking-spring attached.

The object of my invention is to overcome the difficulties now experienced in adjusting horse-collars, and securing the hames thereto, and to save much valuable time which is often consumed in fastening and unfastening hames.

The principles of my improvement consist in securing the metal hames permanently to the collar; in hinging the hames at the top, and in securing them to the bottom by a locking-rivet, regulated by a spring and operated by a screw.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawing—

A is the collar, and

B the metal hames, securely fastened thereto by the screws *b b*.

C is a cap to secure the top of the collar from the effects of the weather.

D is the hinge-book, formed on the upper ends of the metal hames, by which the collar is allowed to swing open at the bottom for adjustment.

*a a* are the lower ends of the metal hames, which lap, as shown in fig. 4, and are secured in position by the locking-rivet *n*, catching in the adjusting-holes *m m*, from which it is again drawn by simply reversing the direction of the thumb-screw *S*, which controls the spring *e*, fig. 6.

*c c* are metal loops on the end *a* of the hames, into which slides the opposite end *a'*, and these loops securely brace together these opposite ends of the hames, while the locking-rivet *n* holds them in position.

From this description of my invention it is evident that a collar and hames thus made can be almost instantaneously adjusted and secured in position, and as quickly removed when desired, and this by means simple, cheap, and not liable to get out of order.

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

The loops *c c*, holes *m m*, in combination with the locking-rivet *n*, spring *e*, and set-screw *S*, when applied to a hinged collar, substantially as and for the purpose described.

AUGUST BRATNOBER.

Witnesses:

FRED. HESS,  
W. C. BAEHRING.