

F. HANNIG.
NECK-YOKE.

No. 195,006.

Patented Sept. 11, 1877.

Fig. 1.

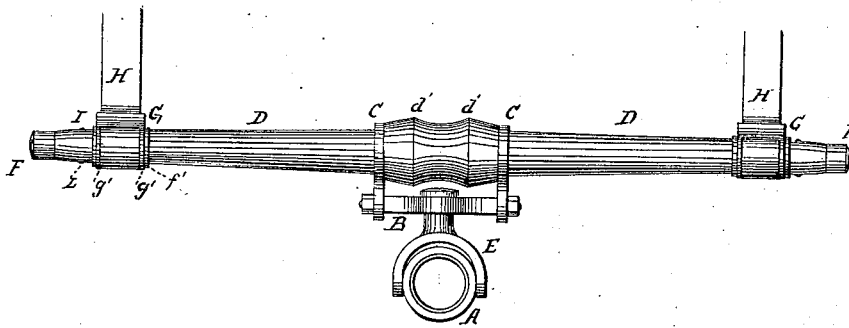
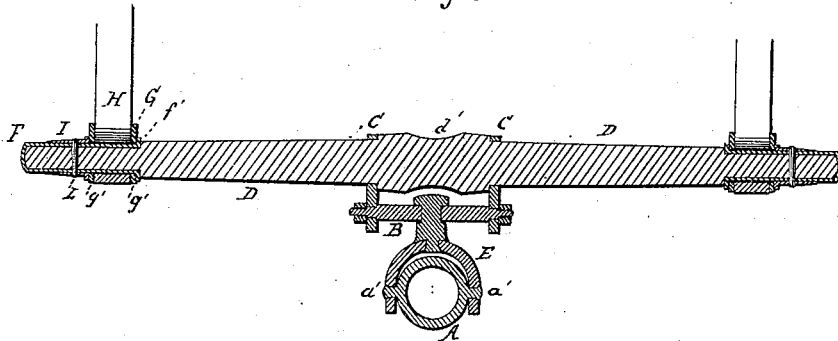


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANK HANNIG, OF LOCKHART, TEXAS.

IMPROVEMENT IN NECK-YOKES.

Specification forming part of Letters Patent No. 195,006, dated September 11, 1877; application filed July 23, 1877.

To all whom it may concern:

Be it known that I, FRANK HANNIG, of the town of Lockhart, in the county of Caldwell and State of Texas, 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 thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a front view of my improved neck-yoke, and Fig. 2 is a longitudinal vertical section through the center of the same.

My invention relates to the class of neck-yokes which have a swivel-joint connection with the carriage or wagon pole; and it consists, in the first place, of an improvement on the invention for which I obtained Letters Patent No. 183,846, dated October 31, 1876. This improvement consists in constructing the tube or ring which slips over the end of the carriage-pole with trunnions, and providing a half-ring, which supports the trunnions of the pole ring or tube, and is swiveled to the pivoted bar, as hereinafter described.

And my invention further consists of an improved tip for the ends of the neck-yoke, comprising a ferrule, a loop constructed with end rings which receive the barrel of the ferrule, around which the loop revolves freely, and a ring secured to the ferrule outside of the rings of the loop, for the purpose of securing them in place.

A is the ring that receives the end of the tongue, and it is made with the gudgeons or trunnions *a'*. E is a half-ring, the ends of which support the trunnions *a'*, and the center of which is swiveled to the cross-bar B. The ends of the bar B are pivoted to the lugs of the two rings C, which are slipped upon the neck-yoke D from its opposite ends, and are kept in place by resting against the shoulders of an enlargement, *d'*, formed upon the middle part of the neck-yoke D, the same as described and shown in my said patent of October 31, 1876.

F is a ferrule for the end of the neck-yoke,

made with the turned-up flange *f'*. G is a metal loop, through which the breast-strap H passes, and which is made with two rings, *g'*, projecting from the ends of the loop, so that when the rings are slipped over the ferrule F the loop G will be parallel with the neck-yoke. The ring I is placed on the ferrule outside of the rings *g'*, and a rivet, L, which passes through the ring I, ferrule F, and tenon on the end of the neck-yoke, retains the parts in place. The breast-strap H is passed through the loop G around the barrel of the ferrule between the rings *g'*, and then back through the loop G again.

The advantages of this construction of the tip are that, as the breast-strap can turn freely about the yoke, it cannot get tangled. The metal loop G takes the place of the sliding leather loops in common use, and is stronger, more durable and secure, and does not wear the leather strap as the stationary staples do. The rivet L, which secures all the parts, is outside of the breast-strap, so that the strength of the neck-yoke is not weakened by it.

By supporting the pole-ring A in the manner described the pressure of the ring on the end of the tongue or pole is equal and uniform on every part, and the tongue is not worn at the back of the ring A on the top, or on the under side by the front of the ring.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In combination with the neck-yoke, having the central enlargement *d'*, the rings C C having perforated ears, the pivoted bar B, the swiveled half-ring E, and the pivoted ring A, all as shown and described.

2. The improved tip for neck-yokes, consisting of the combination of the ferrule F, having flange *f'*, loop G with rings *g'*, and ring I, substantially as described, and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

FRANK HANNIG.

Witnesses:

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