

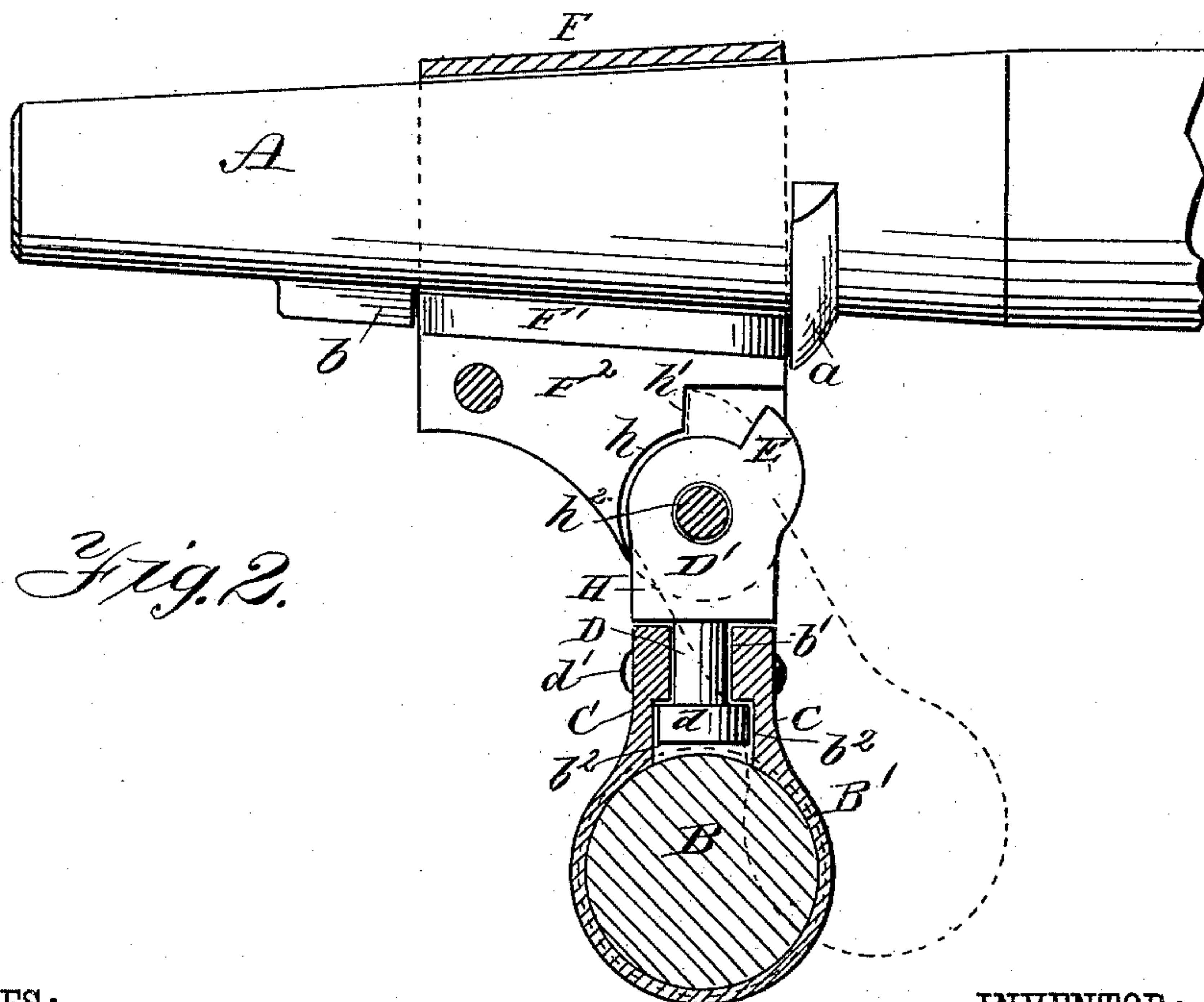
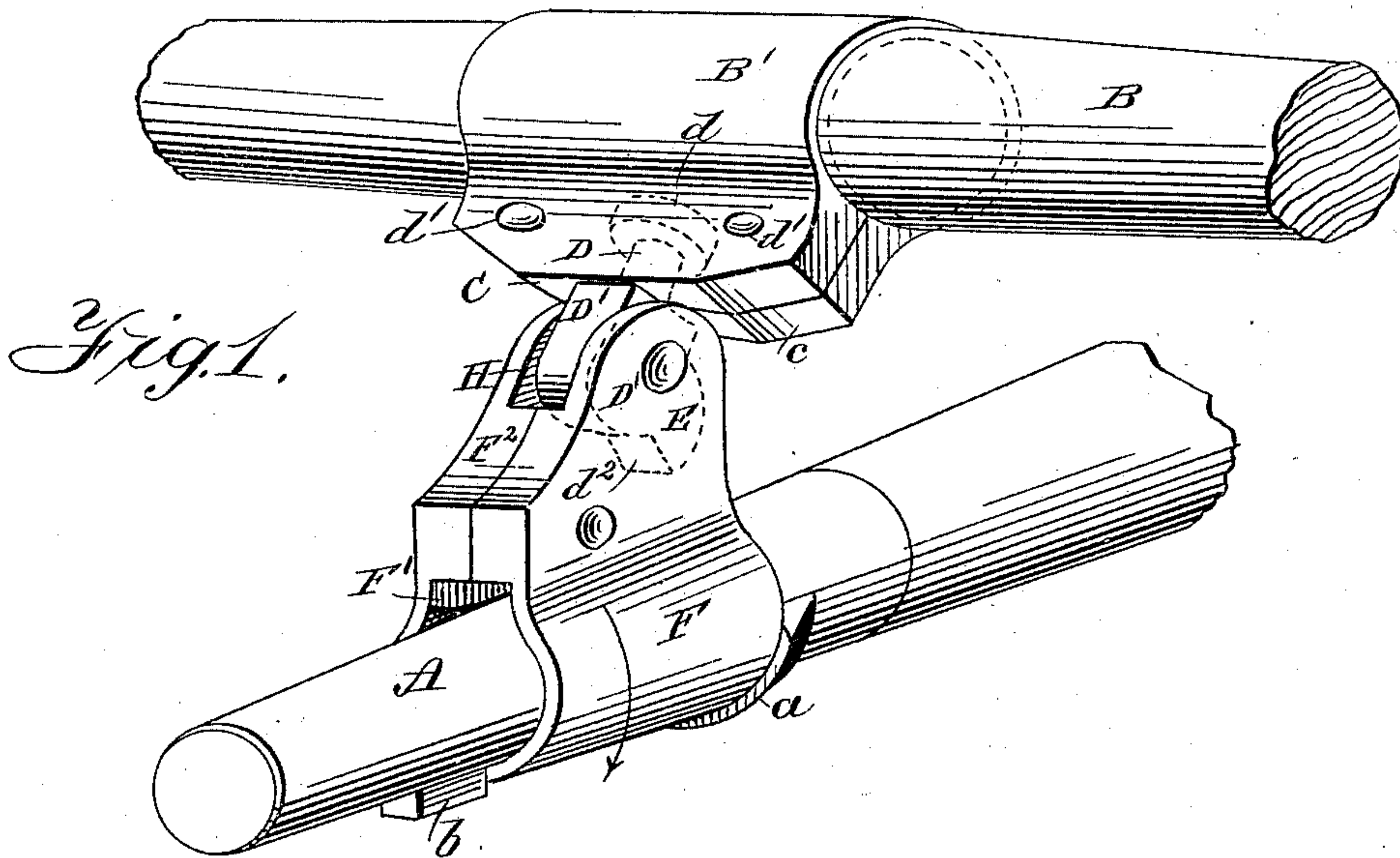
(No Model.)

F. F. WHEELER.

NECK YOKE.

No. 370,581.

Patente Sept. 27, 1887.



WITNESSES:

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FRED F. WHEELER, OF OCHEYEDAN, IOWA.

NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 370,581, dated September 27, 1887.

Application filed February 14, 1887. Serial No. 227,547. (No model.)

To all whom it may concern:

Be it known that I, FRED F. WHEELER, of Ocheyedan, in the county of Osceola and State of Iowa, have invented a new and Improved Neck-Yoke, of which the following is a full, clear, and exact description.

My invention relates to a neck-yoke, and has for its object to provide a yoke which in the event the tugs should become detached will not be slid off the pole by the forward motion of the horses, thereby preventing accidents; and wherein, also, the yoke may revolve freely horizontally or laterally upon the pole, yet action in the direction of the longitudinal axis of the said pole be limited in the forward or rearward throw of the yoke.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

Figure 1 is a perspective view of my yoke attached to a pole; and Fig. 2 is a central vertical section through the same, the said yoke being illustrated in position for detachment from the pole.

In carrying the invention into effect the pole-tip A is provided with a semicircular shoulder, *a*, having a flat face adapted to extend from the side beneath the said pole, and also a central lug, *b*, upon the under side, near the tip.

The yoke B is recessed centrally to receive a split sleeve, B', of iron, which sleeve is provided with the flanges C, having each the semicircular vertical groove *b'*, the one groove facing the other, so as to form jointly a central circular aperture, at the base of which aperture each of the aforesaid flanges is provided with a semicircular recess, *b''*, as indicated in Fig. 2.

A swivel-pin, D, is entered into the vertical aperture of the sleeve B', having the usual flattened head, *d*, adapted to enter the horizontal recesses *b''* of said sleeve, the divided edges of which sleeve are thereupon drawn together and secured by rivets *d'*. The swivel-pin D, which revolves readily in the sleeve B', is provided with an enlarged head, D', at its

other end, having flat sides and a semicircular outer edge, *d''*, the contour of which edge is broken by a lip, E, extending from said bottom edge and about in alignment with one side, as shown.

A clip, F, adapted to slide over the end of the pole-tip A, is provided with a longitudinal groove, F', cut in the under face of its jaws F², of sufficient width and depth to receive the lug *b* upon the pole. At the outer forward edge of the jaws F² a vertical recess, H, is formed in such manner as to provide a concave wall, *h*, terminating in a flat shoulder, *h'*, at the base.

To complete the coupling, the enlarged head D' of the swivel-pin is entered the said recess H, being pivoted therein by a bolt or rivet, *h''*, passing horizontally through the jaws, and also through an aperture in said head. The position of the head in the recess is illustrated in Fig. 2. The semicircular portion of the lower edge, *d''*, registers with the concave surface *h*, and the flat surface of the lip E faces the shoulder *h*.

In operation, when the yoke is to be attached to the pole, the clip F is entered over the tip of the pole, with the lower portion uppermost. The lug *b* will thereupon enter the longitudinal groove F', and the clip may be carried to a position between the aforesaid lug and the shoulder *a*, as shown in Fig. 2. The position of the clip may now be reversed by carrying the yoke upward to its normal position above the pole, where attachment is made to the harness in the usual manner.

It will be observed that the yoke is capable of a rotary motion upon the swivel-pin D and a lateral motion through the clip F, with which it is pivotally connected; and it will be further observed that by means of the head D' the forward and rearward motion of the yoke is limited, so that the said yoke is at all times elevated above the pole, yet free to turn in any direction.

It is evident that when the coupling is carried to its normal position the lug *b* upon the pole effectually prevents the clip from slipping therefrom. Therefore, should a trace break and the horses plunge forward, they will be held to the pole.

I am aware that it is not new to place a collar on the end of a wagon-tongue and connect

the said collar with a neck-yoke by means of a double swivel-joint, and I desire to disclaim such construction as broadly stated.

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

1. In a neck-yoke, the combination, with the pole-clip F, provided with a recess, H, having a shoulder, h' , formed therein, of the swivel-pin D, pivoted in said recess, provided with an enlarged head, D' , having an integral lip, E, and a split sleeve, B' , adapted to receive the yoke pivoted upon said pin, substantially as shown and described, whereby the yoke has an unlimited motion in all directions except longitudinally the pole, as set forth.

2. In a neck-yoke, the combination, with the pole-tip A, provided with the lug b and shoulder a , the clip F, adapted to revolve on said pole, having a longitudinal groove, F' , and a vertical recess, H, provided with a shoulder, h' , of the swivel-pin D, pivoted in said recess provided with an enlarged head, D' , having an integral lip, E, and a split sleeve, B' , adapted to receive the yoke pivoted upon said pin, substantially as shown and described, and for the purposes herein set forth.

3. In a neck-yoke, the combination, with the pole A, provided with a lug, b , and shoulder a , the clip F, adapted to revolve on said pole, having a longitudinal groove, F' , and a vertical recess, H, provided with a shoulder, h' , and a forward concave surface, h , of the swivel-pin D, pivoted in said recess, provided with an enlarged head, D' , having a semicircular edge, d^2 , and an integral lip, E, together with a split sleeve, B' , adapted to receive the yoke pivoted upon said pin, substantially as shown and described.

4. An attachment for neck-yokes, consisting of the split sleeve B' , adapted to receive the neck-yoke, the clip F, having jaws F^2 , the groove F' , and recess H, provided with the shoulder h' , and the swivel-pin D, held in the sleeve B' , having the head D' , provided with the lip E and pivoted in recess H, substantially as shown and described.

FRED F. WHEELER.

Witnesses:

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