

DOW & WILCOX.

Neck Yoke.

No. 76,609.

Patented April 14, 1868.

Fig. 1.

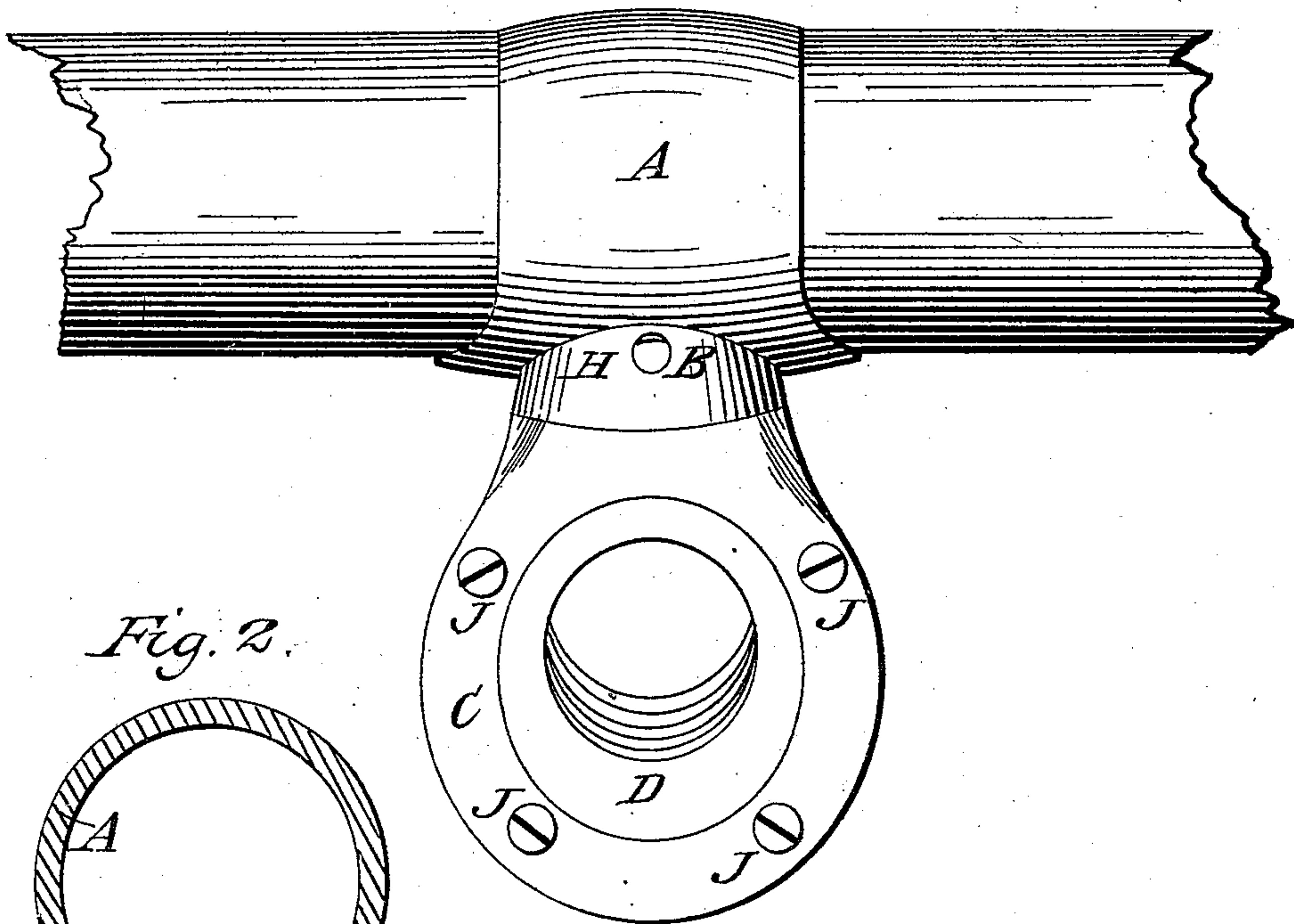


Fig. 2.

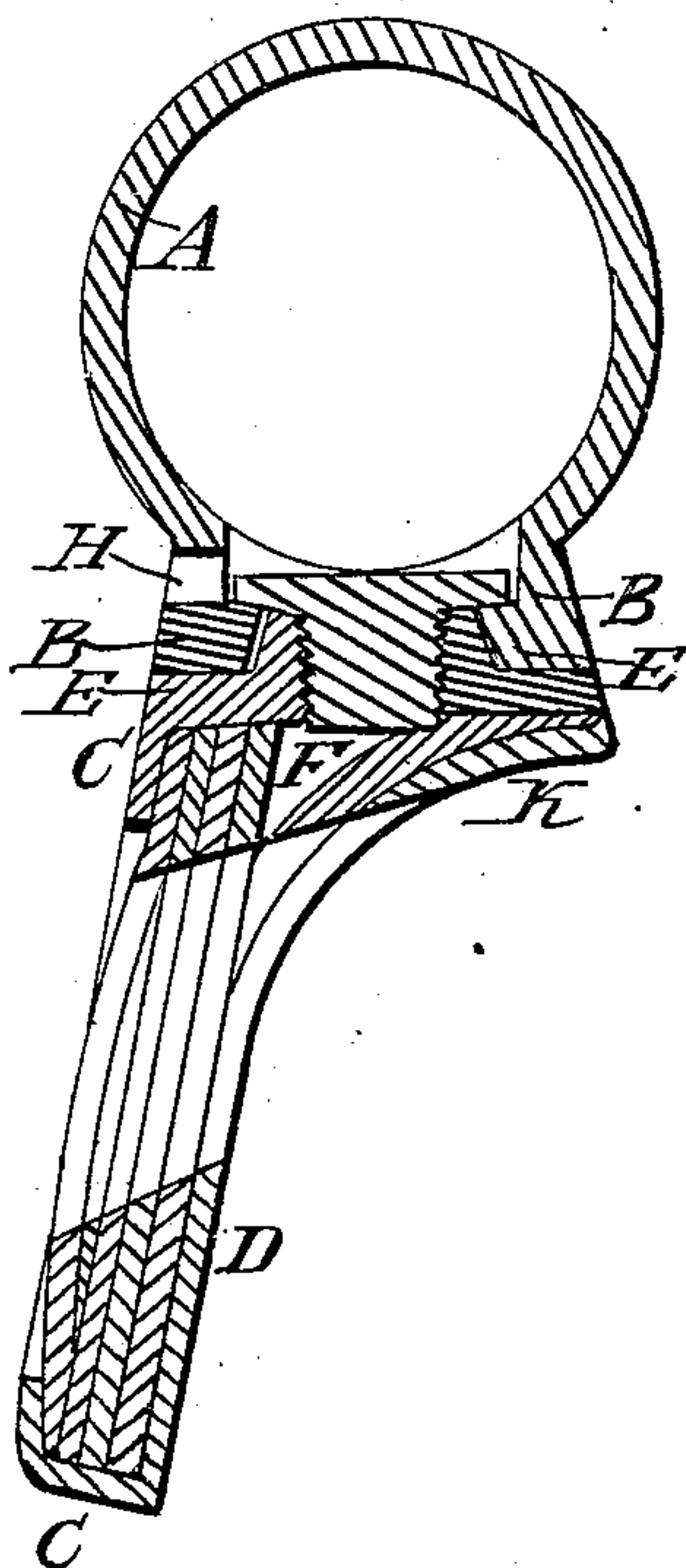
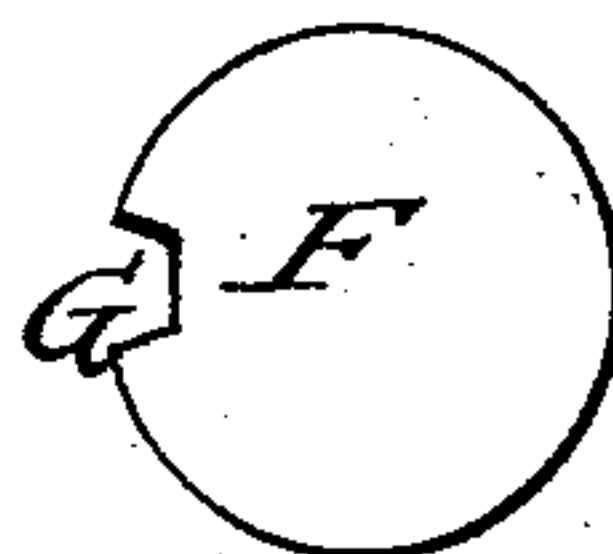


Fig. 3.



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ALBRO S. DOW AND ELIJAH W. WILCOX, OF CEDARVILLE, NEW YORK.

Letters Patent No. 76,609, dated April 14, 1868.

IMPROVEMENT IN NECK-YOKE.

The Schedule referred to in these Letters Patent and making part of the same.

Specification of certain Improvements in Neck-Yokes, invented by ALBRO S. DOW, and ELIJAH W. WILCOX, both of Cedarville, in the county of Herkimer, and State of New York.

Nature and Object of the Invention.

This invention relates to the device for connecting the neck-yoke to the pole of the carriage, by which invention it is made to work more satisfactorily, and prevented more effectually from wearing the tongue or pole of the carriage or other vehicle.

Said invention consists in,

First, forming the attachment, by which the cross-bar or body of the neck-yoke is connected to the pole with a swivel formed in the shank of the attachment, between the band which surrounds the neck-yoke and the part of the attachment which goes upon the pole or tongue, by which the backward and forward motion or vibration of the ends of the neck-yoke, to accommodate itself to the gait or motion of the team, is allowed without compelling the same vibration of the attachment upon the pole of the carriage, and at the same time the attachment is made strong and reliable.

Second, forming that part of the attachment which is intended to surround the pole of the carriage or other vehicle, and come in contact with it, of leather or some other yielding substance secured in a metallic strap or case, which supports it in front and at the edges, but is left open at the back side, said leather portion of the attachment being fastened in said case by screws, or equivalent device, which shall hold said leather in place without bearing at all upon the tongue.

Third, forming that portion of the attachment which rests upon the top of the tongue with a cushion of leather, or equivalent yielding substance, interposed between the metal and the tongue, whereby the abrasion of the tongue or pole is avoided, as hereinafter more fully set forth.

Description of the Drawings.

Figure 1 is a front view of the attachment containing the improvements above mentioned, and showing the central portion of the neck-yoke.

Figure 2 is a vertical central section of the same from front to back.

Figure 3 is a plan or top view of the Bolt, which forms the head of the swivel.

General Description.

A is the band, which embraces the central portion of the neck-yoke. We prefer to make this of cast malleable iron, and in the form represented in the drawings. It is provided with a socket, B, which forms part of the swivel above mentioned.

C is a strap or case, for holding the leather ring D. This strap or case C should also be made of malleable iron, though other materials may be used. Said strap C is formed with a projection, E, at its upper end, which extends upward into the socket B, as shown in fig. 2, and is secured there by the screw-bolt F, the head of which comes down upon the top of said projection, and operates in a similar manner to the well-known jam-nut, to prevent the bolt from turning in the projection E when in use. The head of this bolt, F, rests upon a shoulder formed in the socket B, as shown, and is provided with a notch, G, made in its periphery, as shown in fig. 3. A hole, H, is also made through the back or front of the socket B, through which hole a nail or other convenient appliance may be inserted into the notch G to hold the bolt from turning in the socket B, and allow it to be unscrewed by turning the strap C, when it is desirable to separate the parts for the purpose of more conveniently oiling the joint, or for any other reason, and the same device may be used in putting the parts together. In putting them together, care should be taken to screw the bolt-head down snugly upon the top of the cone or projection E, so much so that it will require more force to start it back than the friction to which it is subjected in use will be capable of exerting. D is a leather ring or pad, which is fitted into the metallic

strap or case C, and secured in position by screws, J J, or some equivalent device, so constructed and arranged as in no case to bear upon or come in contact with the pole.

The strap C supports the leather in front and at the edges, and as the pressure upon the leather is always forward against the case, the screws are quite sufficient to secure it in position.

A part of this leather is extended up and backward under the rounded part of the case, which comes immediately over the tongue or pole, as represented at K in fig. 2, forming a cushion between the back side of the upper part of the case C and the tongue, so as to protect the latter from abrasion upon the top.

Claims.

We claim as our invention—

1. Constructing the attachment, which connects the neck-yoke to the tongue or pole, with a swivel-joint, formed as described, that is to say, by the combination of the socket B, projection E, and bolt F, substantially as hereinbefore set forth.

2. The combination of the metallic strap or case C and the leather ring, or its equivalent, D, said case C being so constructed as to support the said ring D in front and at its edges, or beneath the pole, as described, said ring D being secured in position by screws, or other equivalent device, and the space behind said ring D being left open, substantially as described.

3. The combination of the pad K with the metallic ring, which embraces the pole or tongue, in such a manner as to interpose the said pad between the tongue and that portion of the case C which lies directly between the said tongue and the under side of the neck-yoke, substantially as and for the purpose set forth.

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Witnesses:

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