W. PERKINS.

OX YOKES.

No. 183,816. Patented Oct. 31, 1876.

Fig. 1.

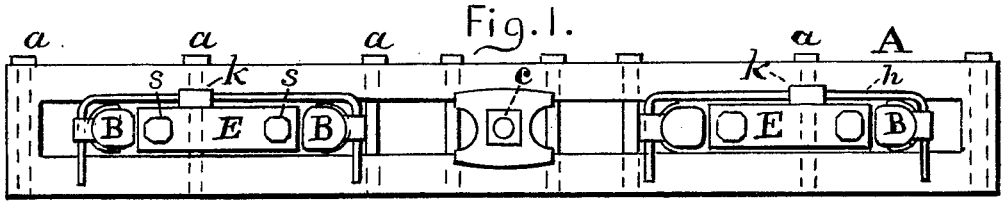


Fig. 2.

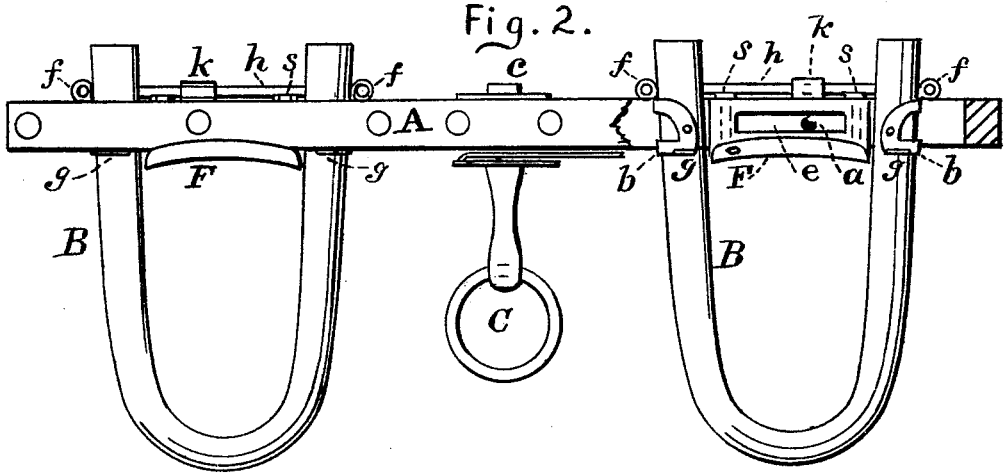


Fig. 3.

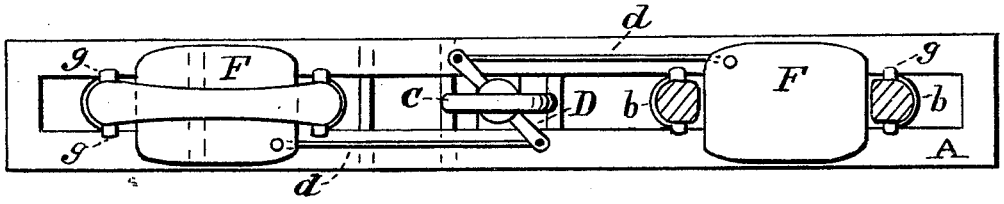


Fig. 4.

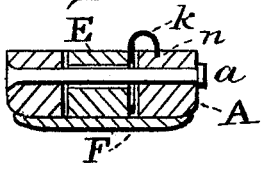
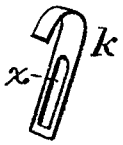


Fig. 5.



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UNITED STATES PATENT OFFICE.

WILLIAM PERKINS, OF PLYMPTON, MASSACHUSETTS.

IMPROVEMENT IN OX-YOKES.

Specification forming part of Letters Patent No. **183,816**, dated October 31, 1876; application filed November 23, 1875.

To all whom it may concern:

Be it known that I, WILLIAM PERKINS, of Plympton, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Ox-Yokes; and I do hereby declare that the following specification contains a full and exact description of the same, reference being had to the accompanying drawing, which forms a part of this specification, in which said drawing like letters indicate similar parts of the implement herein described.

The object of my invention is to secure the strength of the beam and bows of the yoke, and effect an even draft by causing an easy horizontal and reciprocal movement of the bows within the beam of the yoke; and said invention consists in certain improvements in the construction of ox-yokes, as hereinafter more fully shown and described.

In the drawing referred to as forming a part of this specification, Figure 1 is a top view of my improved yoke. Fig. 2 is a front view, a part being removed. Fig. 3 is a plan view of the under side. Fig. 4 is a cross-section through beam and sliding neck-piece described herein. Fig. 5 shows a guide (marked *k*) detached.

In the said drawing, A designates the beam of the yoke, made in two parts, secured by bolts *a*, a space being left between said parts, within which the bows B are placed, as shown. C indicates the draft-ring, held by the bolt *c* at the center of the beam. A lever, D, is pivoted at the center of the beam and on the under side thereof, two rods, *d*, connecting with the extremities of said lever, as plainly shown in Fig. 3. E is a sliding neck-piece, one being provided for each bow, and placed within the beam, as shown, and said neck-piece has a slot, *e*, through which one of the bolts *a* passes. F indicates two metallic neck-plates, which are secured by bolts *s* to the sliding neck-pieces and on the under sides thereof. As shown in Fig. 3, these neck-plates are connected with lever D by means of the rods *d*. Each of the bows B is provided with two devices or attachments, *b*, firmly fixed thereto, as shown in Fig. 2, an eye, *f*, being formed at the top of the device *b*, and the flanges *g* at the bottom. A guide-bar, *h*, is provided for each of the bows B, and is placed on the top of the beam A, the extremities of said bar turning rectangularly, and passing through the eyes *f* in the devices *b*, as shown in Fig. 1. Thus, the devices *b* serve to hold the bar *h* on the top of the beam, and the flanges *g* form guides along the under side of the beam. (See Fig. 3) The said bar *h* works through a guide, *k*, the latter being secured by the same bolt *a* which passes through the slot *e* in the sliding neck-piece E.

Figs. 4 and 5 illustrate the guide *k*, which has a slot or elongated aperture, *x*, through which the bolt *a* passes, the upper end of said guide forming a hook, the point of which rests in an incision, *n*, in beam A. The slot *x* allows the guide *k* to be pulled up, so as to remove the bar *h* when such is desired.

By this construction and combination of parts an easy reciprocating movement of the bows B is caused, the sliding neck-pieces E, with the plates F secured thereto, moving between the two sections of the beam A in a horizontal plane, being held by the devices *b*, and guided by the guide *k* and flanges *g*.

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

1. In combination with bow B of a yoke, the holding and guiding devices *b*, the guide-bar *h*, and guide *k*, as and for the purposes described.

2. In the yoke, the bows B, provided with the devices *b*, as shown, the guide-bar *h*, and guide *k*, in combination with sliding neck-pieces E, provided with the plates F, lever D, and connecting-rods *d*, as and for the purposes set forth.

WILLIAM PERKINS.

Witnesses:

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