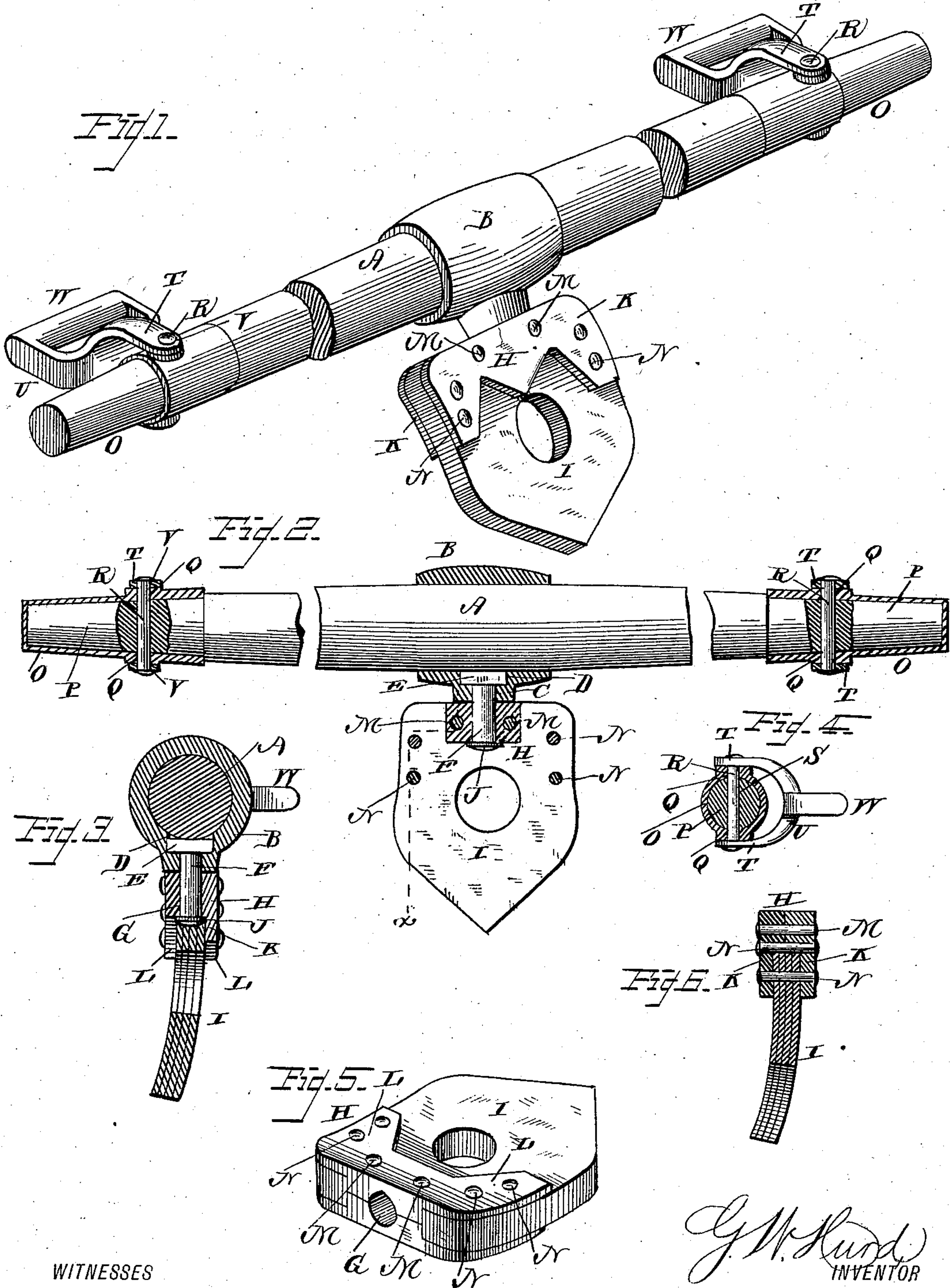


(No Model.)

G. W. HURD.
NECK YOKE.

No. 287,834.

Patented Nov. 6, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE W. HURD, OF MEADVILLE, MISSOURI.

NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 287,834, dated November 6, 1883.

Application filed July 17, 1883. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. HURD, a citizen of the United States, residing at Meadville, in the county of Linn and State of Missouri, have invented a new and useful Neck-Yoke, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to carriage neck-yokes; and its object is to provide a yoke possessing superior advantages in point of simplicity, inexpensiveness, durability, and general efficiency.

In the drawings, Figure 1 is a perspective view of a yoke embodying my improvements. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view taken through the center piece. Fig. 4 is a transverse sectional view taken through the end piece. Fig. 5 is a detail perspective view of the eye-piece that engages the tongue or pole. Fig. 6 is a sectional view of the eye-piece.

Referring to the drawings, A designates the yoke-bar, at the center of which is secured a collar, B, having an opening, C, that terminates in an interior square recess or socket, D, in which is received the corresponding head E of a swivel-bolt, F, that projects through the said opening and through a central perforation, G, in a clamp-block, H, that carries the eye-leather I, which goes over the end of the pole, the swivel-bolt being securely riveted over a washer, J, to retain the clamp-block in position.

The clamp-block is preferably formed by two half-plates, K K, having wings L, that bind the leather eye, these plates being riveted together by rivets M M, which clamp the plates against the leather, while additional rivets, N, are inserted through the wings L, to secure the leather in position. This clamp-block serves to prevent ripping or breaking of the eye-piece, and by means of the swivel movement of the said leather eye-piece the yoke can have a free swinging motion without twisting or displacing any of the parts.

O designates a cylindrical cap-piece, which

is inserted over the corresponding end, P, of the yoke, and is provided with diametrically-opposite perforations, Q Q, in its sides, through which passes a transverse pin or bolt, R, that also passes through a perforation, S, in the end P of the yoke, and serves to retain the end cap, O, in position and from turning. On the projecting ends of this bolt R are journaled the arms T T of a loop-piece, U, by means of perforations V V in the lower ends of said arms. The loop W, that is carried by the arms T T, is arranged at right angles to the latter and on the longitudinal plane of the yoke. By this arrangement the breast-strap, which is connected with the said loop W, has a free lateral swinging motion, and there is no friction either upon it or upon the yoke, as all the friction is thrown upon the bearing-bolt R.

The operation and advantages of my invention will be readily understood and appreciated. It is very simple in construction, and its parts can be readily adjusted in position, while it has a free and easy motion, and its durability is greatly enhanced.

I claim as my invention—

1. A neck-yoke having pins or bolts projecting from its surface, and a breast-strap loop journaled on said pin so as to have a swinging motion, substantially as and for the purpose set forth.

2. The combination of the yoke having the perforation through its end, the cap-piece arranged over the end, and provided with the perforations in its sides registering with the perforations through the end of the yoke, the transverse pin or bolt passed through these perforations, and the loop-piece comprising the loop and the perforated arms that are journaled on the projecting ends of the bolt, substantially as and for the purpose set forth.

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

GEORGE WASHINGTON HURD.

Witnesses:

D. N. SEVEY,

RICHARD J. JOHNSON.