

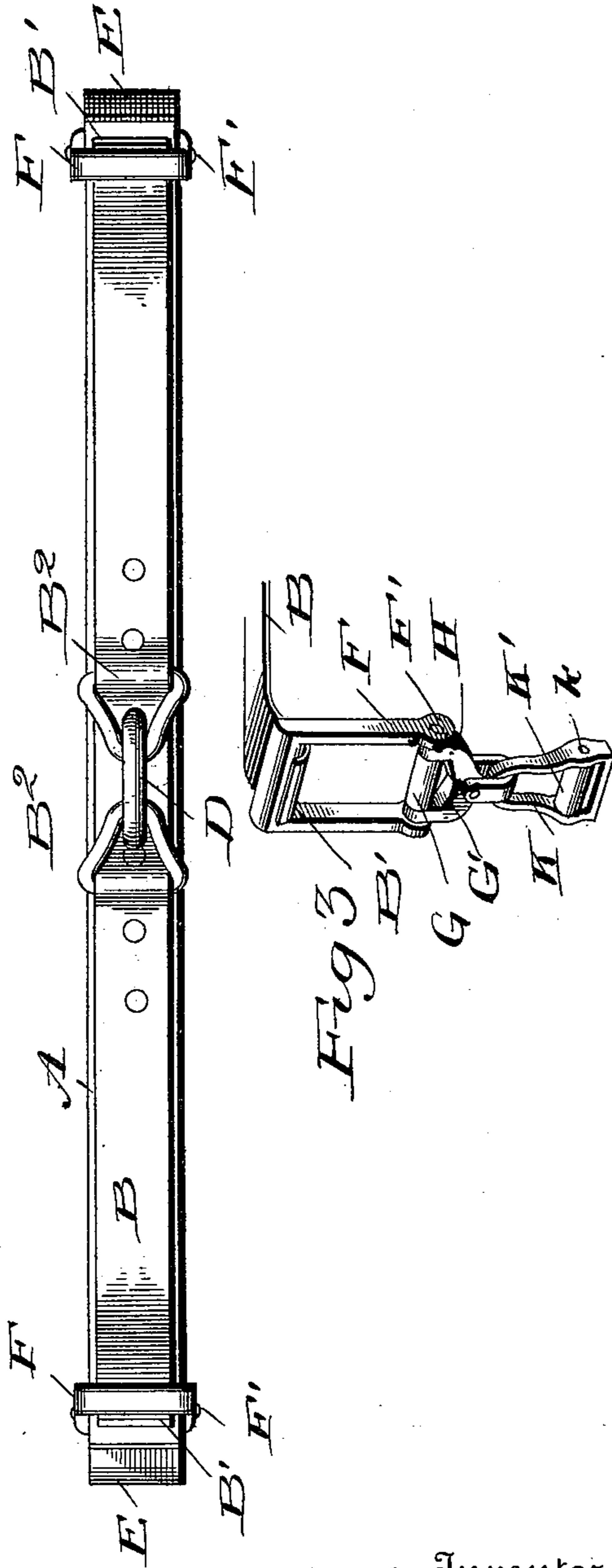
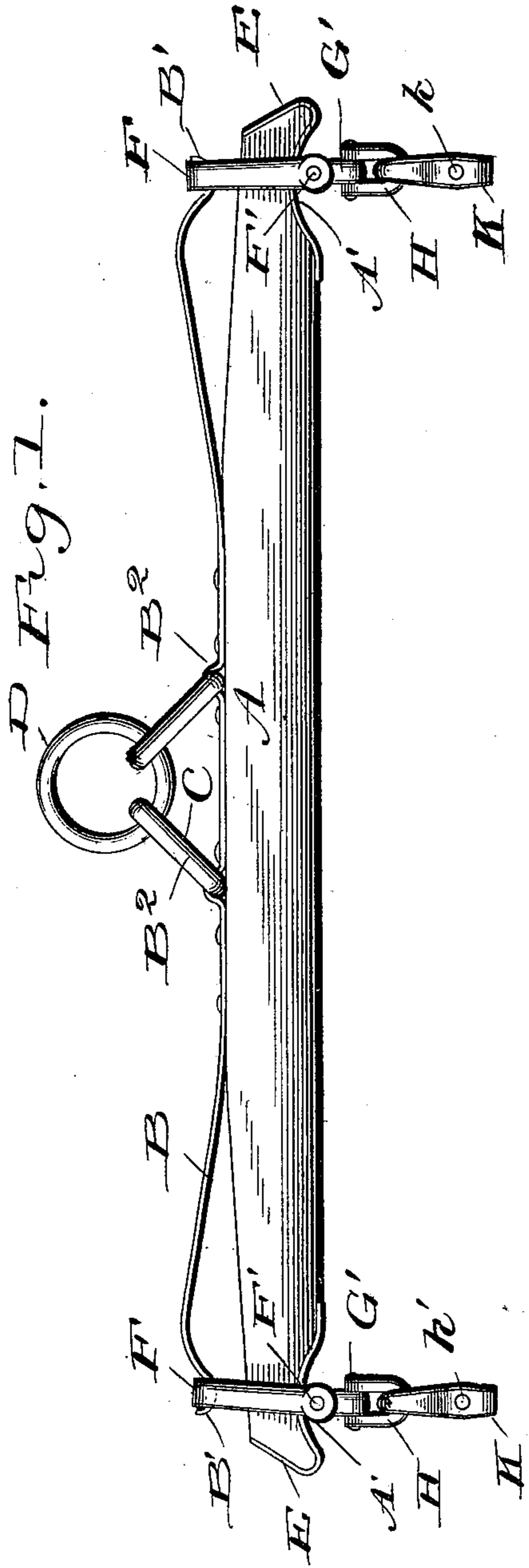
No. 631,264.

Patented Aug. 15, 1899.

R. F. KING.
NECK YOKE.

(Application filed June 15, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

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NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 631,264, dated August 15, 1899.

Application filed June 15, 1899. Serial No. 720,712. (No model.)

To all whom it may concern:

Be it known that I, ROBERT FREELAND KING, a citizen of the United States, residing at Bozeman, in the county of Gallatin and State of Montana, have invented certain new and useful Improvements in Neck-Yokes; and I do declare the following to be a full, clear, and exact description of the invention, such as 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.

This invention relates to new and useful improvements in neck-yokes, and particularly to a neck-yoke in which clevises are secured to a spring-bar forming a part of the neck-yoke, whereby vibrations may be taken up, and especially to the provisions of a neck-yoke having a continuous spring-bar with hooked ends which is secured to the neck-yoke, clevises supporting the pole-ring being mounted in grooved portions of said bar, while said hooked ends are designed to engage with clevises, to which the harness-straps may be secured.

The invention consists, further, in the provision of a neck-yoke having a spring-bar secured to the under side of the neck-yoke, with its free hooked ends engaging with clevises which carry antifriction-rollers on their pivotal pins, which engage in recesses on the upper edge of the neck-yoke, which recesses are covered by metallic straps, and the provision of a second clevis secured to each pivotal pin, which latter clevises are provided with antifriction-rollers, over which the straps are passed to secure the neck-yoke to the collar of the harness.

To these ends and to such others as the invention may pertain the same consists in the novel construction, combination, arrangement, and adaptation of parts, as will be hereinafter more fully described, and then specifically defined in the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this application, and in which drawings similar letters of reference indicate like parts throughout the several views, in which—

Figure 1 is a perspective view of my improved neck-yoke, showing the clevises attached thereto. Fig. 2 is a bottom plan view, and Fig. 3 is a detail view, of the clevises secured to one end of the neck-yoke.

Reference now being had to the details of the drawings by letter, A designates the neck-yoke, which is recessed, as at A', near its ends on its upper edge and has secured to its under face the spring bar or plate B, the ends of which are bent to form hooks B', while at locations B² are formed grooves or eyes, in which the clevises C are journaled. These two clevises are provided to support the pole-ring D.

The notches A' at the ends of the neck-yoke are covered by means of the metallic strips E, so as to protect the wooden part of the neck-yoke from wear. The clevises F are provided, which are passed over the ends of the neck-yoke, with their lower ends engaging in the hooks B' at the ends of the bar B, while their upper free arms are apertured and carry pins F', on which pins are journaled the antifriction-rollers G, which are adapted to bear against the upper faces of the straps covering the notches in the upper edge or face of the neck-yoke. Mounted on the said pivotal pin is a second clevis G', to which is pivoted a clevis H, which is provided to connect the clevis K to the clevis G. This clevis K is provided with an antifriction-roller K', mounted on the pin K, and over which roller the strap which is provided to attach the neck-yoke to the collar of the harness is passed.

By constructing a neck-yoke in accordance with my invention it will be observed that vibrations which are imparted to the neck-yoke through its connection with the pole of the vehicle will be taken up by the spring-bar, and the friction is reduced between the points of contact of the clevises and the ends of the neck-yoke.

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

1. A neck-yoke consisting of the body portion, a spring-bar secured thereto, grooves formed transversely in said bar, stirrups mounted in said grooves, and the pole-ring supported by said stirrups, as set forth.

2. A neck-yoke consisting of a body por-

tion, the spring-bar secured thereto, provided with hooked ends, clevises engaging with said hooked ends, with pivotal pins carried by said clevises, and antifriction-rollers on said pivots designed to be held yieldingly against the ends of the neck-yoke, as set forth.

3. A neck-yoke, having in combination with the body portion and continuous spring-bar with free hooked ends, the stirrups engaging with said hooks, the pivotal pins mounted in the ends of the stirrup-arms, the antifriction-rollers mounted on said pins, the notched portions on the upper faces of the neck-yoke and straps protecting the same in which notches said antifriction-rollers are normally held, as shown and described.

4. The combination with the neck-yoke, the spring-bar secured thereto, clevises engaging with the ends of said bar, the pivotal pins mounted in the ends of the arms of the clevises, antifriction-rollers mounted on said pins, the clevises having connection with said pivotal pins and the stirrups having antifriction-rollers connected to said clevises, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT FREELAND KING.

Witnesses:

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