No. 890,955. PATENTED JUNE 16, 1908.

J. B. BAXTER.

BREAST STRAP SNAP HOOK.

APPLICATION FILED NOV. 6, 1907.

Fig. 1.

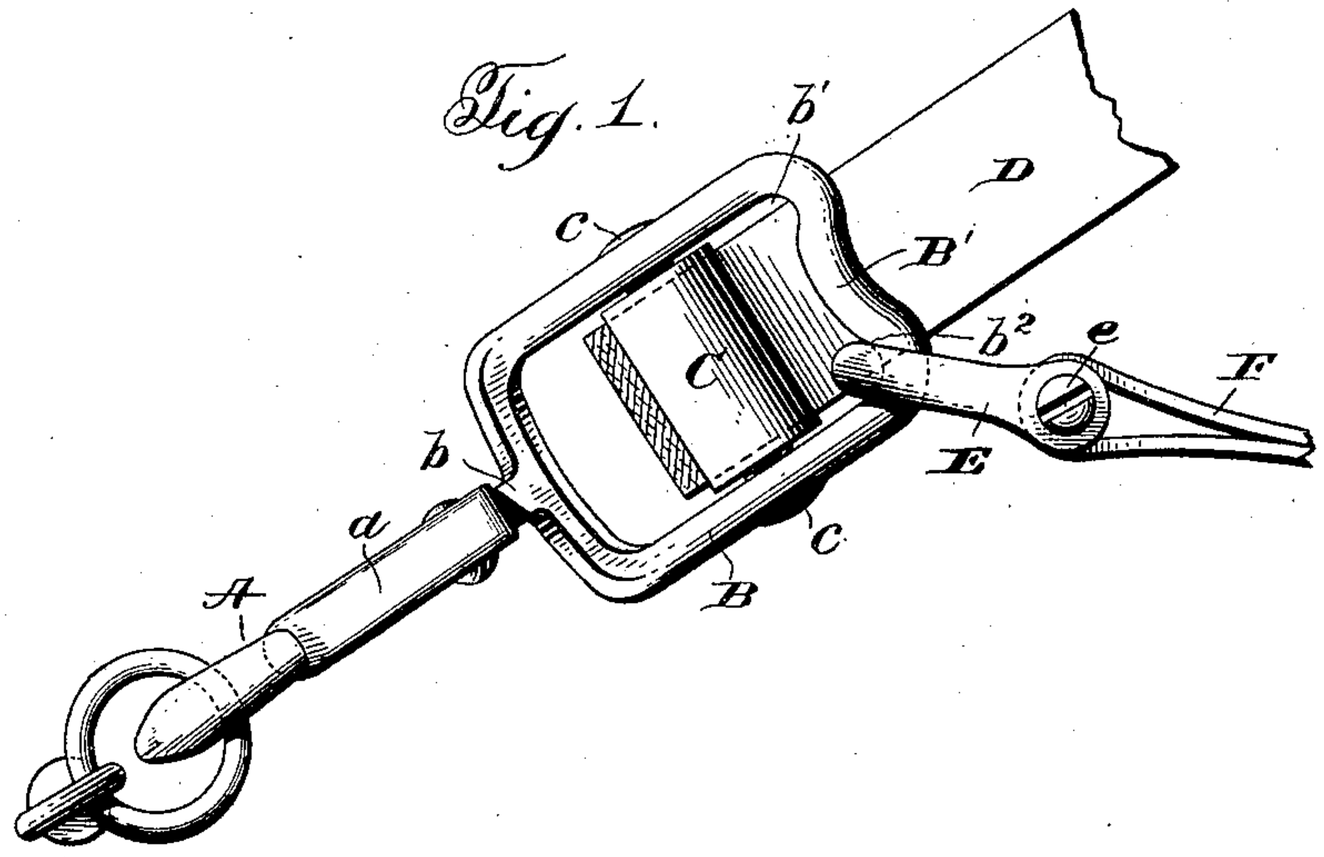


Fig. 2.

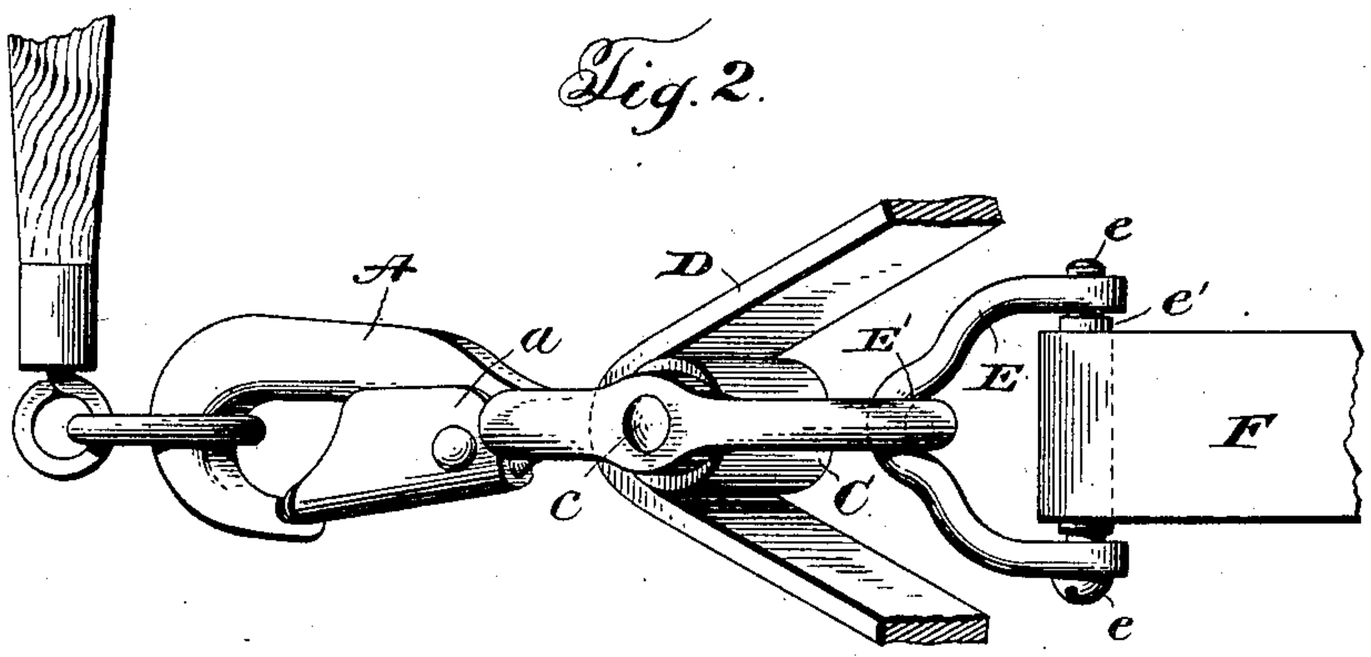
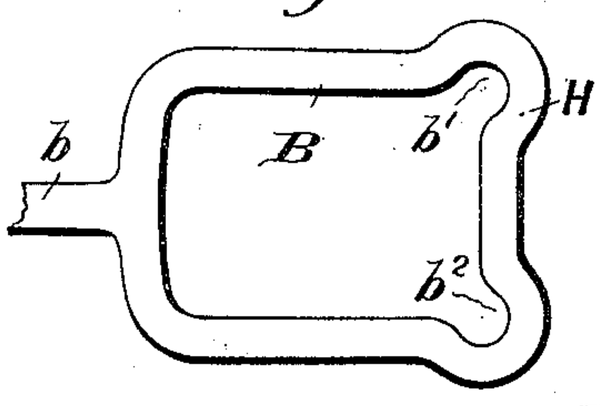


Fig. 3.



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UNITED STATES PATENT OFFICE.

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BREAST-STRAP SNAP-HOOK.

No. 890,955. Specification of Letters Patent. Patented June 16, 1908.

Application filed November 6, 1907. Serial No. 400,933.

To all whom it may concern:

Be it known that I, JOHN B. BAXTER, a citizen of the United States, residing at Watervliet, in the county of Albany and State of New York, have invented certain new and useful Improvements in Breast-Strap Snap-Hooks, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to an improvement in breast strap snap hooks designed more particularly for use in connection with breast straps for harnesses.

The invention is embodied in the construction and arrangement of parts presently to be described and defined in the claims.

Heretofore, in connecting the breast straps of harnesses with the loop or ring on the neck yoke, it has been customary to provide a hook having an eye somewhat elongated to form an open frame and between the side walls of the frame so constructed, a roller was positioned, the same being mounted on a suitable pintle. In such constructions, the breast strap is placed around the roller which forms an anti-friction bearing, thus preventing wear. In all such structures, it is necessary to provide some means of connecting the martingale with the snap and various expedients have been resorted to. In this latter connection, projections have been formed on the side of the body part of the hook and on the front part of the eye or frame part and with these projections the usual D or clevis connected to the martingale strap have been connected.

The above suggested constructions are objectionable, inasmuch as they require the application from one direction only, that is to say, the same snap hook cannot be used as a right if constructed for a left hand hook, the martingale connection always being from the lower side. Again, it has been found that in the former constructions the connection with the martingale is not as secure as should be and so somewhat difficult to make.

My invention is designed to overcome the objections heretofore existing and it consists generally in extending the frame part of the hook sufficiently to permit the insertion between the rear bar thereof and the roller and conveniently, but not necessarily, I provide a pocket or seat at the rear of the frame in which the martingale clevis or clip rests.

While I have shown the special form of snap, I do not wish to be understood as being limited to the construction shown and described, as variations can be made without departing from the nature and principle of the invention.

In the drawing, Figure 1, is a plan view of the snap showing it as applied to the neck yoke ring and the breast strap, the latter being shown in section, Fig. 2 is a view at right angles looking down on the construction shown in Fig. 1. Fig. 3 is a view of a modified form.

In the drawing, A designates the snap body having a keeper *a* and a shank *b* of known construction, B designates a substantially rectangular frame having arranged centrally therein an anti-friction roller C mounted on a pintle *c* secured to the side bars of the frame, D designates the breast strap passing around the anti-friction roller C. The end bar B′ of the frame B is positioned sufficiently back from the roller C as to permit the insertion of the clevis E, which latter is secured to the end of the martingale F. This end bar B′ is bent forwardly at its center portion to form at opposite ends like pockets *b′*, *b²*, of a curvature substantially that of the clip or clevis E. The clip or clevis is provided with a removable pin *e*, loosely surrounded by a sleeve *e′*, the pin being removable so that the clevis can be passed through between the end bar of the frame and the roller, as shown. I preferably form the clip or clevis E centrally into a curved pocket E′ which will normally rest in the pocket of the frame.

The construction thus far described represents a breast strap snap having an exceedingly simple form of means for attaching the clip or clevis of the martingale thereto and, as will be observed, provides an attaching point irrespective of whether the snap is used right or left. While I prefer to have the form shown wherein the pockets are provided, manifestly the invention comprehending, as it does, a rearward extension of the frame for a distance sufficient to permit the insertion between the end bar and the roller, of the clip or clevis, is an essential characteristic of the invention.

I have shown the application of the snap to the breast strap and its opposite end connected with the ring of the neck yoke, for the purpose of more clearly illustrating the application and utility of the invention.

In the modification shown in Fig. 3 of the drawings the so-called pockets are as at H, formed in part by bending the cross or end bar and in part by bending the end of the side bar. Of course while I have shown two forms of pocket construction, it is to be understood that other arrangements and positioning of the pockets can be had and still be within my invention. While I have shown a clip of D-shape obviously other forms of attaching means can be employed.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. The combination with a breast strap snap, of a substantially rectangular frame extending therefrom, and a breast strap supporting means connecting the side bars of said frame intermediate the ends thereof, the back bar of said frame constituting an attaching part for the clevis of a martingale strap.

2. In a breast strap hook, the combination with a hook, of a frame extending therefrom, and a transversely disposed breast strap roller journaled in the arms of said frame, one of the arms of the frame being extended rearwardly beyond said roller and provided with a pocket therein adapted to receive the clip of a martingale strap.

3. A breast strap snap hook, consisting of a hook part and a frame part extending rearwardly from the hook part, a roller journaled in the frame part and oppositely arranged curved pockets formed in the frame at the rear of the roller.

4. In a device of the character described, a substantially rectangular frame adapted for connection at its forward end to a vehicle pole, the rear bar of said frame constituting a supporting member for a martingale clevis and being provided with a pocket adjacent one end thereof, and breast strap supporting means connecting the side bars of said frame intermediate the ends thereof.

5. In a device of the character described, an open frame adapted for connection at its forward end to a vehicle pole, the rear part of said frame constituting a supporting member for a martingale clevis and being provided with curved pockets adjacent the ends thereof, and breast strap supporting means connecting the side bars of said frame intermediate the ends thereof.

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

JOHN B. BAXTER.

Witnesses:
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