No. 831,537. PATENTED SEPT. 25, 1906.

C. A. CORNELL.

ELASTIC CHECK LOOP.

APPLICATION FILED OCT. 9, 1905.

Fig 1

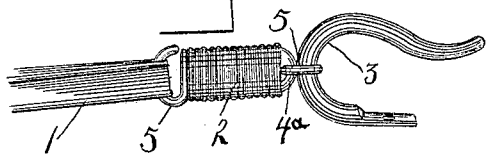
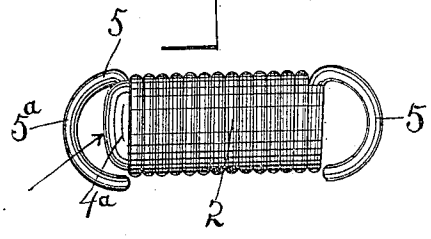


Fig 2



Elastic Cushion

Fig 3

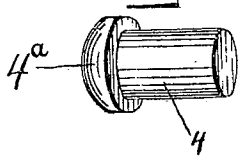
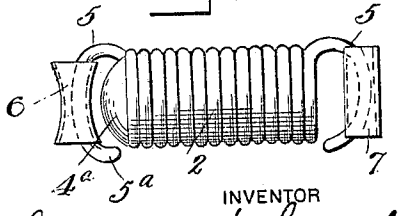


Fig 4



WITNESSES

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ELASTIC CHECK-LOOP.

No. 831,537. Specification of Letters Patent. Patented Sept. 25, 1906.

Application filed October 9, 1905. Serial No. 281,972.

To all whom it may concern:

Be it known that I, CHAUNCEY A. CORNELL, a citizen of the United States, residing at Pittsfield, in the county of Berkshire and State of Massachusetts, have invented certain new and useful Improvements in Elastic Check-Loops, of which the following is a specification.

This invention relates to elastic harness connections, and particularly to an improved means for connecting an overdraw or other check to a check-hook.

The principal objects of this invention are to provide an elastic check-loop which will ease the strain on the horse's mouth, expand when the horse stumbles, thereby preventing breakage of the check-hook and strap, and which cannot be thrown off of the hook by the horse.

Further objects of this invention are to provide an improved check-loop which can be used with ordinary check-hooks and which will be wholly free from unsightly appearance.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a part of a side-draw check-strap connected with a check-hook by an improved elastic connection. Fig. 2 is a perspective view of the elastic connecting means with end loop members arranged in the same plane for use with an overdraw-check. Fig. 3 is a perspective view of an elastic cushion which is inserted within one end of the elastic connection. Fig. 4 is a view of a modified form of the embodiment of the invention.

My improved check-loop consists, in its preferred embodiment, of a closely-coiled spiral spring 2, of spring-steel or similar elastic material, provided with strap or hook engaging loop members 5 at each end thereof.

Within one end of the spiral spring is disposed an elastic cushion 4, preferably of soft rubber. This cushion is frictionally held in position, as shown. The enlarged portion 4^a of the cushion 4 protrudes from the interior of the spring 2 to within a short distance of the outer portion 5^a of the loop member 5. This distance is such that when the said loop member is passed over the hook 3, as illustrated in Fig. 1 of the drawings, the cushion 4 will be engaged and compressed thereby.

In operation the side or overdraw check 1 is secured to one of the hook members 5, as illustrated. The other end of the spring 2, being first provided with an elastic cushion 4, as hereinbefore explained, is placed in engagement with the check-hook 3 by passing the loop member 5 thereover.

The cushion-head 4^a of the cushion 4 will be compressed by contact wth the outer portion of the hook 3, and the spring will be thereby securely held against accidental displacement, and all rattling due to the movement of the horse will be effectively prevented. While one end only of the spiral spring is shown as provided with a cushion, it is obvious that both ends may be thus provided, if desired.

For use with a side-draw check the end loop members 5 are preferably arranged at right angles to each other, while for use with an overdraw-check these members should lie in the same plane.

In order to prevent wear on the hook or strap connected with the spring member, in some instances ferrules, as 6 and 7, are employed, and these ferrules also provide larger and rotatable bearing-surfaces on the hook members of the spring for the strap or hook connection.

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

1. In a device of the character described, a coiled spring, a loop member carried thereby and an elastic cushion secured to the spring and extending within the space inclosed by the said loop member.

2. In a device of the character described, a coiled spring, loop members carried thereby at each end thereof and an elastic cushion frictionally engaged within the said spring at one end thereof, said cushion being provided with an enlarged head extending within the space inclosed by one of the said loop members.

3. In a checkrein connection, the combination with a coil-spring the ends of which are curved to form strap and hook engaging loops respectively, of an elastic cushion car-

ried by the body portion of said spring and extending into the space inclosed by the hook-engaging loop.

4. In a checkrein connection, the combination with a coil-spring the opposite ends of which are curved to form hook and strap engaging loops, of an elastic cushion having a shank adapted to be frictionally held within the body portion of said spring and having an enlarged head which lies within the space inclosed by the hook-engaging loop.

5. In a checkrein connection, the combination with a coil-spring the ends of which are bent to form hook and strap engaging loops, of a cushion frictionally held by said spring and having an enlarged portion which extends within the space inclosed by the hook-engaging loop and ferrules mounted upon said loops.

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

CHAUNCEY A. CORNELL.

Witnesses:
GEORGE H. FOSTER,
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