(No Model.)

C. H. SHULTZ.

CHECK HOOK EYE.

No. 515,798. Patented Mar. 6, 1894.

Fig. 1.

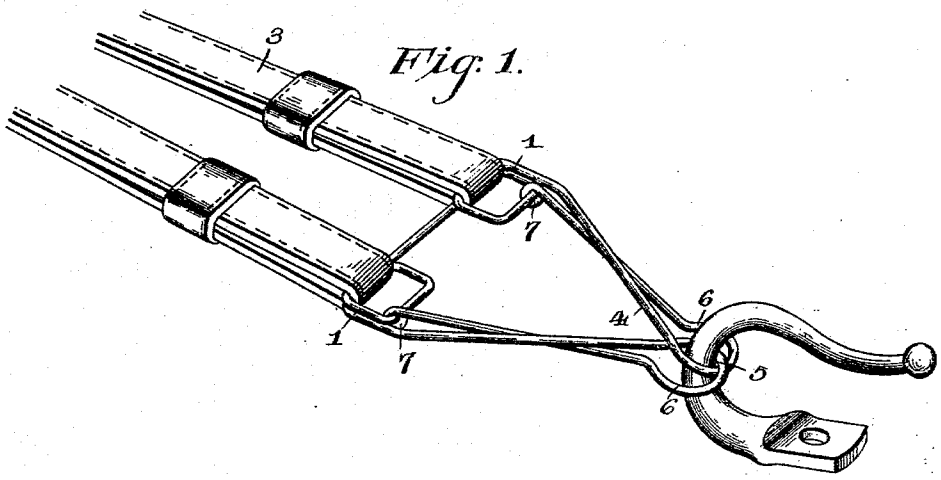


Fig. 2.

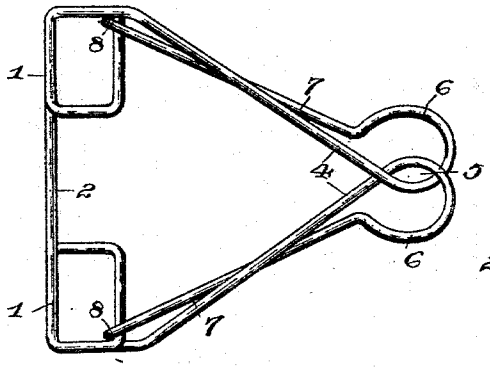


Fig. 3.

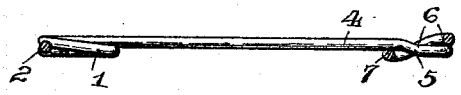
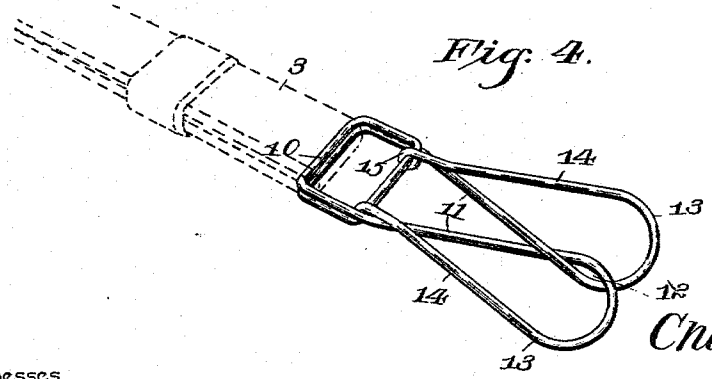


Fig. 4.



Witnesses
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CHARLES HENRY SHULTZ, OF VALENTINE, NEBRASKA, ASSIGNOR OF ONE-HALF TO JOHN W. WHILANS, OF SAME PLACE.

CHECK-HOOK EYE.

SPECIFICATION forming part of Letters Patent No. 515,798, dated March 6, 1894.

Application filed September 30, 1893. Serial No. 486,910. (No model.)

To all whom it may concern:

Be it known that I, CHARLES HENRY SHULTZ, a citizen of the United States, residing at Valentine, in the county of Cherry and State of Nebraska, have invented a new and useful Check-Hook Eye, of which the following is a specification.

My invention relates to improvements in check-hooks, the objects in view being to produce a cheap and simple eye or coupler for removably engaging the hook and designed to be applied to the rear end of the overdraw-strap; to construct the eye of spring-wire and to adapt it when connected with the hook to be secure and not liable to become displaced through accidents.

With these and other objects in view the invention consists in certain features of construction hereinafter specified and particularly pointed out in the claims.

Referring to the drawings:—Figure 1 is a perspective view of a check-hook, a portion of an overdraw strap, and an eye or coupler engaging the hook and secured to the strap and constructed in accordance with my invention. Fig. 2 is a detail in plan of the preferred form of eye or coupler. Fig. 3 is a longitudinal sectional view of the same. Fig. 4 is a detail in perspective of a modified construction of eye or coupler.

Like numerals of reference indicate like parts in all the figures of the drawings.

In practicing my invention I employ a blank of spring-wire of suitable gage and length, and by proper means coil the same at each side of its center, as at 1, whereby I produce an intermediate cross-bar 2 designed to be connected with the rear end of a side check-strap 3. By bending the blank as described I form opposite terminals 4 which are disposed inwardly to a common point in rear of the bar 2 and interlock, forming an intermediate check-hook engaging eye 5. These terminals are then bent upon themselves in an obtuse manner so as to form loops 6 at each side of the eye, after which they are inwardly bent and forwardly disposed, producing the engaging ends 7 which terminate in hooks 8 that are engaged over the rear sides of the coil 1. It will be seen that in order to engage the eye 5 of the coupler with the check-hook it is simply necessary to compress the two spring-members formed by the terminals 4, the loops 6, and the arms 7, so that the loops 6 are nearly brought into alignment with each other, thus enlarging the eye 5 and enabling the operator to pass the same readily over the end of the check-hook. When passed over the end of the check-hook and bolted to its position the spring-members are released, and the tendency being to separate causes the opposite sides of the eye 5 to engage snugly with the aforesaid hook and obviate any accidental displacement. Desired disengagement may be readily accomplished by simply compressing the two members in the manner before described, and slipping the coupling-device up over the end of the hook.

I have illustrated a modified construction or form of coupler, which, while embodying the principles of the one previously described, has its details slightly altered. In this modified construction I employ a blank of spring-wire in the same manner as before, but in lieu of coiling the same at opposite sides of the center form the coil 10 directly at the center. The terminals 11 are, as in the previous instance, converged rearward to a common point where they are interlocked, forming the check-hook engaging eye 12, are then diverged or bent obtusely in opposite directions forming the loop 13, and finally the forwardly disposed engaging-arms 14 which terminate in hooks 15, which engage the front portions of the coil 10. The overdraw-strap is connected to the eye 10 in lieu of the bar 2, as in the side check-strap hook. The operation is precisely the same as before described, in that the tendency of the coil 10 is to separate the spring-members, thus decreasing the size of the eye 12 and causing it to bind upon the check-hook. This binding may be relieved, however, by a compression of the members whereby the loops 13 are swung more nearly into alignment with each other.

From the foregoing description in connection with the accompanying drawings it will be seen that I have provided a very simple coupling-device designed to be readily applied to the rear end of the overdraw-strap in harness, and when so applied will form an effective coupler for the same with the check-hook,

the coupling operation as well as the uncoupling operation being readily carried on by a simple compression of the two spring-members so as to align the loops, thus enlarging the eyes 5 or 12 so as to readily receive or be disengaged from the check-hook.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

Having described my invention, what I claim is—

1. The herein described hook made of wire coiled at one end, having the opposite terminals extended outward but disposed inwardly so as to cross each other at a predetermined point, then formed into loops which are interlocked, then extended back to the starting point and having the ends of the terminals engaging with the coil, thereby forming two looped interlocking members, each of which is composed of two bars, the bars of each member crossing one another, and the inner bar of both members likewise crossing and interlocking, substantially as specified.

2. The herein described check-hook coupler, the same formed of spring-wire blank bent to form coils at its front end, and having its opposite terminals rearwardly disposed and bent to form interlocking loops, the ends of the terminals being forwardly disposed and terminating in hooks engaging the coils, substantially as specified.

3. The herein described check-hook coupler, the same consisting of a blank of spring-wire bent at each side of its center to produce the coils 1, and the intermediate cross-bar 2 for engaging the overdraw strap, the opposite terminals 4 being converged to a common point in rear of the bar 2 and bent to form the opposite loops 6 which interlock, and the ends of the terminals forwardly disposed as at 7 and terminating in hooks 8 engaging the coils 1, substantially as specified.

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

CHARLES HENRY SHULTZ.

Witnesses:
MILTON J. ARNER,
J. M. MILLER.