

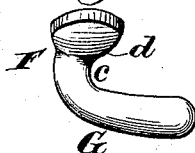
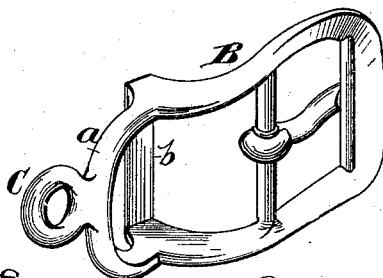
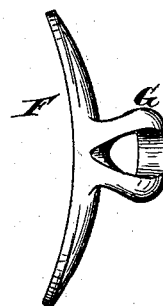
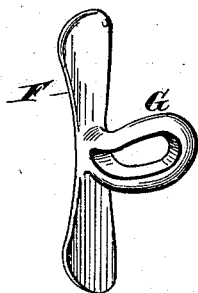
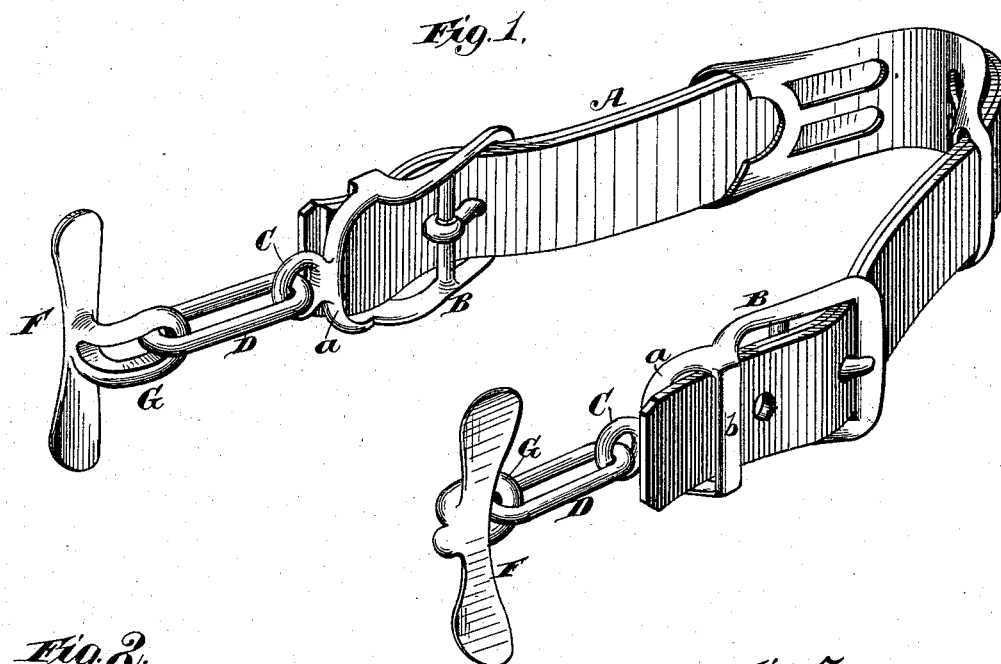
(Model.)

W. B. HAYDEN & C. H. ALLEN.

ATTACHMENT FOR NECK YOKE STRAPS AND CHAINS.

No. 264,830.

Patented Sept. 19, 1882.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM B. HAYDEN, OF COLUMBUS, OHIO, AND COTTON H. ALLEN, OF
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ATTACHMENT FOR NECK-YOKE STRAPS AND CHAINS.

SPECIFICATION forming part of Letters Patent No. 264,830, dated September 19, 1882.

Application filed June 27, 1882. (Model.)

To all whom it may concern:

Be it known that we, WILLIAM B. HAYDEN, a citizen of the United States, residing at Columbus, Franklin county, and State of Ohio, and COTTON H. ALLEN, a citizen of the United States, residing at St. Louis, in the county of St. Louis and State of Missouri, have invented new and useful Improvements in Toggles for Neck-Yoke Straps and Chains, of which the following is a specification.

The object of this invention is to provide an improved device for connecting the ends of a breast or neck-yoke strap with the rings of a harness-hame, the purpose being to provide a better, stronger, and more permanent connecting device than that heretofore afforded by the ordinary snap-hook, and to so form the said device that when connected with the hame-rings it will not injure the collar.

To this end our invention consists, first, in connecting the neck-yoke strap to the hame-ring by means of a toggle which is provided with an eye or link rigidly attached to or formed upon the central part of the toggle and curved sharply through an arc of about ninety degrees, so that the end of the link next the strap is at or about at right angles with the end to which the toggle is attached; secondly, in the combination, with a neck-yoke strap, of a buckle at each end thereof and a toggle connected with said buckle, either directly or by means of one, or more than one, intermediate links for forming a means of attachment to the hame.

Referring to the drawings, Figure 1 represents a neck-yoke strap provided with a buckle at each end, and having our improved toggle connected with each of said buckles. Fig. 2 is a perspective view of the toggle detached. Fig. 3 is an end elevation of the same. Fig. 4 is a view of the buckle applied to each end of the neck-yoke strap. Fig. 5 is an edge view of the toggle.

A indicates the breast or neck-yoke strap, which may be made in any suitable form. At each end of said strap is placed a buckle, B, (shown detached in Fig. 4,) which is provided with a strong lower cross-bar, *a*, having a central ring or eye, C, adapted to receive a link, D, for connecting the buckle with the toggle. Said buckle may also be provided with a cross-

plate, *b*, connected with a raised portion of the side bars of the buckle to receive and confine the end of the neck-yoke strap. The toggle, which is adapted to be connected with said buckle by means of an intermediate link, D, consists of a bar of metal, F, flattened and broadened toward each end, where it is also considerably thinner than in the middle, rounded upon its edges, and slightly curved or bowed, as shown in Fig. 2. Upon its convex surface, at the middle point of the toggle, is formed a link or eye, G, springing from a point nearer to one side of the toggle than the other, as seen in Fig. 3. At a short distance from its point of junction with the bar this link G is sharply bent at or nearly at right angles toward the side of the bar opposite that from which it springs, so as to form substantially a hooked portion, *c*, composed partly of the shorter end of the bent link, and partly of the edge *d* of the toggle. This eye G is adapted to receive the link D, by which the toggle is connected to the buckle B.

The breast-strap is connected with the hame by passing the toggle through the hame-ring, which will lie in the hooked recess *c*. Tension upon the strap will then be taken up, partly by the curved end of the link G and partly by the bar of the toggle. Moreover, the curvature of the link will hold the concave flat face of the toggle outward, the convex or curved face of the bar lying next to the collar, the ends thereof being thus held away from that portion of the harness, and in such a position as to avoid wear or injury of those parts.

The broadened ends of the toggle-bar aid in preventing it from escaping from the hame-ring or slipping from its position.

It is evident that this fastening is very strong and durable, and that it can be connected with or disconnected from the hame-ring with the greatest ease. It can also be manufactured cheaply and is in all respects superior to the form of devices heretofore used.

It should be noted that the particular form of toggle shown, while possessing many advantages peculiar to itself, is by no means an indispensable feature of our invention. A straight toggle-bar, either round or flattened, and similar to those heretofore in use, may be

substituted for the toggle shown in the accompanying drawings. Such a bar, provided with the curved link or eye G, would in substantial respects perform functions similar to those accomplished by the toggle hereinbefore described, and our invention contemplates the use of an ordinary straight toggle connected with the breast-strap by a link and buckle, as well as the employment of the particular form of toggle-bar invented and claimed by us.

It is evident that instead of a single intermediate link, D, two or more links may be used to connect the buckle B to the toggle; or an ordinary neck-yoke chain may be substituted.

This fastening is very simple, possesses great strength, will endure for many years without perceptible wear, and is efficient, secure, and ornamental.

It will be noticed that the peculiarity of the buckle consists in forming the eye and yoke as a continuation of the side bars of the buckle, so that the eye and the yoke connecting it with the side bars lies substantially in the same plane with the bar which carries the pivoted tongue, the result being that a strap when inserted in the buckle will be on the top above the exterior surface of the yoke and eye, that it will be interposed between the rear bar of the buckle and the yoke which carries the eye. These are important features of construction, and it enables the buckle, with its eye and yoke, to be used for various purposes.

What we claim is—

1. The combination, with a neck-yoke strap, of a buckle and a toggle-fastening connected

with said buckle by means of a curved eye formed upon said toggle, substantially as described.

2. The combination, with a neck-yoke strap, of a buckle provided with an eye upon its lower bar and a toggle connected with said eye by a link or links, substantially as described.

3. A toggle for neck-yoke straps, having a centrally-attached curved link or eye, whereby it is adapted to be connected by means of a link with the said strap, substantially as described.

4. The combination, with the neck-yoke strap, of the buckles at each end, provided with an eye to receive a link and the toggles connected with said links by a bent eye or link formed on or attached rigidly to said toggles, substantially as described.

5. The buckle described, having the side bars extended to form the yoke and eye in substantially the same plane as the side bars, and provided with the two top cross-bars and the central cross-bar carrying the pivoted tongue, all constructed and arranged so that when a strap of sufficient length is inserted the yoke and eye will lie behind the strap, as set forth.

In testimony whereof we have hereunto set our hands in the presence of two subscribing witnesses.

WILLIAM B. HAYDEN.
COTTON H. ALLEN.

Witnesses:

W. P. LITTLE,
LORENZO D. HAGERTY.