

No. 648,373.

Patented May 1, 1900.

I. L. BAKER.
NECK YOKE ATTACHMENT.

(Application filed Feb. 16, 1900.)

(No Model.)

Fig. 1.

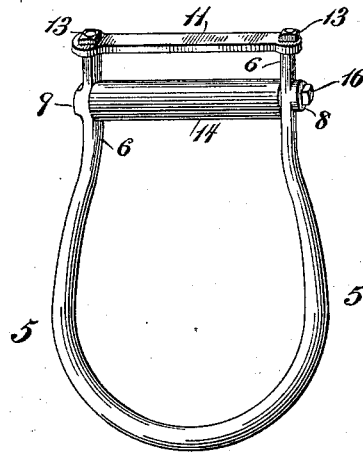
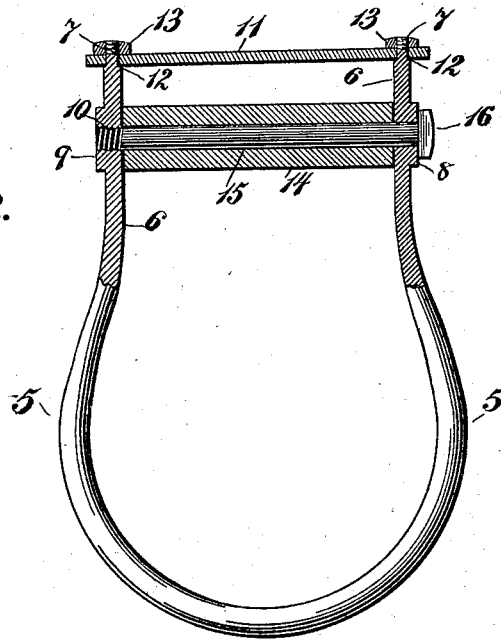


Fig. 2.



Witnesses

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NECK-YOKE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 648,373, dated May 1, 1900.

Application filed February 16, 1900. Serial No. 5,508. (No model.)

To all whom it may concern:

Be it known that I, IRA L. BAKER, a citizen of the United States, residing at Coalgate, in the Choctaw Nation, Indian Territory, have invented a new and useful Neck-Yoke Attachment, of which the following is a specification.

My invention relates to attachments for neck-yokes; and one object in view is to provide an article which may be easily applied to any ordinary neck-yoke for use in connection with the usual ferrule thereon and without requiring especial construction, as is common in many neck-yoke attachments.

A further object is to provide such an attachable device which is so constructed that the strain of the hames-strap shifts with the pull irrespective of the direction of the line of draft, so that the pull on the attachment is direct and the edges of the hames-strap are not subjected to wear.

Further objects and advantages of the invention will appear in the course of the subjoined description, and the novelty in the construction and arrangement of parts will be defined by the claims.

In the drawings, Figure 1 is a perspective view of a neck-yoke attachment embodying my invention. Fig. 2 is a sectional elevation thereof.

The same numerals are used to designate like parts in both figures of the drawings.

The neck-yoke attachment of my invention includes a clip 5, which is made of a single piece of metal, preferably malleable iron. This clip has a curved or bowed end which is extended to form the parallel flat arms 6, the same being spaced a proper distance apart and forming an open end to the clip for the purpose of enabling the same to be readily fitted to any ordinary neck-yoke in a manner to engage with the usual ferrule of such neck-yoke. The parallel arms 6 are reduced in size to form the rounded extended studs 7, which are externally threaded, and on the outer faces of the arms are formed the bosses or enlargements 8 9, the same being disposed at suitable distances from the threaded studs and arranged in alinement with each other transversely across the clip. The boss 8 is

provided with a smooth transverse opening; but the opening in the boss 9 is provided with a female thread 10.

The open-ended clip is closed by means of a plate 11, which is provided near its end portions with transverse apertures 12, adapted to receive the threaded studs 7 of the clip. This plate when fitted to the studs bears against the shoulders of the parallel arms 6, and nuts 13 are screwed on the threaded studs and engage with the plate to hold the latter firmly in place against the shoulders of the arms.

14 designates an antifriction-roller which is arranged between the parallel arms 6 of the clip and in alinement with the openings in the bosses 8 9. This roller is loosely mounted on a screw 15, which is provided with the head 16, adapted to bear against the boss 8. The threaded end of the screw engages with the threads in the aperture 10 of the boss 9, and the screw is thus firmly held in place, so as to support the roller in position for free rotation on its axis. The roller is disposed parallel to the clip-plate in a manner to form an intermediate keeper space or slot, and around this roller the hames-straps are adapted to pass in the usual way.

I attach especial importance to the employment of the removable clip-plate, the means for securely fastening the same in position to span the space at the open end of the clip, and the means for supporting the roller removably in place between the arms of the clip. This construction provides for the removal of both the clip-plate and the roller, so that a clear unobstructed open space is formed at the free end of the clip, whereby the latter may be easily applied to an ordinary neck-yoke for use in connection with the usual ferrule. My construction does not require the service of a special ferrule, which is one of the objections to ordinary neck-yoke attachments. The nuts for holding the clip-plate and the screw which supports the roller occupy such positions and the strain while the device is in service is so diverted to other parts of the clip that there is no liability of either the nuts or the screw working loose.

It is to be observed that there is no shoul-

der within the clip or frame of my attachment, and hence the strain of the hames-strap shifts with the pull no matter what direction the line of draft comes on the attachment, whereby the draft is always direct on the clip, and the edges of the hames-straps are not exposed to wear, as in other devices.

My improvement is distinguished from other devices in that it is strictly an attachment for any kind of a neck-yoke and for use in connection with the usual ferrule. The device is easily attached in any position and can be readily repaired at a trifling expense. The device is extremely efficient in operation and durable in use. By reason of its simplicity the attachment can be manufactured at a very low cost, and as a matter of fact my attachment is cheaper than an ordinary roller-snap.

Having thus described the invention, what I claim is—

1. As a new article of manufacture, a neck-yoke attachment comprising a clip having parallel arms arranged to form an open end, a clip-plate secured removably to said arms to span the space at the open end of the clip,

and a roller mounted removably in the clip and within the removable plate, whereby the clip-plate firmly braces the divided end of the clip, and the clip-plate and roller are both removable to leave an unobstructed opening through the clip, substantially as described.

2. As a new article of manufacture, a neck-yoke attachment comprising a clip having the parallel arms arranged to form an open end and provided with the extended threaded studs, a plate fitted removably to said studs and spanning the space at the open end of the clip, nuts screwed on the studs and binding the plate firmly against the clip, a roller between the arms of the yoke or clip and parallel to the plate, and a screw supporting the roller and connected removably to the clip-arms, substantially as described.

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

IRA L. BAKER.

Witnesses:

GEO. E. JAHN,
OLIVE J. ROMANS.