

H. KEYES.  
Neck-Yoke Strap.

No. 212,804.

Patented Mar. 4, 1879.

Fig. 3

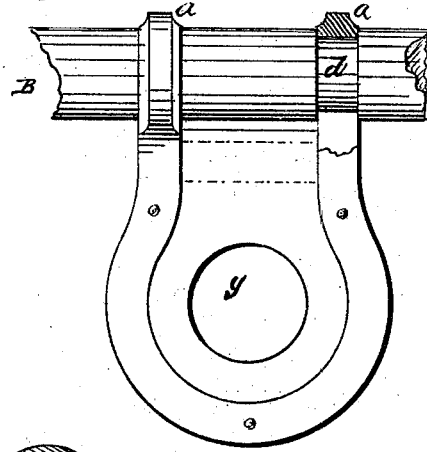
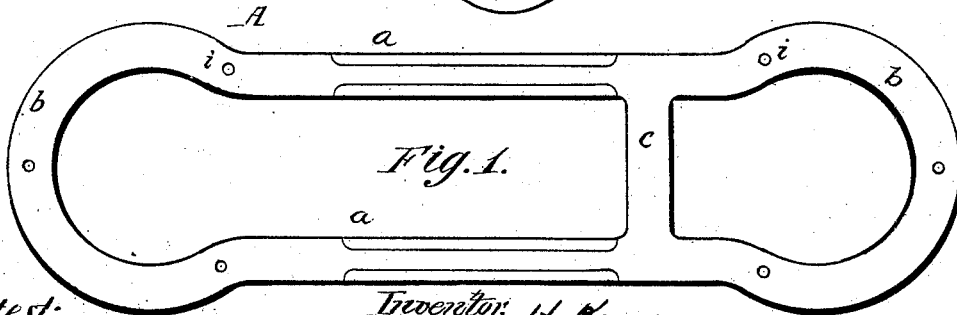
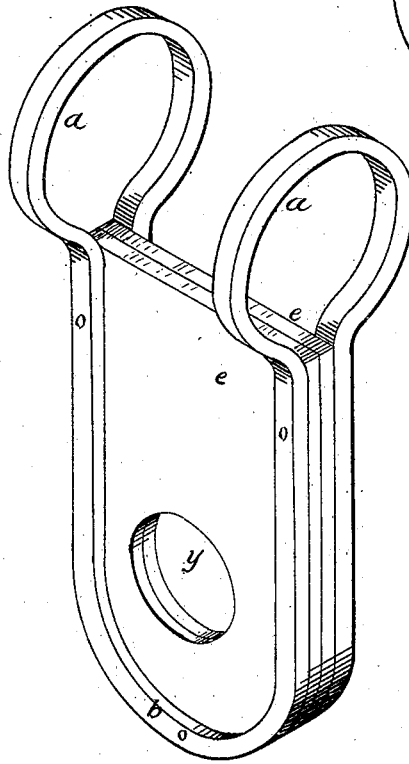


Fig. 2



Attest:

Inventor: H. Keyes

By his attorney  
Charles E. Foster

Benjamin  
Ed. Melch.

# UNITED STATES PATENT OFFICE.

HORATIO KEYES, OF TERRE HAUTE, INDIANA.

## IMPROVEMENT IN NECK-YOKE STRAPS.

Specification forming part of Letters Patent No. **212,804**, dated March 4, 1879; application filed February 4, 1879.

*To all whom it may concern:*

Be it known that I, HORATIO KEYES, of Terre Haute, Vigo county, Indiana, have invented an Improved Neck-Yoke Strap, of which the following is a specification:

My invention is a neck-yoke strap constructed as fully described hereinafter, so as to be readily applied to the yoke and secure a strong and durable attachment to the yoke and to the leather socket-piece.

In the drawings which form part of this specification, Figure 1 is a plan of the metal frame of the strap; Fig. 2, a perspective view, showing the frame bent and clamped to the leather socket-piece; and Fig. 3, a front view, showing the strap secured to the yoke.

A represents a metal frame, consisting of side strips, *a*, rounded ends *b*, and cross-piece *c*, the same being cast of brass or other metal capable of being cast and afterward of being bent.

The yoke has two contiguous annular recesses, *d*, adapted to receive the side pieces, *a*, of the frame, which, after being introduced into said recesses, are bent round so as to nearly fill the same, bringing the opposite ends of the frame parallel to each other, as shown in Fig. 2.

Leather strips *e* are now introduced between the ends of the frame, clamped between the latter, and secured by bolts or rivets *i*, each strip of leather being perforated to form a socket, *y*, for the end of the pole.

The strap thus constructed is light in weight, is easily cast without the use of cores, grips the yoke so that it cannot be detached without breaking one or the other, and affords the requisite rigid supporting-frame for the socketed leather piece *e*, while the attachment to the yoke is such that the latter may turn, if necessary, but any lateral motion is impossible.

I claim—

The combination of the yoke having two annular recesses, *d*, and the cast-metal frame A, having side pieces, *a*, bent and fitting said recesses, and clamping the socketed leather strips *e e*, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HORATIO KEYES.

Witnesses:

ISAAC H. ROYSE,  
JAY H. KEYES.