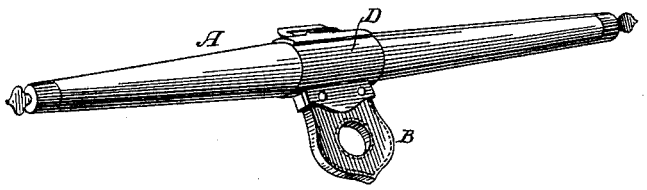
J. S. NELSON.
Neck-Yoke.

No. 219,870. **Patented Sept. 23, 1879.**

Fig. 1.



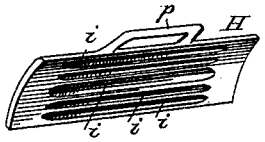
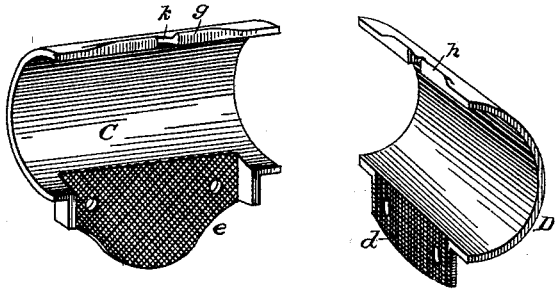
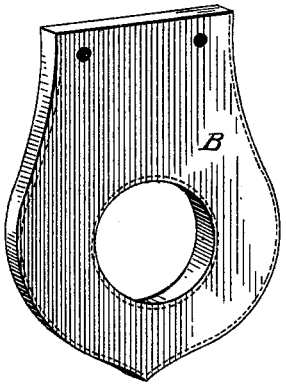


Fig. 2.





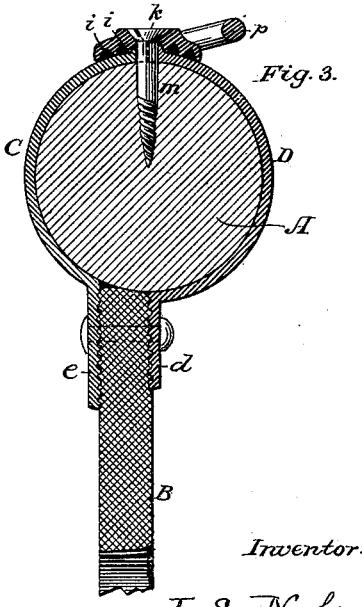
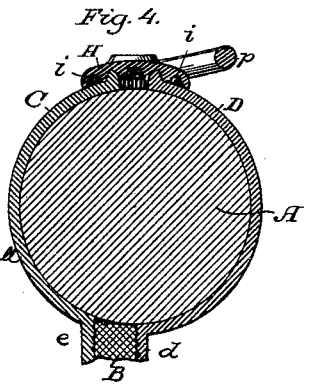


Fig. 3.

Fig. 4.



Attest:

C. Clarence Poole
L. Hammond Marshall

Inventor:

J. S. Nelson
By his atty
R. D. O. Smith

UNITED STATES PATENT OFFICE.

JAMES S. NELSON, OF SPRINGFIELD, OHIO, ASSIGNOR OF ONE-HALF HIS RIGHT TO WILLIAM C. PEEL AND JUSTUS V. ELSTER, OF SAME PLACE.

IMPROVEMENT IN NECK-YOKES.

Specification forming part of Letters Patent No. **219,870**, dated September 23, 1879; application filed July 18, 1879.

To all whom it may concern:

Be it known that I, JAMES S. NELSON, of Springfield, Clarke county, in the State of Ohio, have invented a new and useful Improvement in Neck-Yokes, and that the following is a full and exact description of the same.

The object of my invention is to produce a pole-loop connection with the neck-yoke, which shall be durable, cheap, easily changed from one yoke to another, and easily made to fit yokes of different diameters; and it consists in a metallic thimble or band, made in two or more parts, united at one side to a leather loop, which receives the end of the pole or tongue, and at the other side by an adjustable fastening, which unites the parts to each other and to the neck-yoke.

That others may fully understand my invention, I will particularly describe it, having reference to the accompanying drawings, wherein—

Figure 1 is a perspective view of my neck-yoke. Fig. 2 represents, in perspective, the several parts detached. Fig. 3 represents the same, in transverse section, assembled. Fig. 4 represents the mode of fitting to a yoke larger in diameter than common.

A is the neck-yoke, and B is the pole-loop. C and D are the two parts of the metallic thimble or band whereby the pole-loop is attached to the tongue.

The parts C D are segments of a cylinder, and they are provided at one edge with flanges *d e*, which together constitute a socket to receive the end of the pole-loop B. At their opposite edges they are provided with flanges *g h*, which are radial to the transverse curvature of the thimble, and therefore are parallel with each other when the parts C D are in position.

H is a tie-plate, provided with longitudinal parallel grooves *i i*, which, when said plate is in position, interlock with the flanges *g h* and hold the plates C D securely.

The plate H may be secured by a common wood-screw, *m*, inserted through the hole *k* provided for it, and into the wood of the yoke A.

If the yokes upon which it is desired to fit this thimble vary in diameter they are held with equal security by plate H, whether the flanges *g h* meet or not. This is shown in Fig. 4.

If it is thought to be desirable, additional screws or rivets may be employed to secure the plates C D to the neck-yoke.

A loop, *p*, may be placed upon one of the plates C D, or upon the coupling-plate H, but preferably upon the latter, for the attachment of a check-strap to prevent the loop B from being pulled off the pole in case of breakage of any part of the harness.

The loop B may be made in any proper way; but I prefer to make the same of several thicknesses of leather, in the ordinary way.

Having described my invention, what I claim as new is—

1. A pole-loop connection for a neck-yoke, composed of the separate plates C D, provided with flanges *g h*, respectively, combined with a coupling-plate, H, provided with longitudinal internal grooves *i i*, for the purpose set forth.

2. A pole-loop connection for a neck-yoke, composed of separate plates C D, provided with flanges *d h* and *e g*, respectively, combined with a pole-loop, B, secured in the socket formed by the flanges *d e*, and the coupling-plate H, provided with longitudinal grooves *i i* to engage with and hold the flanges *g h*, as set forth.

JAMES S. NELSON.

Witnesses:
W. A. SCOTT,
W. F. BEVITT.