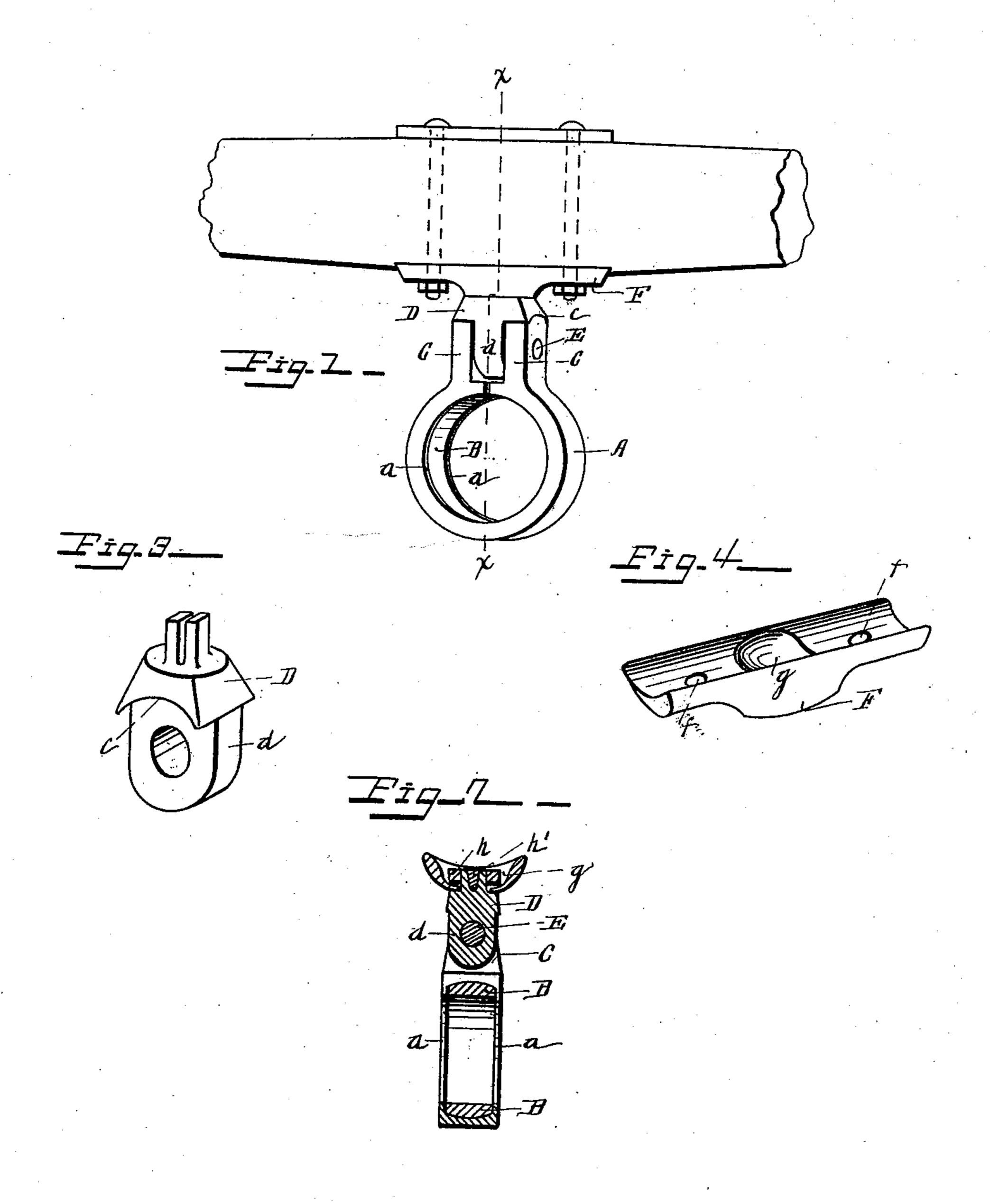
(No Model.)

E. M. VAN VALKENBURG. NECK YOKE CENTER.

No. 512,768.

Patented Jan. 16, 1894.



WITNESSES

Lundukuru Phillellasi. INVENTOR

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THE NATIONAL LITHOGRAPHING COMPANY, WASHINGTON, D. C.

United States Patent Office.

ELLIS M. VAN VALKENBURG, OF RACINE, WISCONSIN, ASSIGNOR TO THE BELLE CITY BOLSTER SPRING COMPANY, OF SAME PLACE.

NECK-YOKE CENTER.

SPECIFICATION forming part of Letters Patent No. 512,768, dated January 16, 1894.

Application filed June 2, 1893. Serial No. 476,373. (No model.)

To all whom it may concern:

Beit known that I, ELLIS M. VAN VALKEN-BURG, a citizen of the United States, and a resident of Racine, in the county of Racine and State of Wisconsin, have invented certain new and useful Improvements in Neck-Yoke Centers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a front view of the invention. Fig. 2 is a transverse section taken on line xx Fig. 1. Fig. 3 is a detail view in perspective of the swivel and Fig. 4 is a detail view of the attachment plate.

This invention has relation to certain new and useful improvements in neck yoke centers, the object being to provide a simple, effective, convenient and durable device of this character; and the invention consists in the novel construction and combination of parts, all as hereinafter described and pointed out in the appended claim.

Referring to the accompanying drawings, the letter A indicates a broad ring, prefer-30 ably of metal, and designed to receive the pole. Said ring is provided with a lining B of some elastic or yielding material, such as leather or rubber. To retain this lining in place, the inner face of the ring is made con-35 cave, with flanges a at each edge. The lining is forced into the concavity between the flanges, and is held securely against displacement. Projecting from the upper portion of said ring are two parallel lugs C, C, having a 40 space between them to receive the eye portion d of a swivel D, said lugs being perforated to receive a horizontal pivot bolt or pin E, which engages said lugs and the eye d.

F designates the attachment plate, which is of oblong form concaved on its upper face, and provided with perforations f, by means of which it may be secured by bolts or screws. At its central portion the said plate is formed with a circular concavity g, which receives

the circular head h of the swivel D. Said 50 head is shown as secured in place by means of a wedge h', driven into the upper end portion of the swivel into which said head h is fitted. This arrangement it will be seen affords a bearing for the said ring at each side, 55 above and concentric with the horizontal pivot pin. These bearings it will be seen also serve as stops to limit the movement of the ring on said pivot pin beyond certain points. Said swivel D is also provided with a broad 60 face which bears against the under face of the attachment plate. The upper end portions of the lugs C, C, are made convex, and afford bearings for concavities c, c, on the portion D' of the swivel. It will be observed 65 that the yoke ring is capable of a free rotary movement, by reason of the swivel, and also of a free forward and back movement upon the horizontal pin E.

Having thus described my invention, what 70 I claim as new, and desire to secure by Letters Patent, is—

In a neck-yoke holder, the combination with an integral ring formed with a pair of parallel lugs C, C at its upper portion, the upper 75 ends of said lugs being of arcuate convex form, and the attachment plate, of the swivel piece D forming the connection between said ring and plate, said swivel piece comprising an apertured tongue received and pivoted be- 80 tween the said lugs C, C, a portion D formed at the sides with arcuate concavities c, c, bearing on the convex ends of said lugs, said concavities and convexities having a curvature concentric with the bearing for the pivot 85 pin, a reduced upper portion extending loosely through said attachment plate, a circular bearing head h on the upper end of said reduced portion, and means for securing said head rigidly to said reduced portion, substan- 90 tially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ELLIS M. VAN VALKENBURG.

Witnesses:

C. R. CARPENTER, JOHN H. HAPP.