

H. JACOBS.  
Neck-Yoke.

No. 225,058.

Patented Mar. 2, 1880.

Fig. 1.

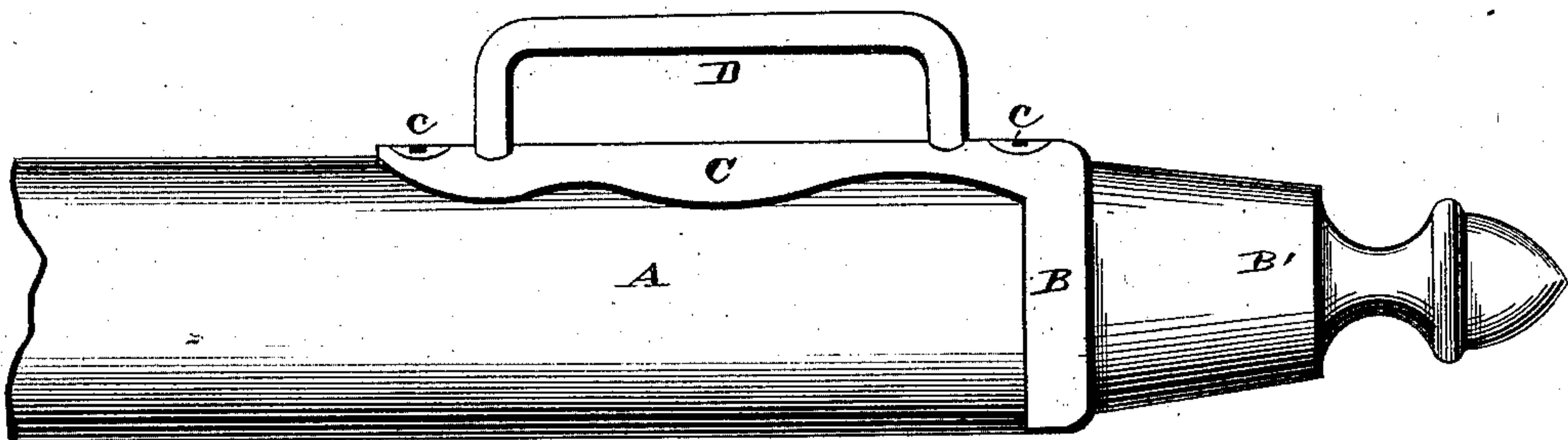
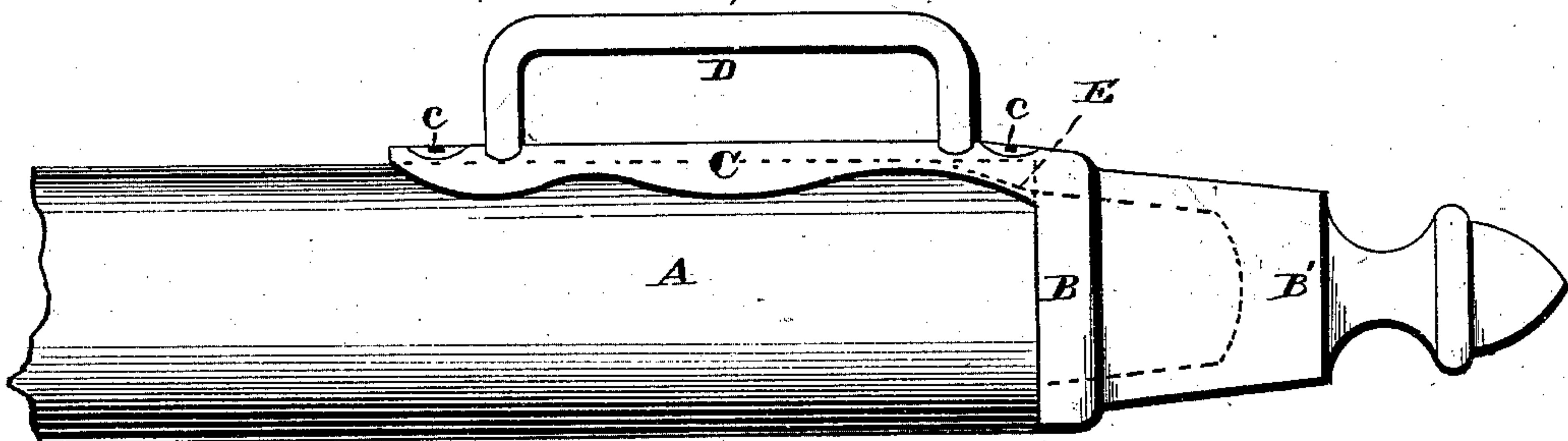


Fig. 2.

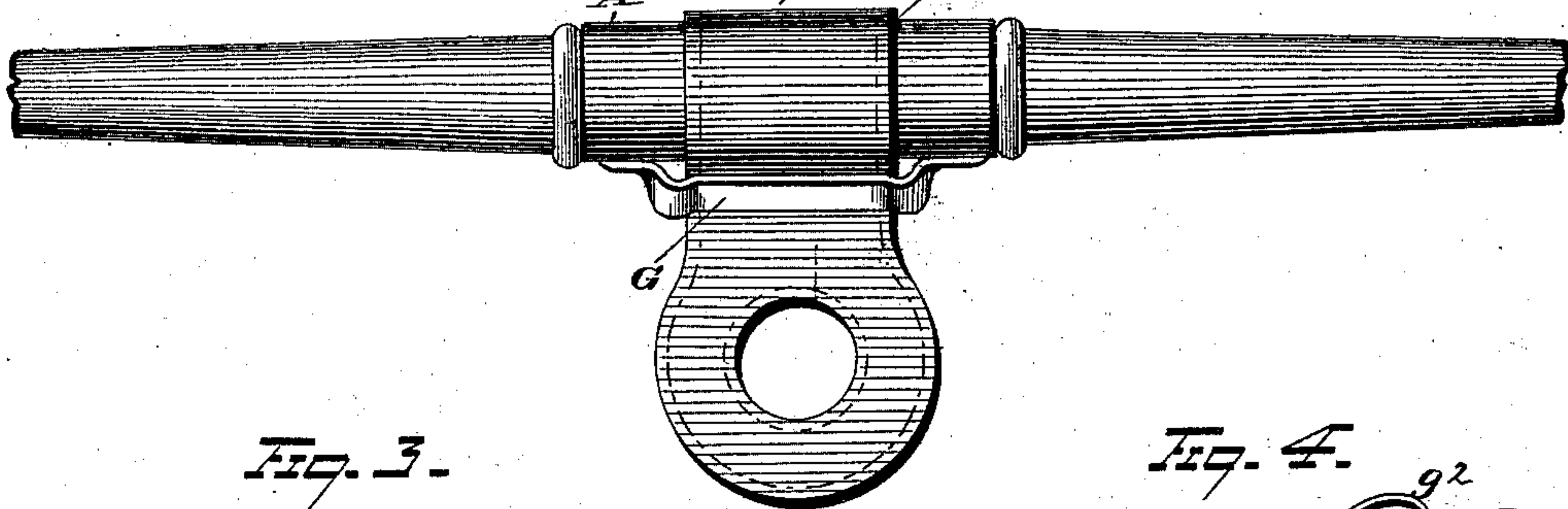


Fig. 3.

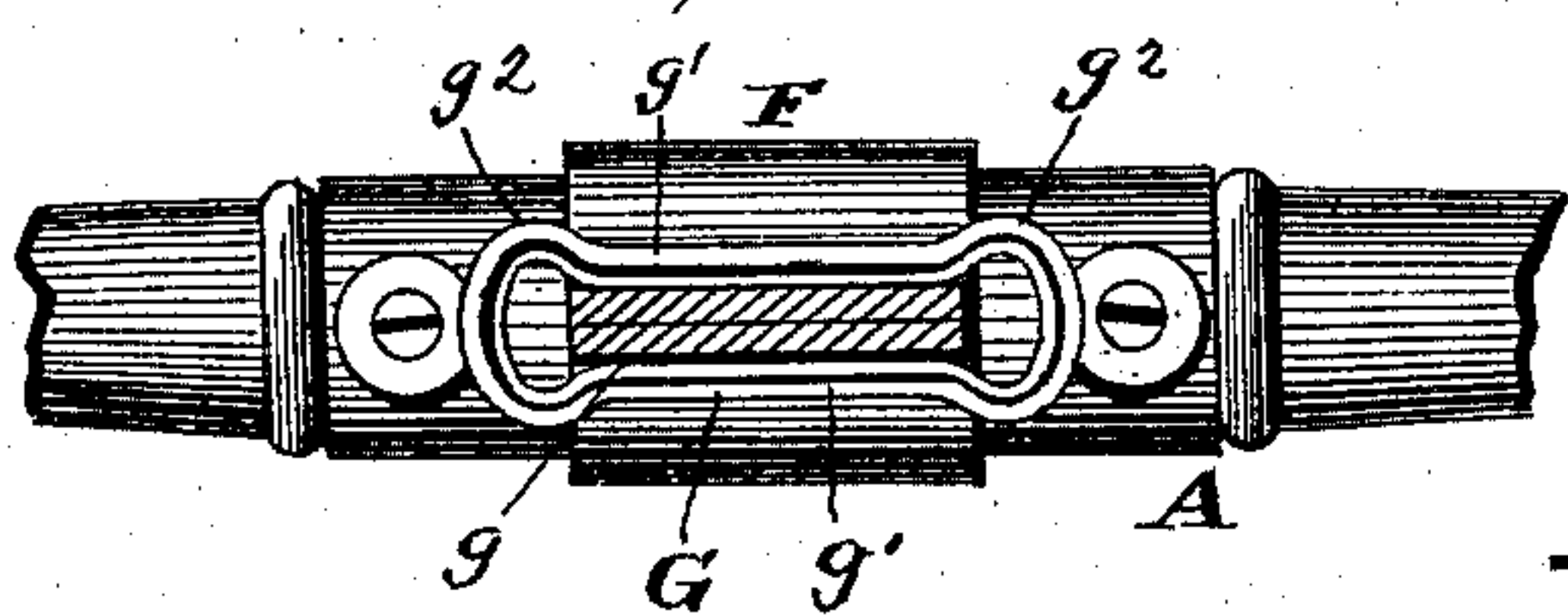


Fig. 4.

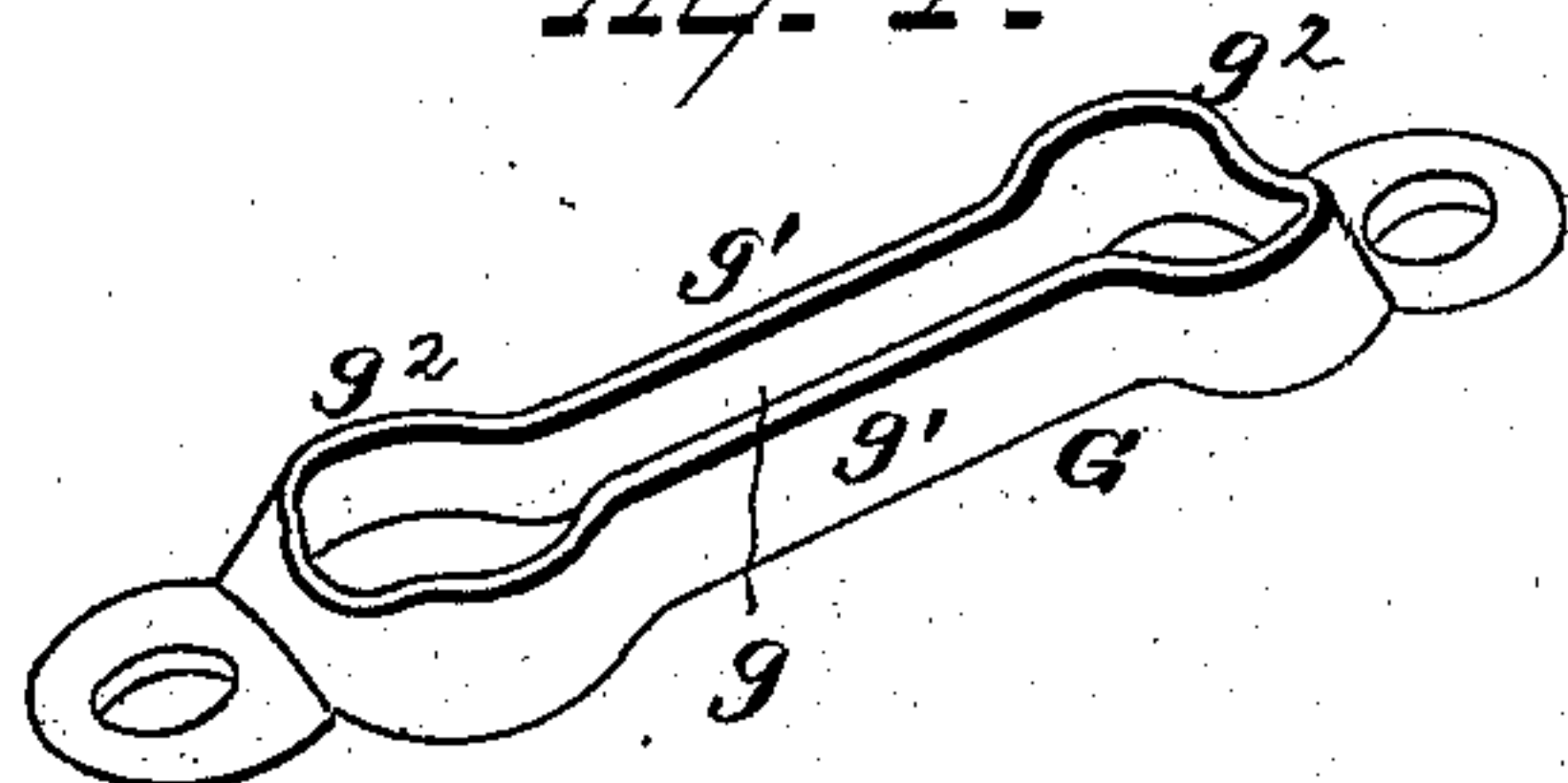
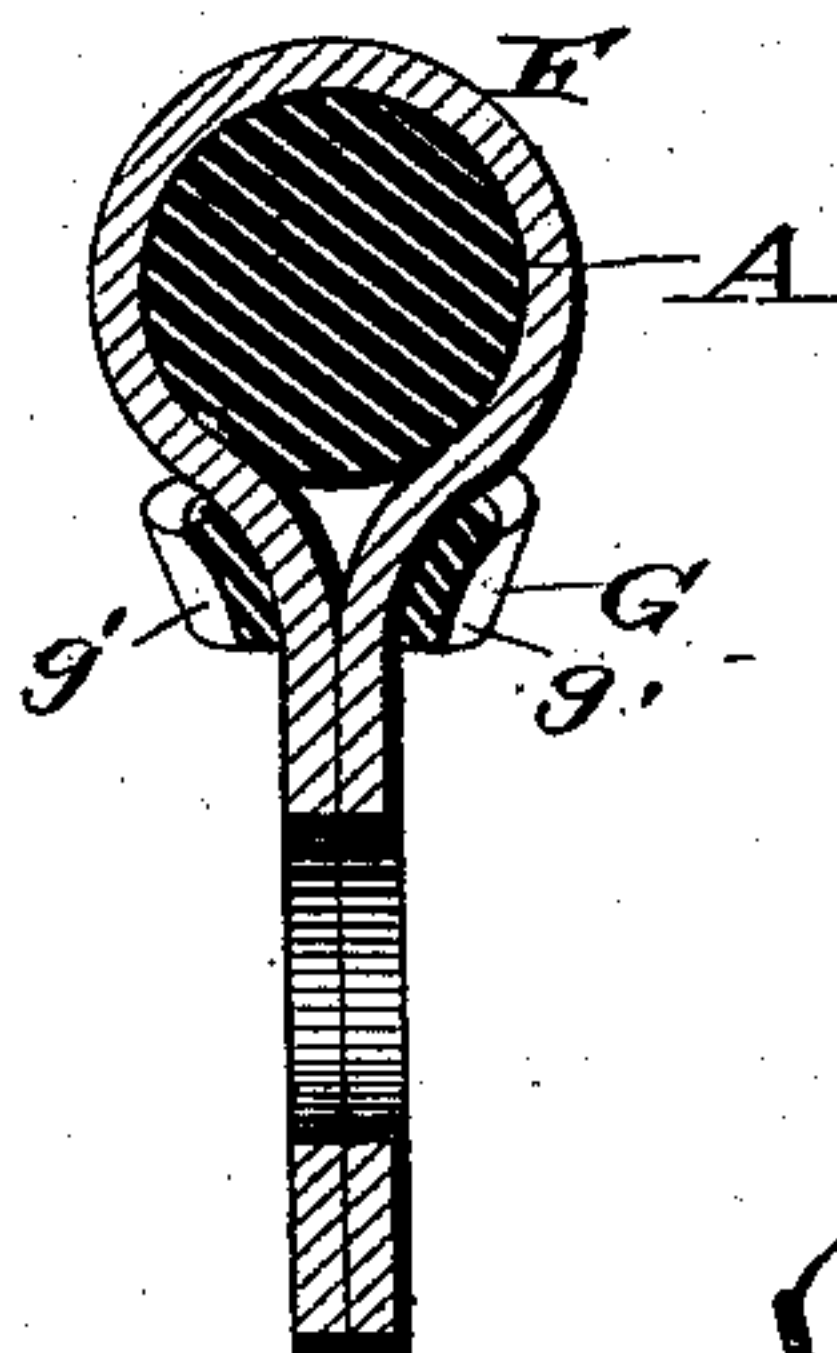


Fig. 5.



WITNESSES  
E. J. Nottingham  
A. M. Bright.

INVENTOR  
Henry Jacobs.  
By W. W. Duggett.  
ATTORNEY



# UNITED STATES PATENT OFFICE.

HENRY JACOBS, OF SANDUSKY, OHIO.

## NECK-YOKE.

SPECIFICATION forming part of Letters Patent No. 225,058, dated March 2, 1880.

Application filed September 20, 1879.

*To all whom it may concern:*

Be it known that I, HENRY JACOBS, of Sandusky, county of Erie, State of Ohio, have invented a new and useful Improvement in Neck-Yokes; and I declare the following to be such a full, clear, and exact description of the invention as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

My invention consists in a neck-yoke tip consisting of a ferrule or cap adapted to receive the end of the neck-yoke, said ferrule or cap having an elongated wearing-plate formed solid therewith, said plate being arc-shaped in transverse section and having a loop formed solid therewith.

My invention consists, also, in providing the pole loop or strap which supports the pole with a metallic embracing-piece or buckle, through which the ends of the strap pass, and which holds them snugly to the yoke, the sides of the said buckle being depressed so as to bear upon the faces of the strap, leaving the end portions of the buckle bulged outward, so as not to come in contact with the strap, thereby preventing the strap from being cut or torn at its edges when in use.

In the drawings, Figure 1 represents one of my improved neck-yoke tips. Fig. 2 represents my improved embracing-piece or buckle at the center of the neck-yoke for holding the pole-loop or supporting-strap. Fig. 3 represents a face view, looking against the said piece or buckle; Fig. 4, a separate view of the said buckle or embracing-piece. Fig. 5 is a cross-section through the neck-yoke, center-strap, and embracing-piece.

A is the neck-yoke. B is a ring or ferrule which embraces the end of the pole-yoke. To this ring or ferrule is rigidly cast or attached the wearing-piece C. D is the retaining-loop, its ends being firmly and permanently attached to the wearing-plate C. The part C is so connected with the ring or ferrule B that it will lie along the outer surface of the neck-yoke, instead of being countersunk into the surface of the yoke, as heretofore. Screws *c* serve to hold the plate C to the neck-yoke.

By thus forming the plate C so as to rest upon instead of within the surface of the neck-

yoke, considerable expense is saved in the manufacture, which, in an article of this nature, where the margins are exceedingly small, is a great desideratum. So, also, the feature of terminating the ends of the loop D in the plate C is important. Heretofore the ends of these loops have usually been passed through the neck-yoke and clinched upon the opposite side; but this frequently, where the wood is well seasoned, cracks the wood, which crack, extending back, impairs or destroys the neck-yoke. So, also, the clinching of the ends of the loop mars the surface, and requires filing and dressing in order to make a proper finish, and adds expense in the manufacture.

The part B may be in the nature of a plain ring, permitting the wood at the end of the neck-yoke to project through it and be finished with an acorn or in other suitable manner, as shown at B'; or the part B' may be made of metal solid with the ring B, and the end of the neck-yoke be finished with a suitable dowel adapted to enter a corresponding hole in the tip.

A rib or edge, E, may be formed upon the under side of the ring B, adjacent to the end of the neck-yoke, to enter a corresponding notch in the wood, so as to prevent any tendency of the wood to turn within the ring.

F is a strap having the loop which supports the pole. G is the embracing-piece or buckle, having a central orifice, *g*, for the passage of the ends of the strap F. This buckle has two parallel bars, which bars are depressed along their central portions, *g'*, where they bear upon the opposite faces of the strap, but their ends *g''* are permitted to bulge outward, so as not to bear upon the edges of the strap. Heretofore, when buckles of this character have been used, those parts have been made to bear upon the strap across its whole breadth, and consequently, when the strap was twisted, as is frequently the case in use, (in fact, unavoidable,) the edge of the strap would be brought against the edge of the metal, thus soon cutting the strap, impairing its strength, and soon destroying it altogether.

The portions *g'* are inclined outward from the neck-yoke, so as to conform more nearly with the natural surface of the strap at this point, and also permit the strap, as it becomes



stretched, to draw through the buckle, while the buckle will prevent its drawing back and thus becoming loose upon the neck-yoke.

What I claim is—

5 1. A neck-yoke tip consisting of a ring or cap, B, adapted to encircle the end of a neck-yoke, and having a wearing-plate, C, formed solid therewith, said wearing-plate not encircling the neck-yoke, but fitting against the side thereof, and having a loop, D, formed solid  
10 therewith, substantially as set forth.

2. The combination, with a neck-yoke, of a ring or cap, B, adapted to encircle the end of a neck-yoke, and having a wearing-plate, C,  
15 formed solid therewith, said wearing-plate not encircling the neck-yoke, but fitting against the side thereof and having a loop, D, formed solid therewith, and rivets or screws *c*, for securing the wearing-plate to the neck-yoke, sub-  
20 stantially as set forth.

3. The combination, with a neck-yoke, of a ring or cap, B, adapted to encircle the end of the neck-yoke, and having a wearing-plate, C, formed solid therewith, said wearing-plate not  
25 encircling the neck-yoke, but fitting against the side thereof and having a loop, D, formed solid therewith, and a rib, E, adapted to enter

a corresponding notch in the neck-yoke, substantially as set forth.

4. The combination, with a neck-yoke, of a 30 center strap, F, and an embracing-piece or buckle, G, having a central passage for the ends of the strap, the said buckle being provided with depressions *g'* and bulged portions *g''*, whereby a firm bearing is had upon the strap 35 beneath its edges and its edges left free, substantially as and for the purposes described.

5. As an article of manufacture, the piece G, provided with the parallel bars *g'*, depressed along their middle portions and bulged out- 40 wardly at *g''*, substantially as and for the purposes described.

6. As a new article of manufacture, a piece, G, having the depressed portions *g'* and bulged portions *g''*, the said portions *g'* inclined out- 45 ward from their outer to their inner edges, substantially as and for the purposes described.

Witness my hand at Sandusky, Ohio, this 9th day of September, 1879.

HENRY JACOBS.

Witnesses:

W. E. CHAPMAN,

W. P. SPENCER.