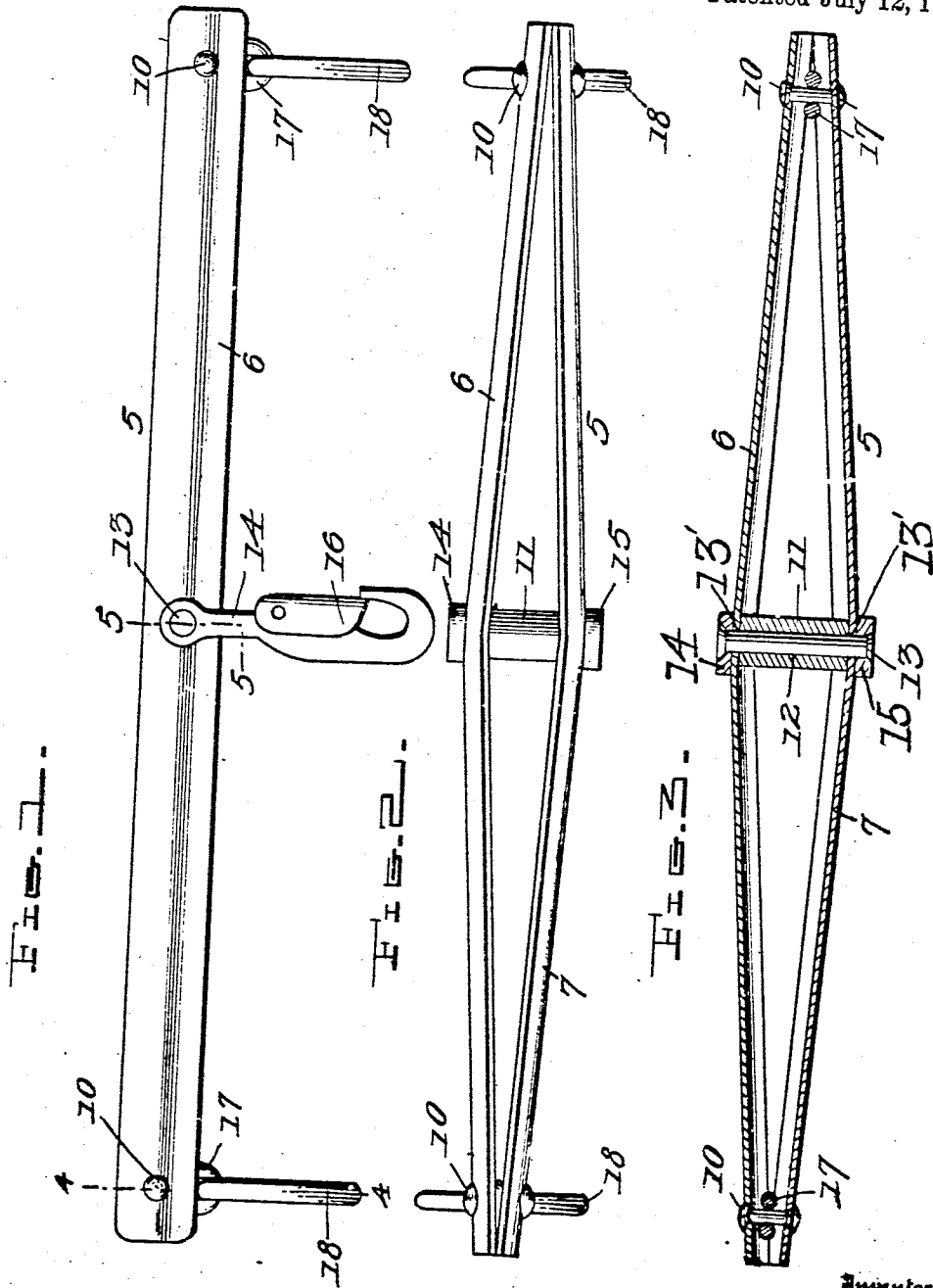


D. F. TANNER.
 NECK YOKE.
 APPLICATION FILED FEB. 27, 1908.

964,134.

Patented July 12, 1910.



Witnesses

E. L. Chandler

D. F. Tanner
 Inventor

Woodward & Chandler
 334
 Attorneys

UNITED STATES PATENT OFFICE

DANA F. TANNER, OF HOLLAND, NEW YORK.

NECK-YOKE.

964,134.

Specification of Letters Patent. Patented July 12, 1910.

Application filed February 27, 1908. Serial No. 418,120.

To all whom it may concern:

Be it known that I, DANA F. TANNER, a citizen of the United States, residing at Holland, in the county of Erie and State of New York, have invented certain new and useful Improvements in Neck-Yokes, of which the following is a specification.

This invention relates to neck-yokes, and has for its object to provide a metallic neck-yoke which will be simple in structure and arrangement, and which may be manufactured at a low figure, yet which will be efficient and durable.

Another and principal object of the invention is to provide a structure including links for the attachment of end rings, arranged in such a way that they will be held in proper position by reason of the peculiar arrangement of the parts of the neck-yoke.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is a top plan of the neck-yoke, Fig. 2 is a rear elevation, Fig. 3 is a longitudinal section looking toward the front.

Referring now to the drawings, there is shown a neck-yoke which includes a central vertically disposed sleeve 11, through which there is engaged a central rivet 13. The rivet 13 extends beyond the ends of the sleeve and has engaged upon its upper and lower ends, a pair of longitudinally extending metallic members 6 and 7 respectively. These metallic members are bent toward each other at opposite sides of the sleeve 11, to bring their ends into mutual engagement and, as shown, the metallic members are also curved transversely, so that their edges are presented toward each other, as illustrated. Engaged between these edges at the rearward side of the yoke and one at each end thereof, there are a pair of end links 17, and engaged through the ends of the members 6 and 7 and through the links, there are end rivets 10, which are headed over at their extremities to hold the ends of the metallic members against separation and to firmly clamp the links 17 between the rearward edges of the two members 6 and 7.

As illustrated, the metallic members 6 and 7 have openings 13' at their centers through which the ends of the central rivet 13 are

engaged, and engaged over the ends of the rivets outwardly of the metallic members, 55 are the legs 14 and 15 of a clip yoke 16 adapted for engagement with the terminal ring of a wagon pole, as will be understood. As shown, the end link 17 receives rings 18 for connection with the collars of the horses 60 in the usual manner.

As will be seen, the peculiar structure set forth is such that a truss effect is obtained, and also an arrangement is produced in which the links 17 are firmly clamped in position. 65

As illustrated, the edge portions of the members 6 and 7 are curved downwardly and upwardly respectively over the ends of the central sleeve 11, and that the heading 70 over the ends of the rivet 13 thus produces a positive and efficient binding of the parts preventing loosening of the connection.

What is claimed is:

As an article of manufacture, a neck yoke 75 comprising in combination, a pair of similarly formed elongated metallic plates curved transversely and disposed with their concave surfaces toward each other, a spacing sleeve engaged between the members at their 80 centers, said members having openings therein registering with the opening of the sleeve, a rivet engaged through the members and through the sleeve, an attaching clip engaged with the outer ends of the rivets, said 85 metallic members at opposite sides of the sleeves being bent toward each other to bring their side edge portions at their extremities into mutual engagement, links engaged between the rearward edge portions of the metallic members, rivets engaged through the 90 end portions of the metallic members and headed over to clamp the edge portions of the members against the links and hold the links against movement, said rivets being 95 engaged through the links to hold the said links against longitudinal withdrawal from between the metallic members, and rings engaged in the links.

In testimony whereof I affix my signature 100 in presence of two witnesses.

DANA F. TANNER.

Witnesses:

ALBERT F. BANGLET,
WM. W. BUCKNAM.