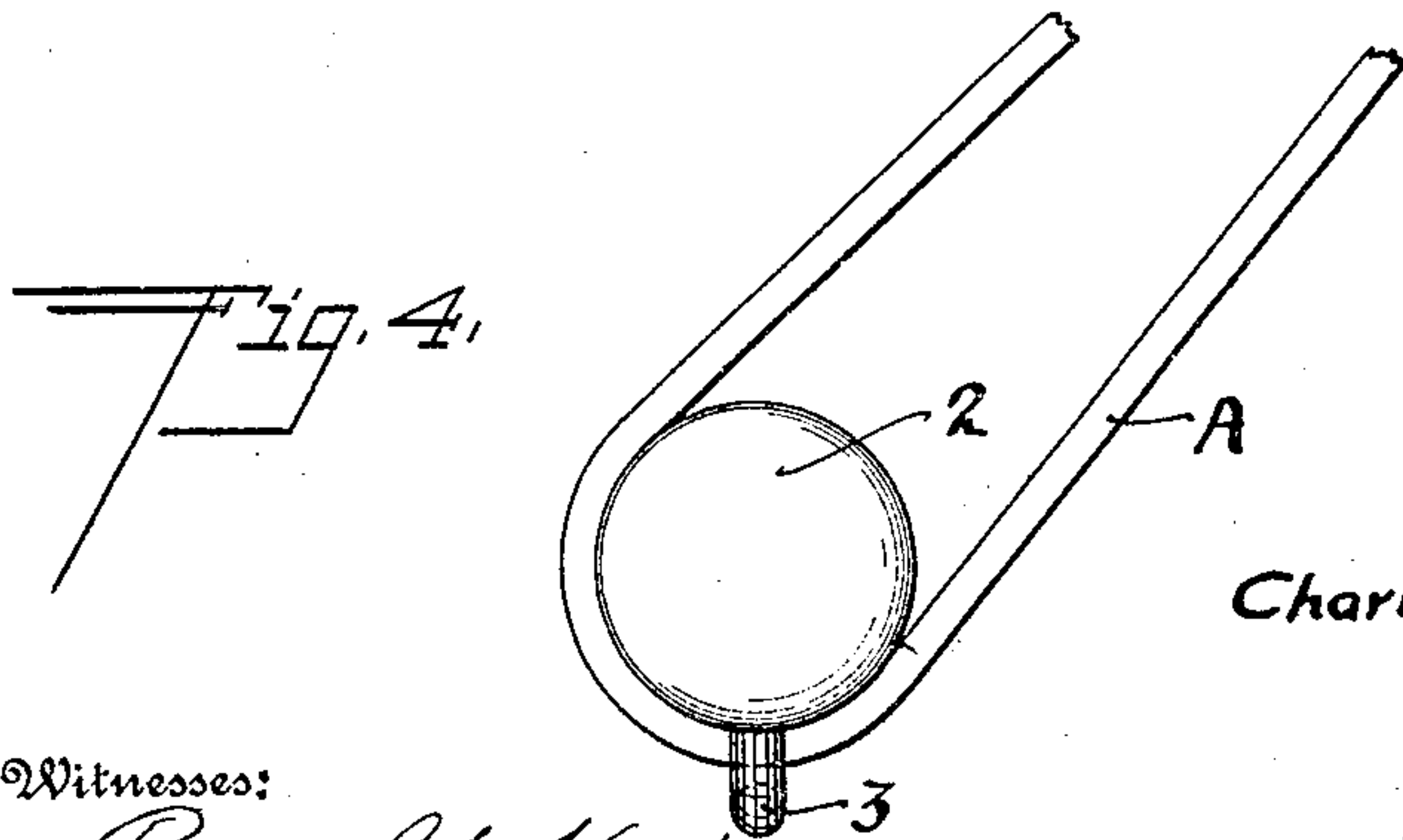
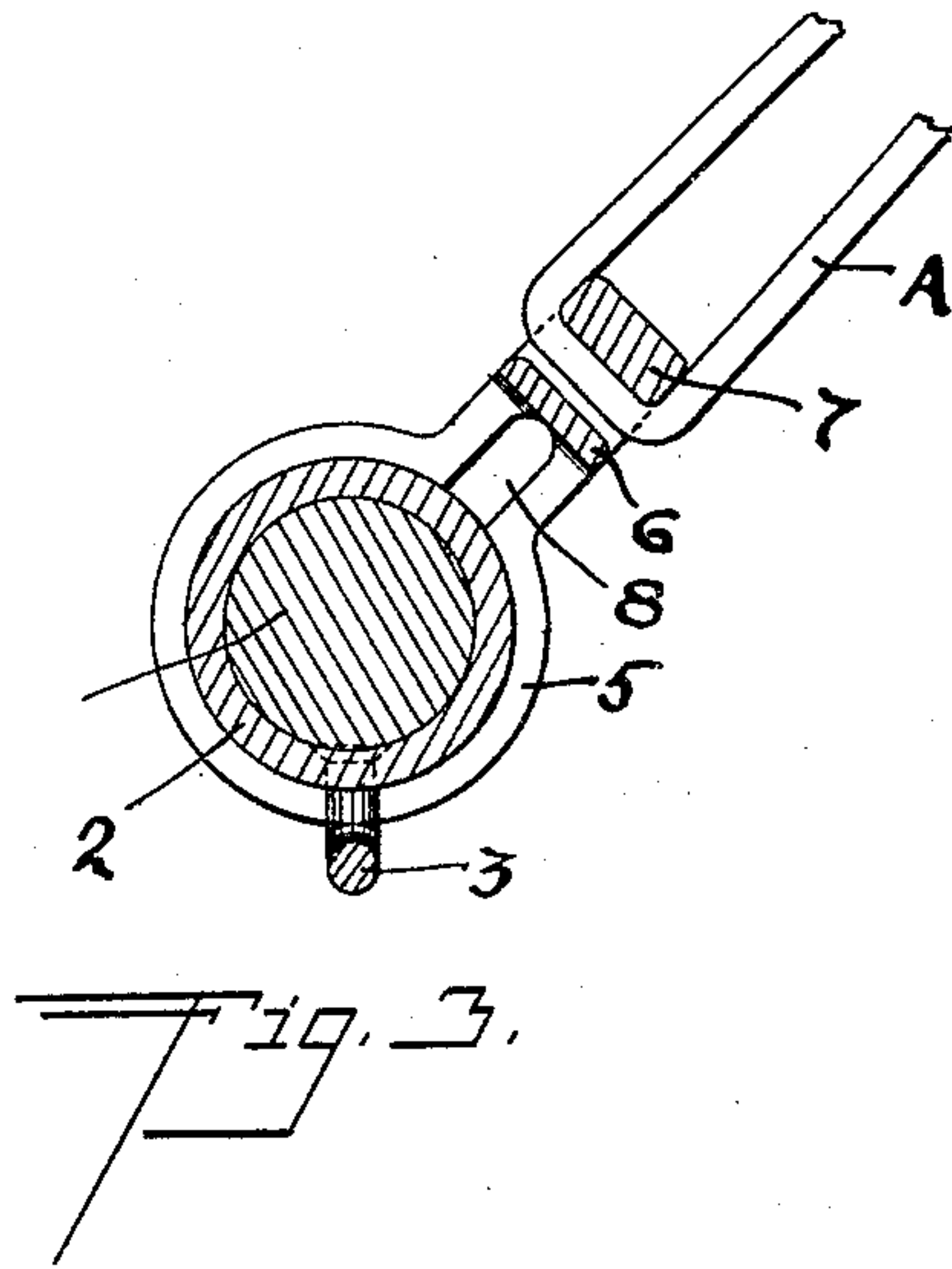
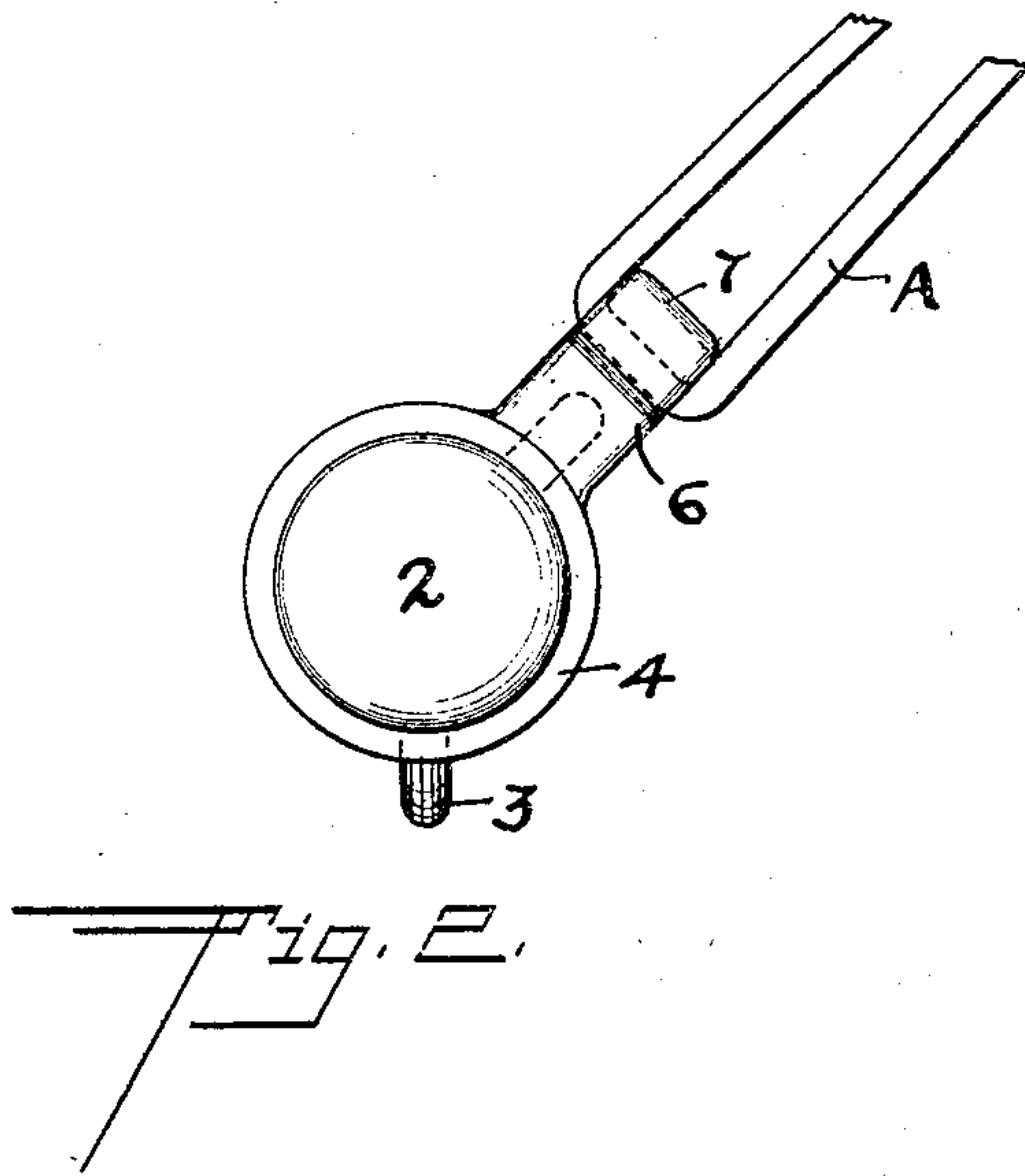
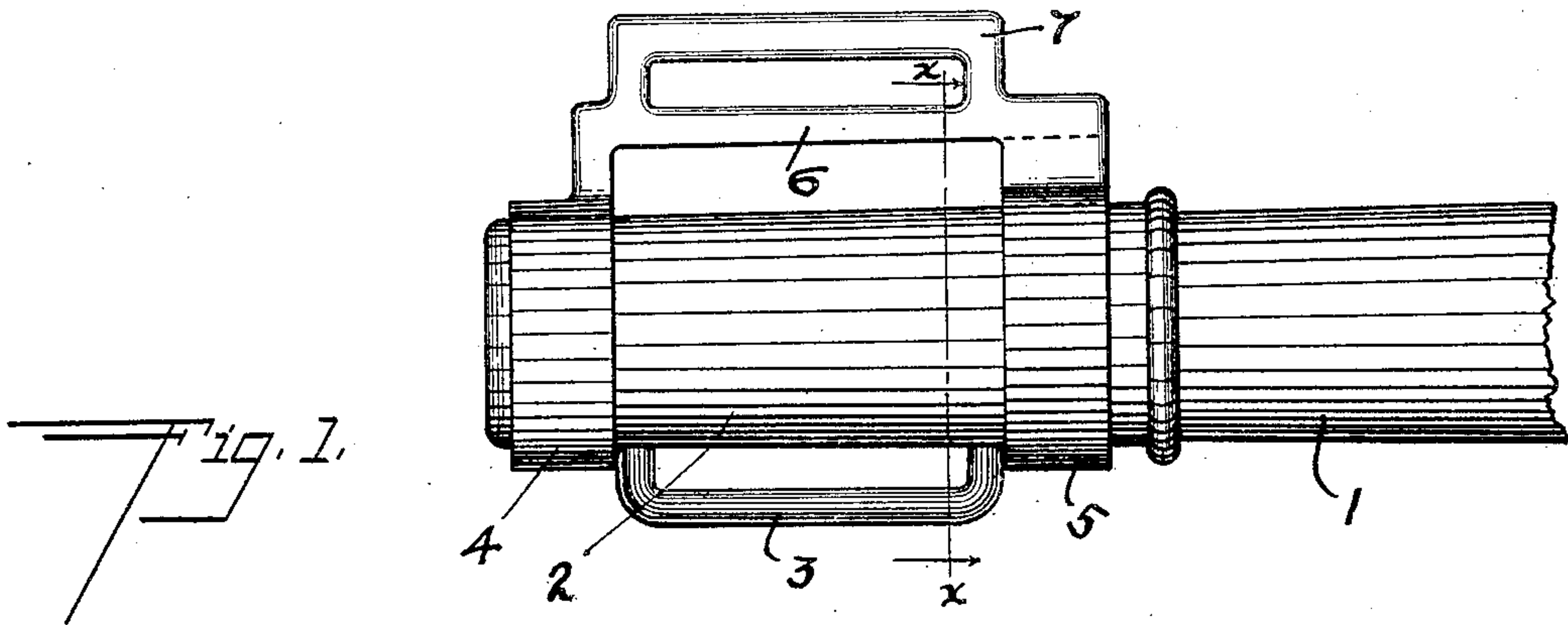


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NECK YOKE AND POLE STRAP CONNECTION.  
APPLICATION FILED MAR. 30, 1909.

933,001.

Patented Aug. 31, 1909.



Charles B. Schleicher, Inventor.

Witnesses:

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Attorney



# UNITED STATES PATENT OFFICE.

CHARLES B. SCHLEICHER, OF BRADY, NEBRASKA.

## NECK-YOKE AND POLE-STRAP CONNECTION.

933,001.

Specification of Letters Patent.

Patented Aug. 31, 1909.

Application filed March 30, 1909. Serial No. 486,810.

*To all whom it may concern:*

Be it known that I, CHARLES B. SCHLEICHER, a citizen of the United States, residing at Brady, in the county of Lincoln and State of Nebraska, have invented certain new and useful Improvements in Neck-Yoke and Pole-Strap Connections, of which the following is a specification.

My invention relates to neck-yokes for carriages and wagons, and more particularly to devices for connecting the ends of neck-yokes with the pole-straps of the harness.

It is the object of my invention to provide a simple and convenient connecting device for this purpose, which will not be liable to be accidentally disconnected, and which may be used interchangeably with the ordinary pole-strap connection consisting of a simple stirrup at the end of the yoke, through which the pole-strap may be passed.

Devices embodying my invention are illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of one end of the neck-yoke having my connecting device thereon, Fig. 2 is an end elevation of the same, Fig. 3 is a transverse section on the line  $x-x$  of Fig. 1, and Fig. 4 is an end elevation of the yoke with the pole-strap connected directly therewith.

In carrying out my invention the yoke 1 is provided at each end with a ferrule or thimble 2, at the lower side of which is a stirrup-piece 3 having an opening therein through which the pole-strap A may be passed as shown in Fig. 4. The connector body comprises the rings 4 and 5 which are of such a diameter as to pass over the thimble 2, the said rings being connected and held in axial alinement with each other by a bar 6. The bar 6 is formed integrally with the rings, and on the outer side thereof is a stirrup 7 which forms a loop for connection with the pole-strap A. The length of the connecting bar 6 is such that when the rings 4 and 5 are on the thimble 2 the thimble-stirrup may be inclosed between them, as shown in Fig. 1, and the bar is at such a distance from the bore of the rings that the connector body may be rotated upon the thimble and the stirrup 3 pass under the bar. In the bore of the ring 5 is a longitudinal groove 8 of a size such as to permit the ring to be passed over the thimble-stirrup 3 when the position thereof is coincident with the groove.

Thus the connector body may be readily engaged with and disengaged from the yoke by rotating the body to a position such that the stirrup and groove will coincide, and then moving the connector body longitudinally onto or off of the thimble.

From Figs. 2 and 3 it will be apparent that when the connector body is in its normal position, with the pole-strap A attached thereto and in the position assumed when in use, there is no possibility of the connector body being accidentally disengaged from the yoke, since the groove 8 does not coincide with the stirrup 3.

By having the stirrup 3 on the thimble instead of a solid projecting body for engagement with the connector body, the latter may be left attached to the pole-straps of the harness ordinarily used with the yoke, and in the event that it should be desired to use the yoke with other harness, the pole-straps may be connected with the yoke in the ordinary way, passing the straps through the stirrup, as shown in Fig. 4.

Now, having described my invention, what I claim and desire to secure by Letters Patent is:

1. The combination with a neck-yoke and a thimble secured on the end thereof, of a stirrup carried by the thimble, a connector body comprising two rings axially alined and spaced apart by a connecting bar, one of the rings having a longitudinal groove in the bore thereof to permit the same to pass over the thimble and stirrup thereon, and a stirrup arranged on the connector body and adapted for engagement with a pole-strap.

2. The combination with a neck-yoke and a thimble secured on the end thereof, of a longitudinal projecting member arranged at one side of the thimble, a connector body comprising a pair of rings adapted to pass over the thimble, and a bar connecting the rings to hold the same in axial alinement and space the same apart a distance equal to the length of the projecting member on the thimble, one of the rings having a longitudinal groove in the bore thereof to permit the same to be passed over the projecting member on the thimble.

3. The combination with a neck-yoke and a thimble secured on the end thereof, of a stirrup arranged at one side of the thimble and adapted for engagement with a pole-strap, and an integral connector body com-

prising a stirrup adapted for engagement  
with a pole-strap, a connecting bar adjoin-  
ing the stirrup, and a ring carried at each  
end of the said bar, the rings being axially  
5 alined and adapted to fit over the thimble,  
one of the rings having a groove in the bore  
thereof adapting the same to pass over the  
thimble-stirrup, and the connecting bar be-  
ing so disposed relatively to the bore of the  
10 rings that the connector body may be rotated

on the thimble and the bar pass over the  
thimble-stirrup.

In testimony whereof I have hereunto  
subscribed my name in the presence of two  
witnesses.

CHARLES B. SCHLEICHER.

Witnesses:

D. O. BARNELL,  
ROY G. KRATZ.