

No. 715,148.

Patented Dec. 2, 1902.

G. L. REENSTIERNA.  
COMBINED LACING STUD AND EYELET.

(Application filed Mar. 6, 1902.)

(No Model.)

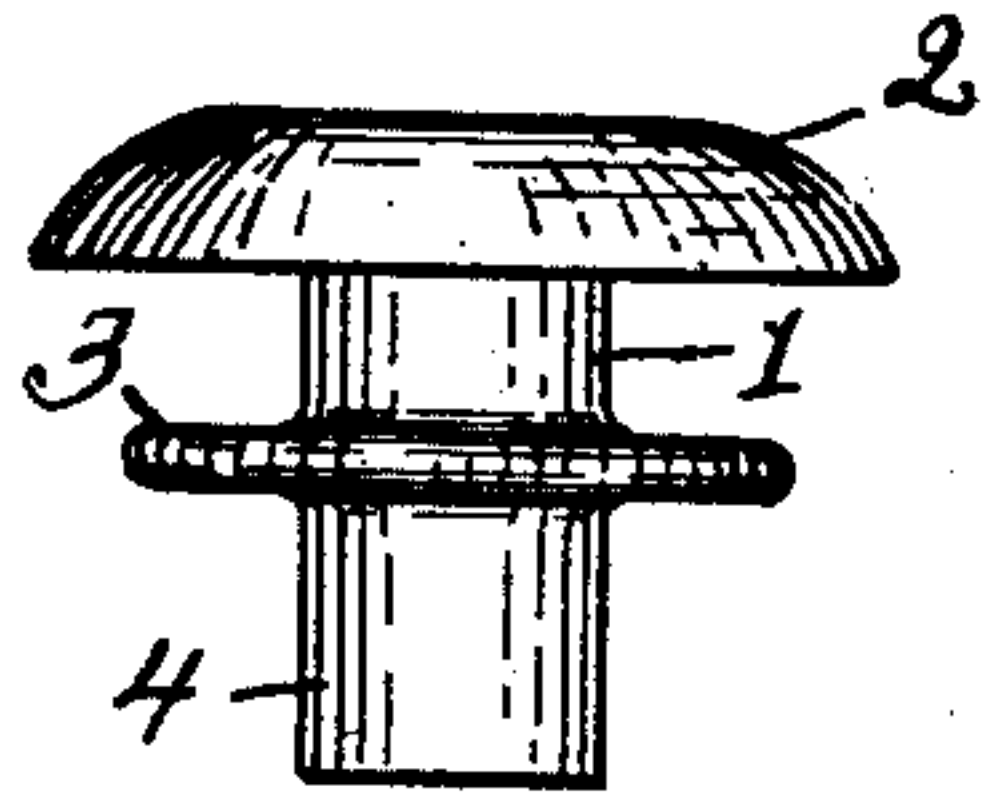


Fig. 1.

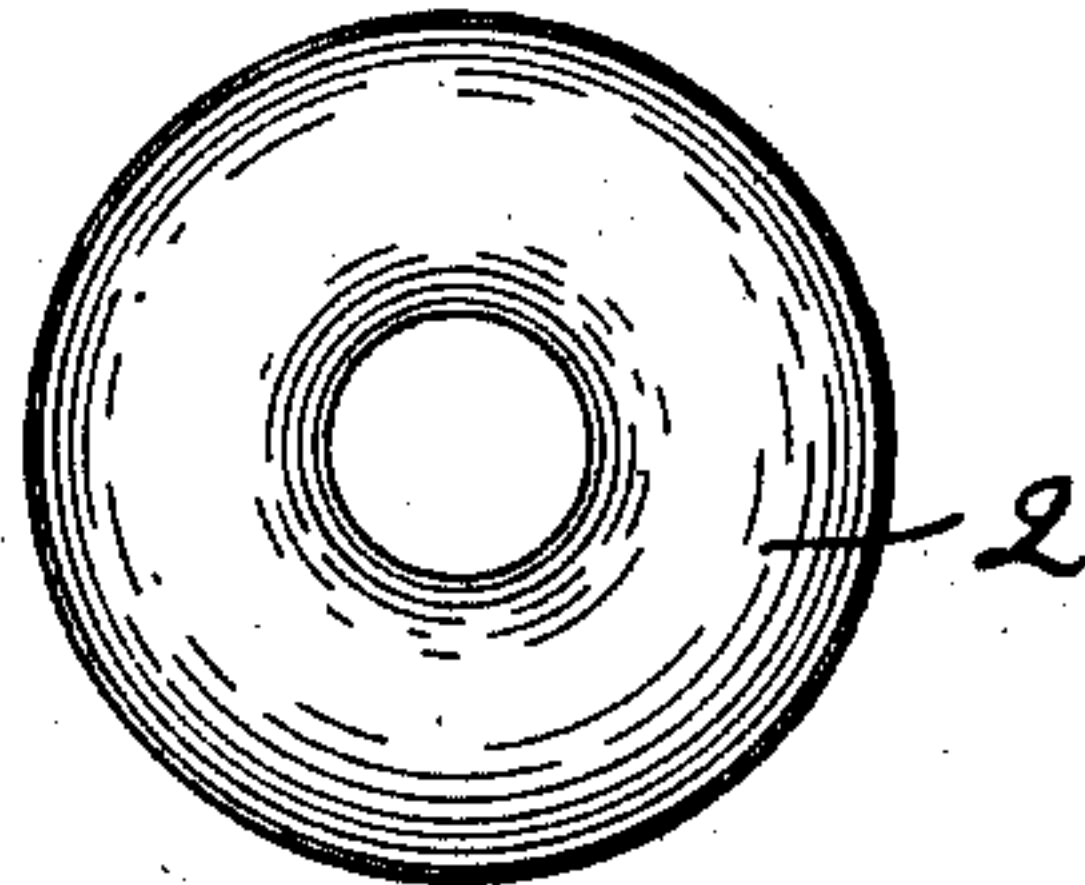


Fig. 2.

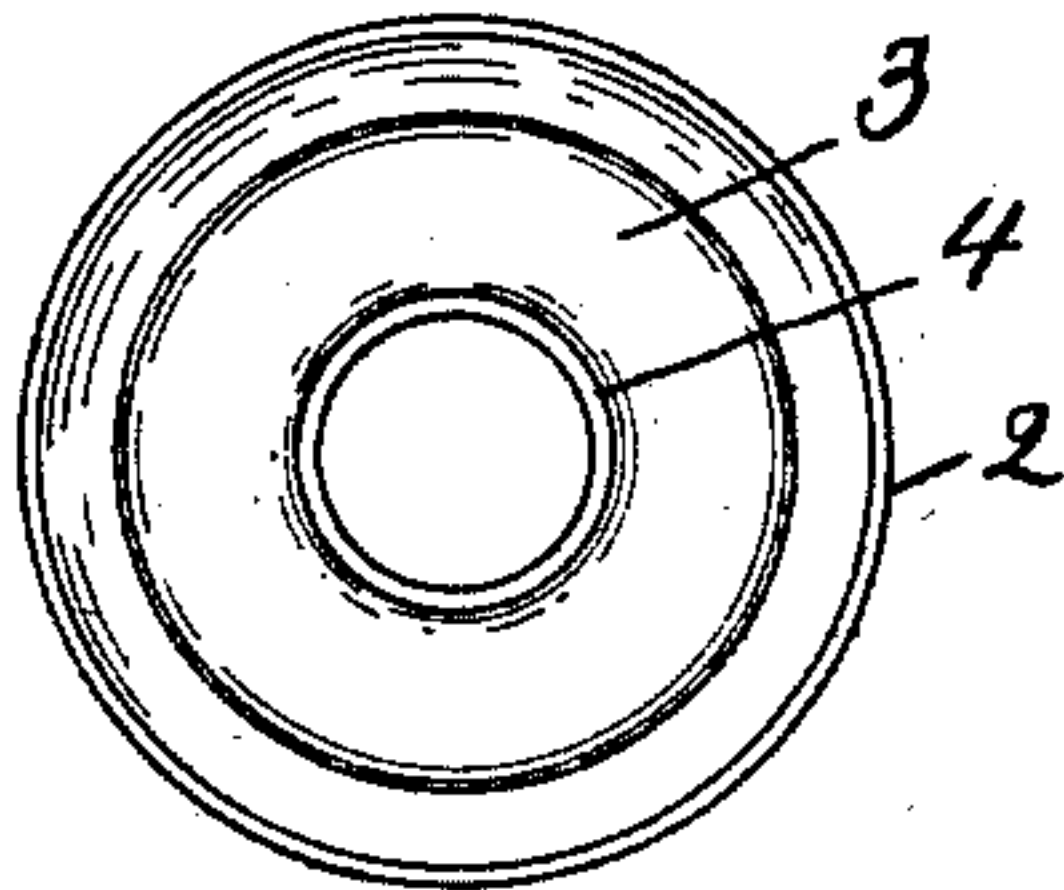


Fig. 3.

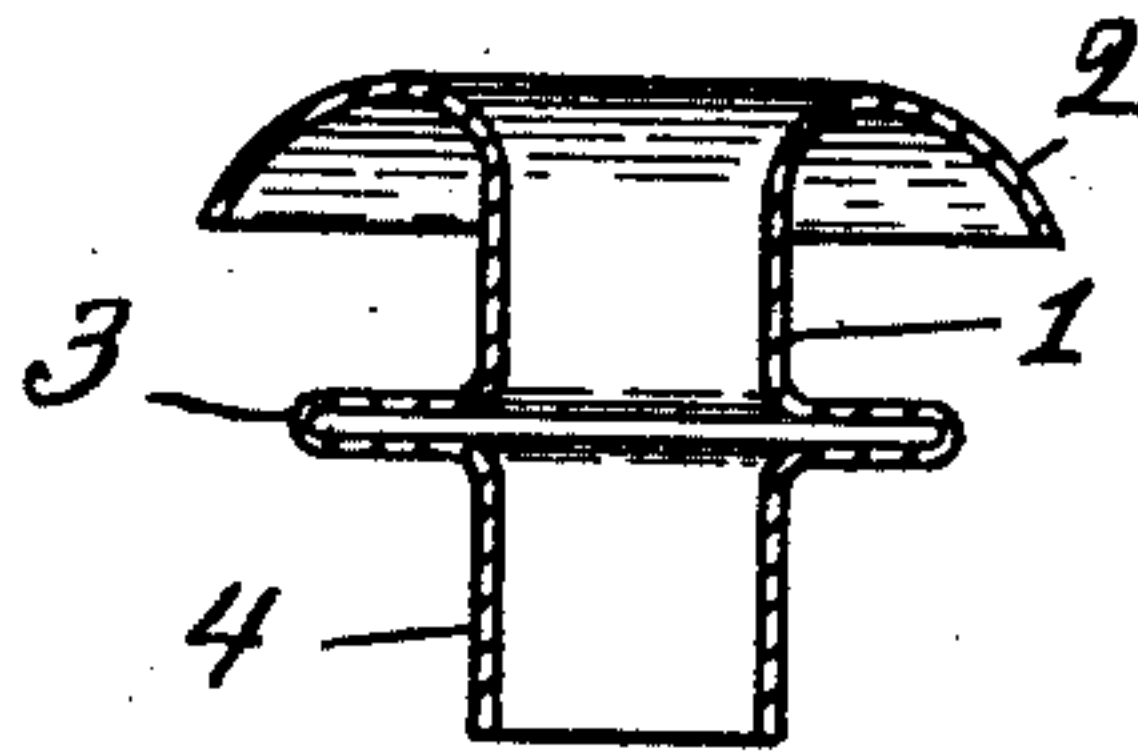


Fig. 4.

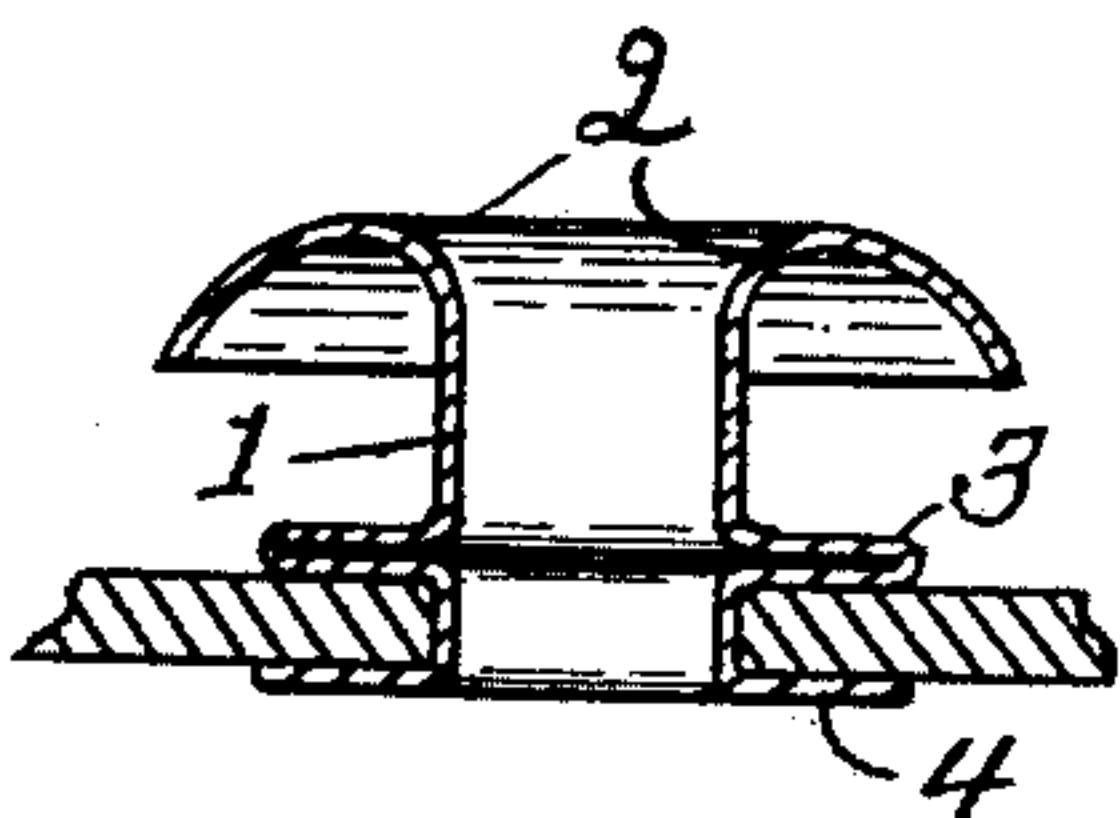


Fig. 5.

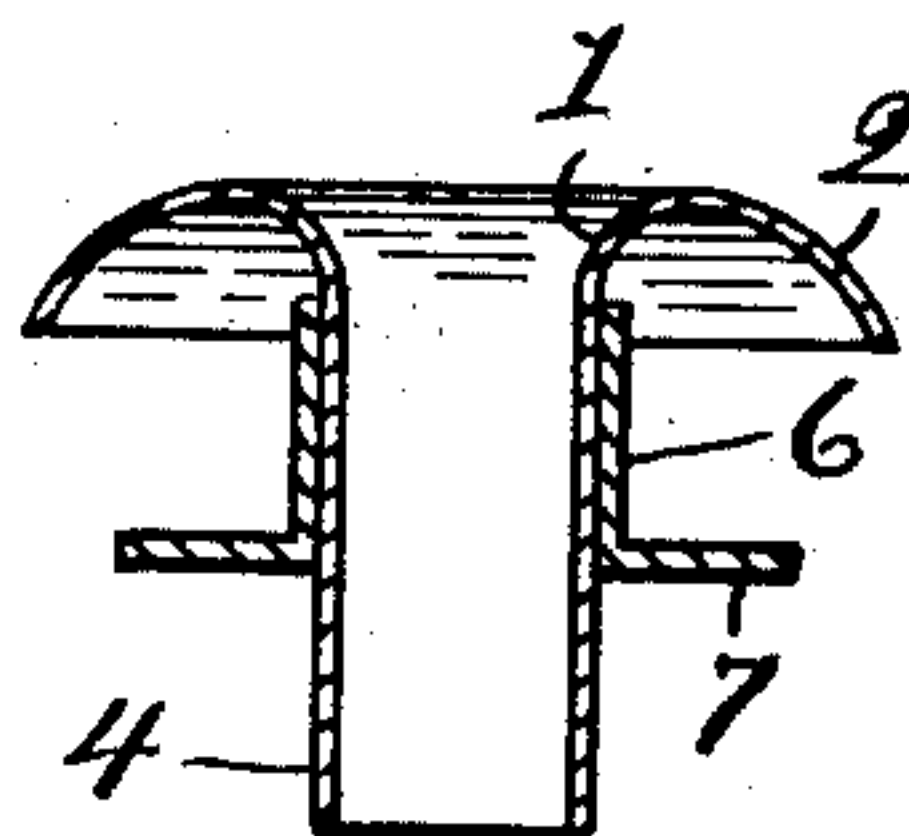


Fig. 6.

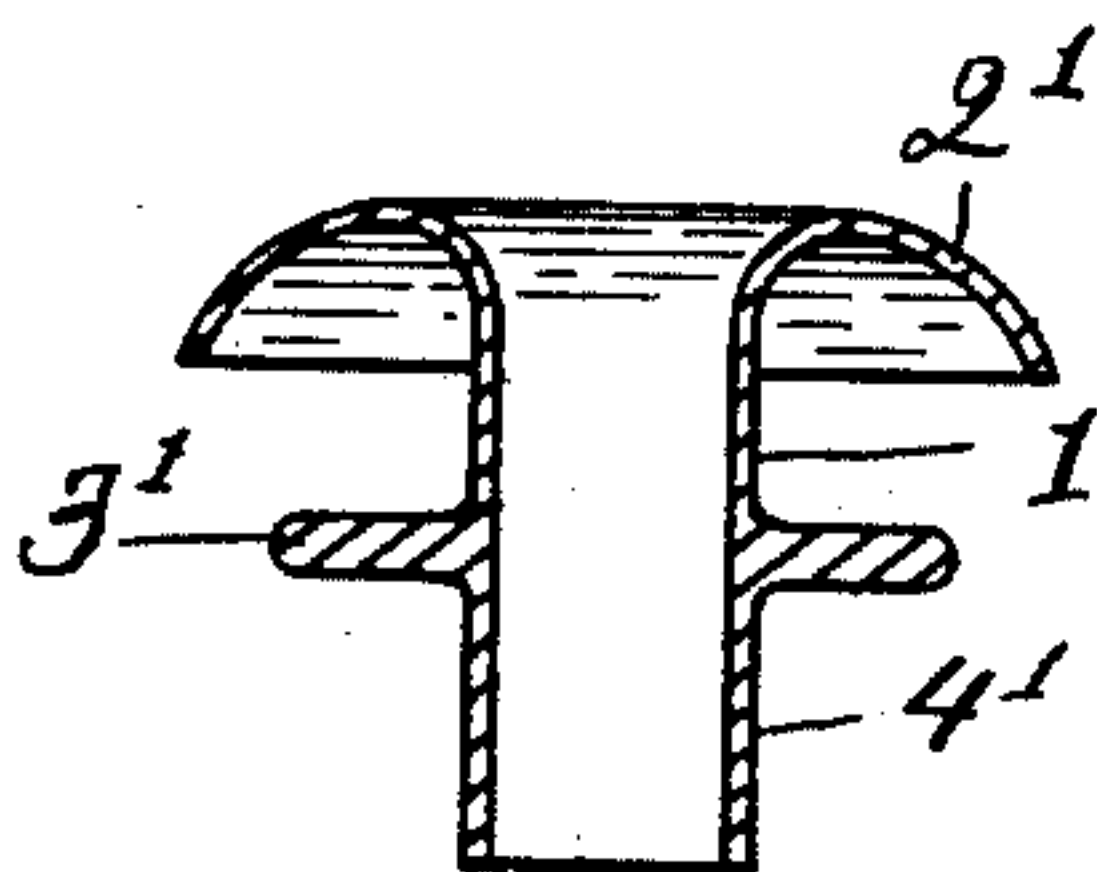


Fig. 7.

Witnesses,  
H. B. Davis.  
E. S. Nickerson.

Inventor:  
Gustaf L. Reenstierna.  
by *Raymond H. H. H. H.*  
Att'y.



# UNITED STATES PATENT OFFICE.

GUSTAF L. REENSTIERNA, OF WINCHESTER, MASSACHUSETTS, ASSIGNOR,  
BY DIRECT AND MESNE ASSIGNMENTS, TO JOHN A. BLAKE, OF MALDEN,  
MASSACHUSETTS, AND WILLIAM B. LEWIS, OF BOSTON, MASSACHUSETTS.

## COMBINED LACING-STUD AND EYELET.

SPECIFICATION forming part of Letters Patent No. 715,148, dated December 2, 1902.

Application filed March 6, 1902. Serial No. 96,883. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAF L. REENSTIERNA, of Winchester, county of Middlesex, State of Massachusetts, have invented an Improvement in a Combined Lacing-Stud and Eyelet, of which the following description, in connection with the accompanying drawings, is a specification, like numerals on the drawings representing like parts.

10 This invention relates to a combined lacing-stud and eyelet for boots and shoes and other purposes.

Prior to my invention it has been customary to place eyelets at the lower end of the lacing-flap and hooks or studs at the upper end thereof.

My invention has for its object the production of a stud and eyelet combined, which may serve either as an eyelet or lacing-stud, which is of such form that there are no sharp corners or projections thereon to catch in or wear the clothing and which may be used to set the studs along the entire length of the lacing-flap. I accomplish this object by providing a tubular piece of metal with a mushroom-shaped head, and an intermediate circumferential flange, whereby the leather of the lacing-opening may be clamped between said flange and the tubular portion therebelow and the portion above said flange may be used as a hook or stud and the tube be used as an eyelet.

For a more complete understanding of my invention reference is made to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a side elevation of my lacing-stud and eyelet before it is secured to the shoe. Figs. 2 and 3 are top and bottom plan views, respectively. Figs. 4 and 5 are central cross-sections thereof, showing the stud before and after it is clamped to the leather, respectively. Figs. 6 and 7 are cross-sections of modifications.

45 As shown in the drawings, the stem of the stud is of tubular form and is flared outwardly and bent downwardly at its upper end, so as to form a mushroom-shaped head. A circumferential flange 3 is formed midway between said head and the lower end of the

tube by bending the sides of the tube outwardly, as shown in Figs. 4 and 5.

When the stud is secured to the leather, the tubular portion 4 at the lower end of the stem is passed through a hole in the leather adjacent the lacing-opening, and then this tubular portion is spread outwardly, forming a circumferential flange, between which and the annular flange 3 the leather is clamped, as indicated in Fig. 5.

In Fig. 6 I show a modification which consists of a thimble 6, having a circumferential flange 3, previously described. With this modification the thimble is slipped on over the stem, so that its upper end is pressed against the mushroom-shaped head and the leather is clamped between the flange 7 and the lower end of the tube, as before described.

As shown in Fig. 7, I may also cut my combined stud and eyelet out of metal without bending or spreading it; but I do not consider this a preferable form of my invention. This modified form consists of the mushroom-shaped head 2', a solid intermediate circumferential flange 3', and the lower tubular portion 4'.

In practice the space between the flange 3 and the lower edge of the head 2 is just sufficient to permit the passage of the shoe-lacing therebetween, so that when the lacing is passed about the stem it will slightly more than fill this space, and thus prevent the clothing from catching on the head of the stud. As the head is bent downwardly as well as outwardly, there are also no rough edges on which the clothing may catch.

The diameter of the tube or stem is sufficient to permit the passage of the lacing therethrough, so that when the shoe is provided with my lacing-stud the wearer may lace up the shoe as far as he desires and then wrap the lacing about the stem in the same manner as if it were an ordinary lacing-hook.

Having described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is as follows:

1. A combined lacing-stud and eyelet consisting of a stem having a lacing-passage extending longitudinally thereof, a circumferentially-extending head at one end of said



stem, and a circumferential flange extending from said body intermediate said head and the opposite end of said body.

5 2. A combined lacing-stud and eyelet consisting of a stem having a lacing-passage extending the entire length thereof, said stem having a mushroom-shaped head at one end and a circumferential flange which is formed integrally with said stem and extends there-  
10 from at an intermediate point between said head and the opposite end of said body, the space between said head and said flange being sufficient to permit the passage of a lacing therebetween, substantially as described.

15 3. A combined lacing-stud and eyelet consisting of a stem having a lacing-passage extending the entire length thereof, said stem

having a mushroom-shaped head at one end and a circumferential flange which is formed integrally with said stem and extends there- 20 from at an intermediate point between said head and the opposite end of said body, the space between said head and said flange being sufficient to permit the passage of a lacing therebetween, and an integral securing- 25 flange at the opposite end of said stem, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GUSTAF L. REENSTIERNA.

Witnesses:

B. J. NOYES,

LOUIS H. HARRIMAN.