

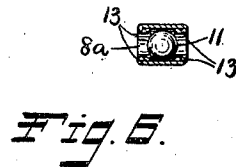
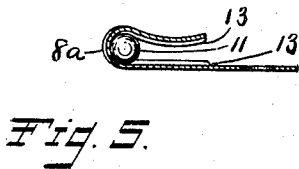
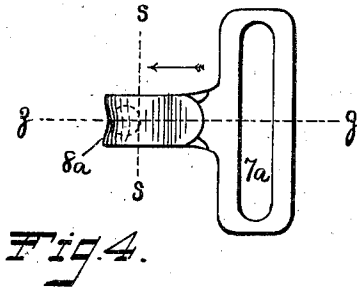
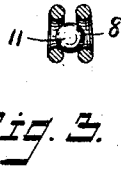
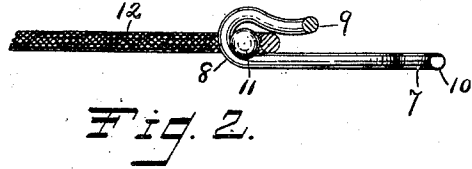
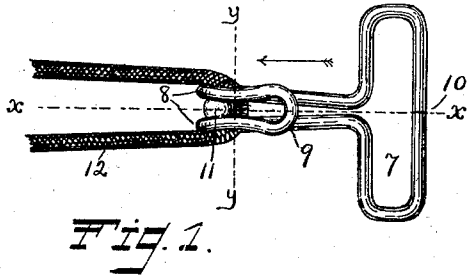
No. 725,005.

PATENTED APR. 7, 1903.

R. A. MOORE, JR.  
BALL BEARING HOLDER FOR CORDS.

APPLICATION FILED JAN. 14, 1903.

NO MODEL.



Witnesses.

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*Att'y.*

# UNITED STATES PATENT OFFICE.

ROSWELL A. MOORE, JR., OF KENSINGTON, CONNECTICUT, ASSIGNOR TO  
CHARLES SCHEUER AND MAURICE SCHEUER, OF NEW YORK, N. Y.

## BALL-BEARING HOLDER FOR CORDS.

SPECIFICATION forming part of Letters Patent No. 725,005, dated April 7, 1903.

Application filed January 14, 1903. Serial No. 138,990. (No model.)

*To all whom it may concern:*

Be it known that I, ROSWELL A. MOORE, JR., a citizen of the United States, residing at Kensington, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Ball-Bearing Holders for Cords, of which the following is a specification.

My invention relates to improvements in ball-bearing holders for cords; and the object of my improvement is simplicity and economy in construction and efficiency in use.

In the accompanying drawings, Figure 1 is a front elevation of my holder, together with a portion of a hose-supporting cord in engagement with the said holder. Fig. 2 is a longitudinal section of the same on the line  $xx$  of Fig. 1. Fig. 3 is a transverse section of the same on line  $yy$  of Fig. 1. Fig. 4 is a front elevation of my holder in a modified form—that is, made of sheet metal instead of wire. Fig. 5 is a longitudinal section of the same on the line  $zz$  of Fig. 4. Fig. 6 is a transverse section of the same on the line  $ss$  of Fig. 4.

In Figs. 1, 2, and 3 I make my holder in the form of a hook from a single piece of wire bent to form the eye 7 for attaching to a webbing or strap, the said eye being inclosed by a single strand or member, while the shank and body of the hook are formed of a double strand or member, which double member is doubled upon itself to form the bend or bottom 8 of the hook, as shown. I prefer to form the end of the hook by doubling the two members one upon the other to make the rounded nose 9 of the hook, as shown, while the two ends of the wire meet each other in the back of the eye, as at 10, Fig. 1. Between the double members, within the bend of the hook, I confine a ball 11, which is loosely held therein, so that it may move and change its position from time to time, but is confined therein against being detached. This can readily be accomplished by having the double members of the hook properly spaced relatively to the size of the ball and bending in the hook toward the nose, so as to prevent the escape of the ball, all as shown. This holder is designed for use in connection with a cord 12 in a hose-supporter or other article in which a cord extends through or over a holder, as shown in Figs. 1 and 2. This makes a very cheap and inexpensive holder, in which the cord may

slip or slide easily through the bend of the holder, as the ball has a smooth surface of the proper shape and projects inwardly, so as to give the cord an easy curve without undue pressure on the sides of the holder.

In Figs. 4, 5, and 6 I have shown a similar hook, of sheet metal, with a ball confined within the bend 8<sup>a</sup> of the hook in a like manner. The position of the ball in the hook is indicated by the broken circle in Fig. 4. The eye 7<sup>a</sup> is made by perforating the metal and may be finished in any ordinary manner. The metal at the edges 13 of the shank and body of the hook is rolled over so as to project on the inner face of the hook and confine the ball against moving laterally out of place, while the hook itself is bent so as to confine the ball within the bend. The ball may, if desired, be left free to move within certain limits within the bend of the hook, so as to change its position from time to time.

In both forms of the holder herein shown and described the holder consists of a member having ball-retainers on opposite sides. In the form shown in Figs. 1, 2, and 3 these ball-retainers consist of the wire members, four of which show in the cross-section Fig. 3. In the form shown in Figs. 4, 5, and 6 these retainers consist of the rolled-over edges 13, which extend in the same direction as the said wire members and in like manner inclose the ball on four sides, as shown in the cross-section Fig. 6. In both forms these ball-retainers are doubled upon themselves to form the bend through which the cord passes and to retain the ball therein.

I claim as my invention—

1. A holder for a cord, consisting of a member having ball-retainers on opposite sides, the said retainers being doubled upon themselves to form the bend through which the cord passes, and a ball confined within the said bend by the said retainers, substantially as described.

2. A holder for a cord, the said holder being formed of wire with a ball within the bend of the holder and between the wire members thereof, substantially as described.

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Witnesses:

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