

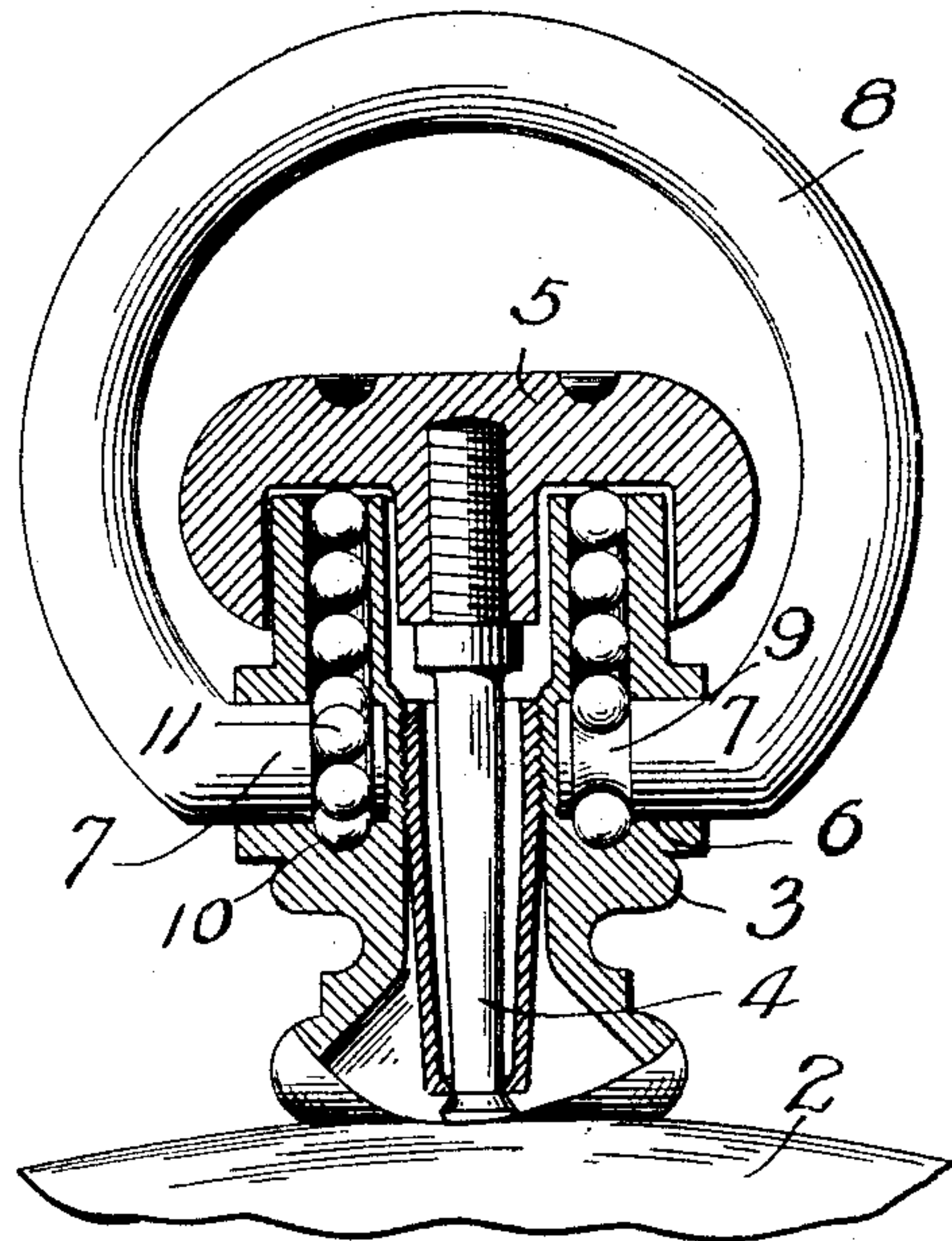
(No Model.)

E. J. SWEDLUND.  
WATCH BOW FASTENER.

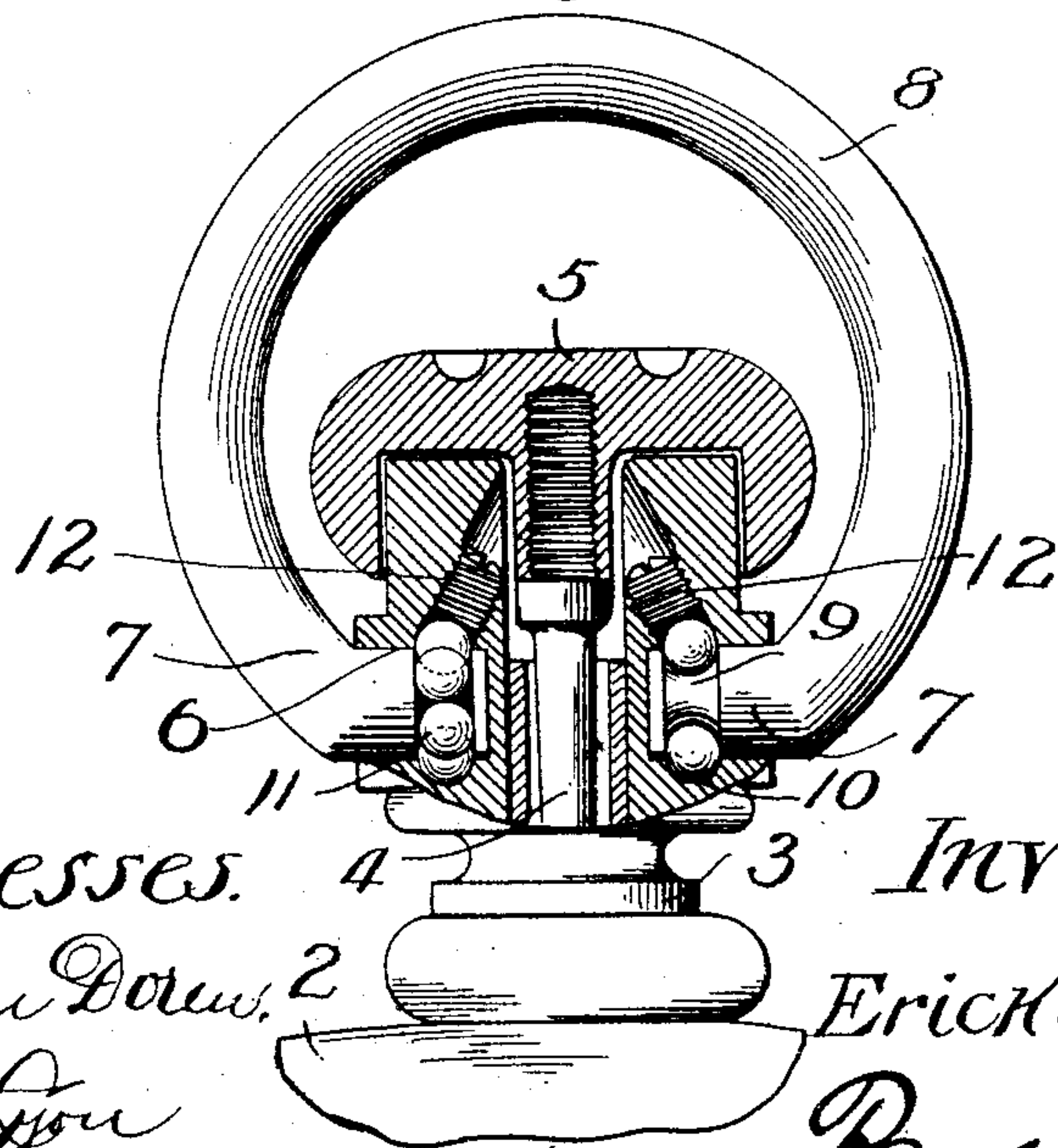
No. 533,928.

Patented Feb. 12, 1895.

*Fig. 1.*



*Fig. 2.*



Witnesses.

C. C. Van Doren.

J. S. Lyon

Inventor;

Erick J. Swedlund.

By *Paul & Hawley*  
his Attorneys.



# UNITED STATES PATENT OFFICE.

ERICK J. SWEDLUND, OF ATWATER, MINNESOTA.

## WATCH-BOW FASTENER.

SPECIFICATION forming part of Letters Patent No. 533,928, dated February 12, 1895.

Application filed October 30, 1893. Serial No. 489,538. (No model.)

*To all whom it may concern:*

Be it known that I, ERICK J. SWEDLUND, of Atwater, Kandiyohi county, Minnesota, have invented certain new and useful Improvements in Watch-Bow Fasteners, of which the following is a specification.

My invention relates to means for fastening the bow in the pendant or head of the watch case.

The object which I have in view is to provide a fastener which may be readily removed to permit the removal of the watch bow; further, to so construct the pendant as to entirely prevent the passage of dust through the opening around the ends of the watch bow and thus into the case and works of the watch.

A further object is to decrease the cost in the construction of this part of a watch and to generally strengthen the pendant and thus render all parts more durable.

To this end my invention consists in the constructions and combinations hereinafter described and particularly pointed out in the claims, and will be more readily understood by reference to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a longitudinal section taken through the pendant and showing one form of my fastener. Fig. 2 is a similar view showing a somewhat different adaptation thereof.

As shown in the drawings, 2 represents the watch case wherein the pendant or head 3 is secured. The pendant is hollow to accommodate the usual winding stem 4 having the crown 5. The sides or walls of the pendant are preferably made somewhat thicker than usual and at opposite points therein and in the lower part I provide the sockets 6 to receive the ends 7 of the watch-bow 8. The sockets do not extend clear through the walls of the pendant, a thin wall being preferably left between each and the inner space or hollow of the head, thus completely shutting off all passage of dust into the same. Each end of the watch-bow is provided with the groove 9, and a similar annular groove 10 is made within each socket forming an expansion or recess therein. These grooves are so placed as to leave a bearing on both sides of the groove in the end of the bow. When the end of the bow is inserted in the socket a complete annular and circular groove or channel is made, and into these I drop a number of small

balls 11, the number being preferably such as to completely fill the space around the end of the bow and thus prevent rattling of the balls. For inserting the balls a small hole may be drilled down through the top of the pendant and entering the channel, or a similar hole drilled from the inside of the head toward the channel, as shown in Fig. 2 of the drawings. In the latter case the slanting duct or hole is closed by a screw or plug 12. Where the vertical duct is employed, as shown in Fig. 1, enough balls may be used to completely fill both the duct and the channel around the end of the bow, the crown 5 being depended upon to hold the balls from falling out, otherwise a plug may be placed in the hole or a small pin may be inserted across the bottom thereof.

With either construction the watch bow is securely fastened in the pendant, and owing to the ball bearing, which is practically secured, will move firmly in the sockets.

The manner of unfastening the ends of the bows is obvious.

It is obvious that the particular construction shown and described may be somewhat altered without departing from the spirit of my invention, and I therefore do not confine myself to the specific constructions shown and described.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination, with a watch pendant or head, provided with openings or sockets 6 in its side walls, and holes extending into annular grooves 10 arranged within said sockets, of dust proof walls integrally formed with said pendant and separating said sockets from the hollow interior of said pendant, a bow having ends 7 adapted to enter said sockets, said ends being provided with annular grooves 9, locking balls 11 arranged in said grooves 10 and extending into grooves 9, and plugs 12 adapted to close the holes extending into said grooves 10, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 7th day of October, 1893.

ERICK J. SWEDLUND.

In presence of—

OLE A. CHRISTENSON,  
L. A. VIK.