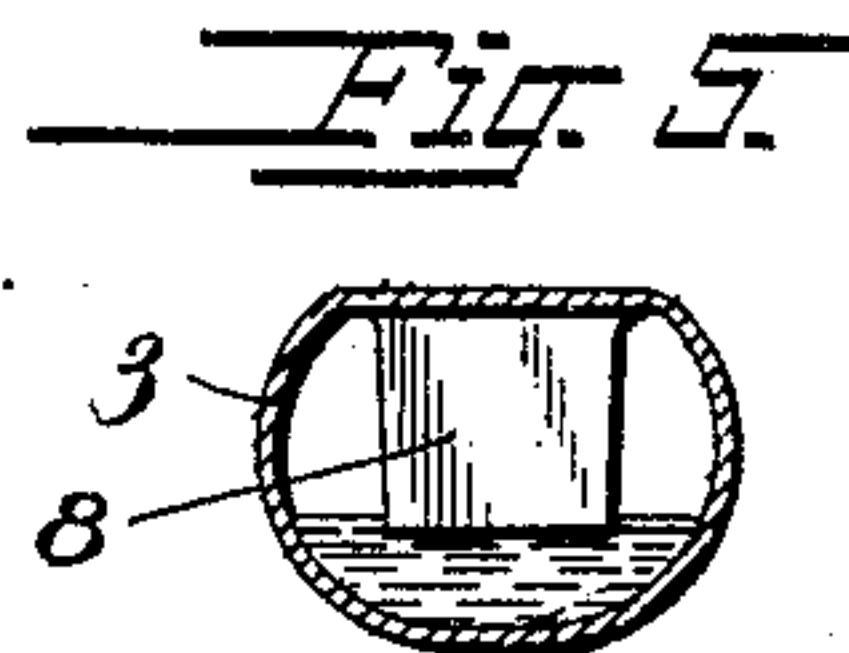
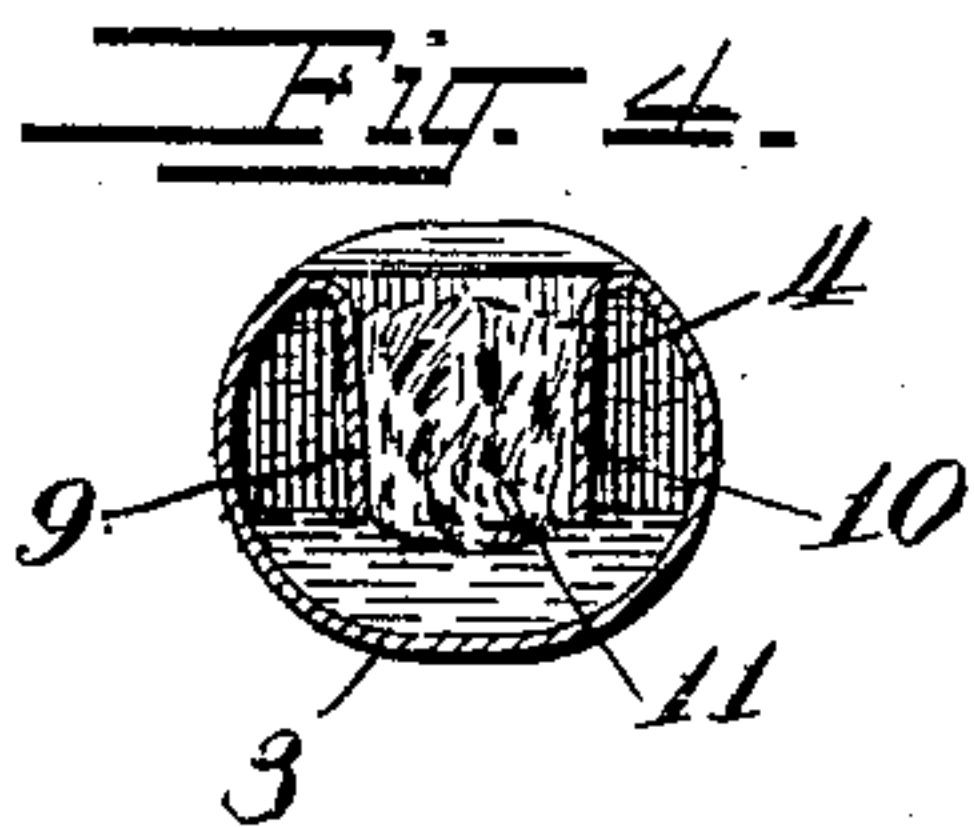
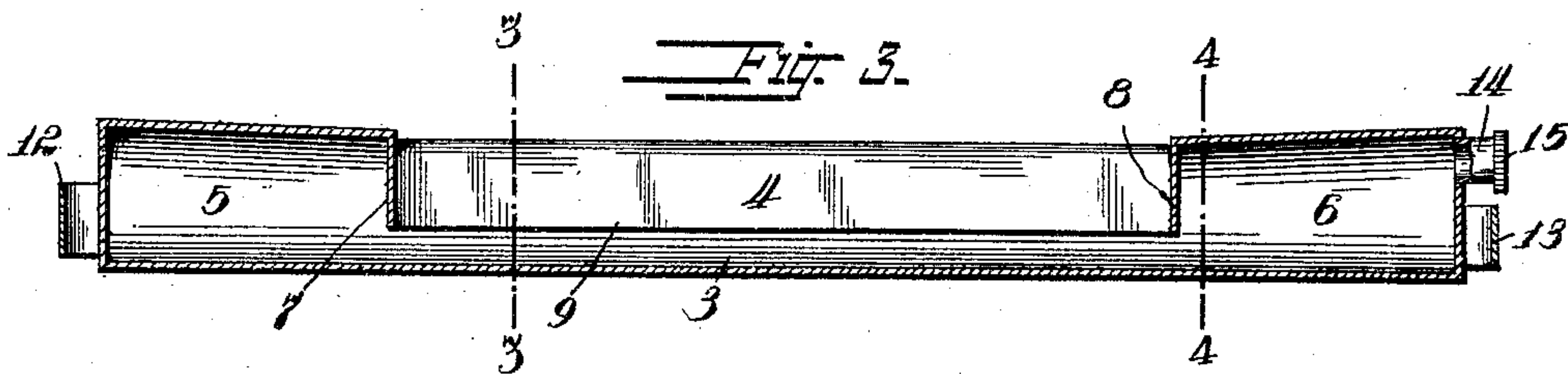
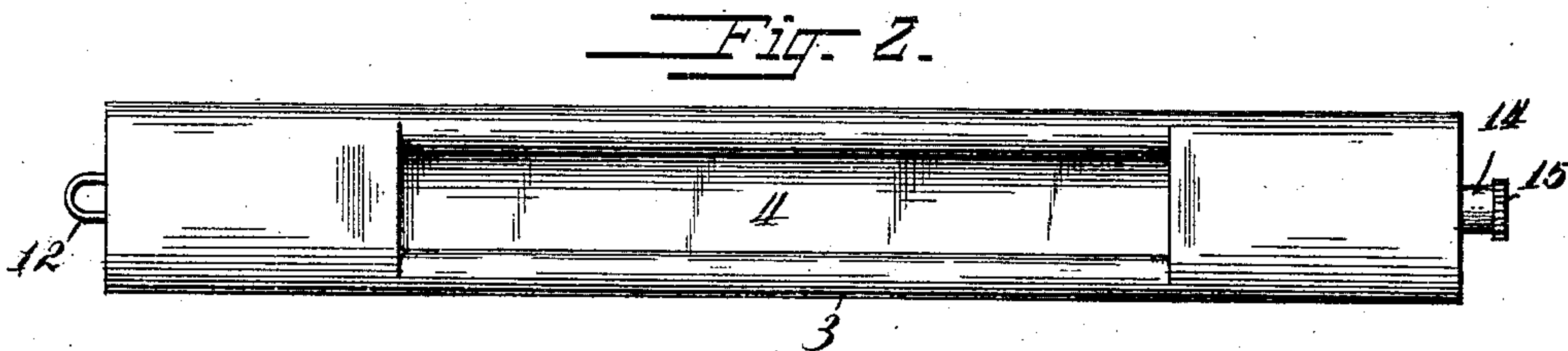
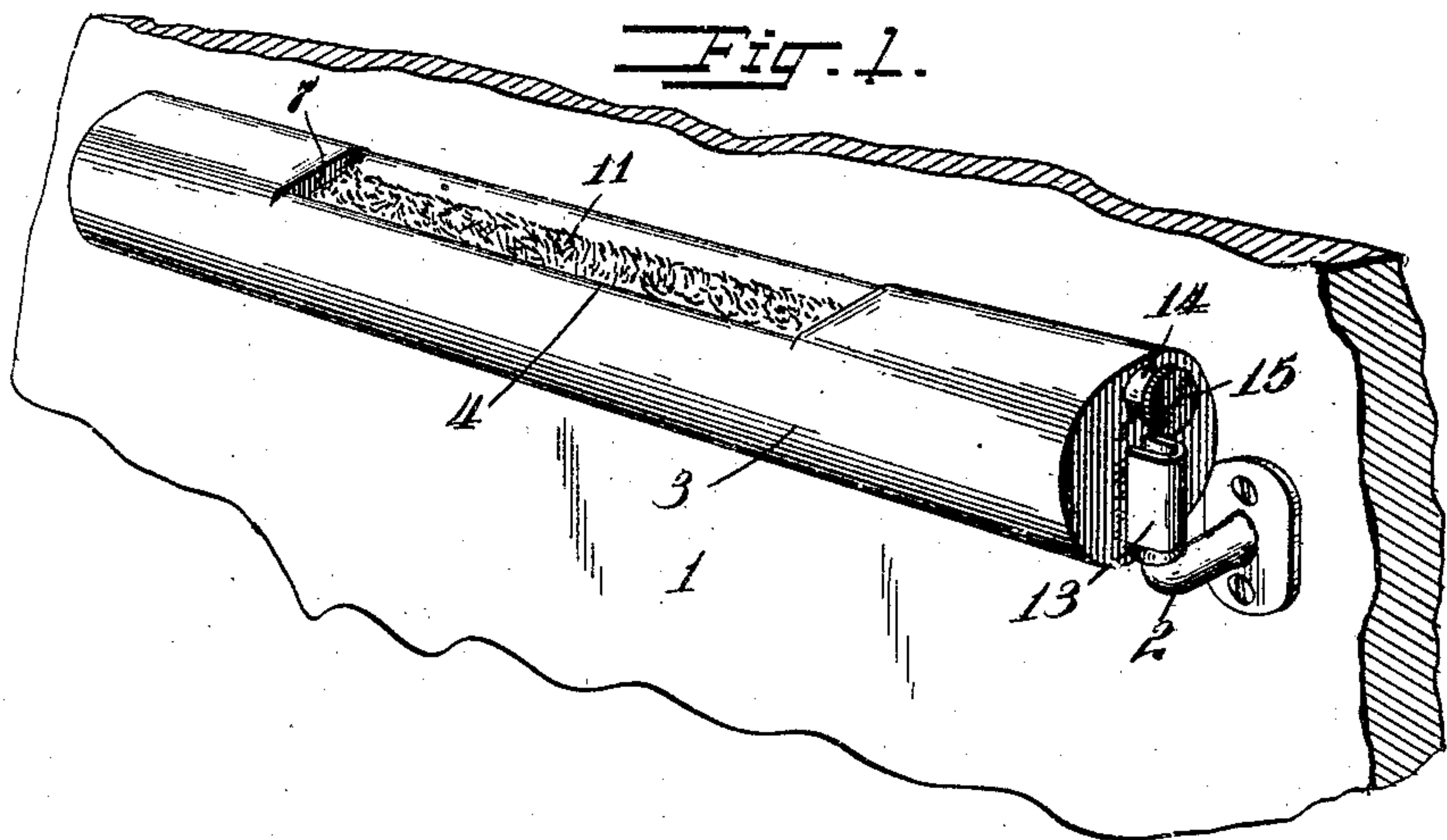


No. 842,955.

PATENTED FEB. 5, 1907.

J. W. JOHNSON.  
AIR MOISTENER OR EVAPORATOR.  
APPLICATION FILED NOV. 10, 1905.



Witnesses  
Milton Lenoir,  
S. H. Ward Jr

Inventor  
John W. Johnson,  
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Attorney



# UNITED STATES PATENT OFFICE.

JOHN WEBSTER JOHNSON, OF LEAVENWORTH, KANSAS.

## AIR MOISTENER OR EVAPORATOR.

No. 842,955.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed November 10, 1905. Serial No. 286,684.

*To all whom it may concern:*

Be it known that I, JOHN WEBSTER JOHNSON, a citizen of the United States, residing at Leavenworth, in the county of Leavenworth and State of Kansas, have invented new and useful Improvements in Air Moisteners or Evaporators, of which the following is a specification.

This invention relates to air moisteners or evaporators.

The object of my invention is the provision of an air moistener or evaporator particularly adapted for use on pianos to properly moisten the air in and around the piano-action, and thereby prevent injury to the piano on account of the dry heat which is caused in modern houses by the use of the ordinary heating systems and which at present is a source of injury to pianos.

The present invention has for its object the provision of an air moistener or evaporator of such improved construction that having once been properly filled with water turning of the device into any position will not cause the escape or spilling of the water and injury to the piano, for it will be understood that pianos are frequently turned on end when being handled; and the present invention is intended for attachment to the back side of the piano-front, near the top thereof and over the action.

The invention consists of an air moistener or evaporator of improved and novel construction and applied to the piano-case in a novel way, as fully set forth hereinafter.

In the accompanying drawings, Figure 1 is a perspective view showing the device attached to the back side of a piano-front, near the top thereof and over the action; Fig. 2, a detail plan view of the device; Fig. 3, a longitudinal section; Fig. 4, a section on line 3 3 of Fig. 3, and Fig. 5 a section on line 4 4 of Fig. 3.

Referring first to Fig. 1, the numeral 1 designates the front part of a piano-case, to the inside of which the present invention is adapted to be attached, over the action, by hooks 2, suitably screwed or otherwise connected to the front 1, thus supporting the device in horizontal position.

The air moistener or evaporator is preferably made of sheet metal and considerably elongated, having a tubular body 3 closed at

both ends and provided with an elongated trough-like portion 4. Chambers 5 and 6 are formed in the ends of the body 3 by the provision of depending end flanges 7 and 8, extending only part way across the body. Depending side flanges 9 and 10 extend inwardly from the margins of the trough-like part 4 and at their ends join the end flanges 7 and 8. These side flanges do not extend to the bottom of the body 3, nor do the end flanges 7 and 8 extend to the bottom of body 3 or crosswise thereof, so that the chambers 5 and 6 are in water communication along the bottom of the body and between the body and the flanges 9 and 10. The trough-like part 4 between said flanges is filled with a sponge or other absorbent material 11. At the ends of the body 3 are loops 12 and 13 to detachably receive the hooks 2. At one end of the body is a tube or nipple 14, closed by a suitable stopper or cap 15, through which the body may be properly filled with water.

To fill the evaporator with water, it is removed from the hooks 2 and held in an upright position and water poured through the tube 14 until the lowermost chamber 5 is filled. The sponge or absorbent material is then placed in the trough-like opening and the evaporator engaged with the hooks 2 on the piano. On account of the peculiar construction of the device the piano can be turned in any direction without causing the water to spill or splash out, and the moist surface of the sponge or absorbent material keeps the air surrounding the piano-action properly moistened by the evaporation.

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

1. An air moistener or evaporator having a body provided with covered ends forming water-chambers, and flanges extending inwardly from said body at the sides and ends of an intermediate open portion.

2. An air moistener or evaporator of substantially tubular form, having covered water-chambers at its ends, and provided with an elongated trough-like open portion intermediate said chambers, and having flanges extending inwardly from said body along the sides and ends of said trough-like portion.

3. An air moistener or evaporator comprising a tubular body having at each end a device for supporting it in a substantially horizontal position, and provided in its top with an opening surrounded by inwardly-extending depending flanges, and a filling of absorbent material in said opening.

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

JOHN WEBSTER JOHNSON.

Witnesses:

SCOTTIE SHEPHERD,  
MAGGIE SCHEN.