

No. 886,632.

PATENTED MAY 5, 1908.

W. H. PERKINS.
POWDER BOX TOP.

APPLICATION FILED MAR. 4, 1907.

Fig. 1.

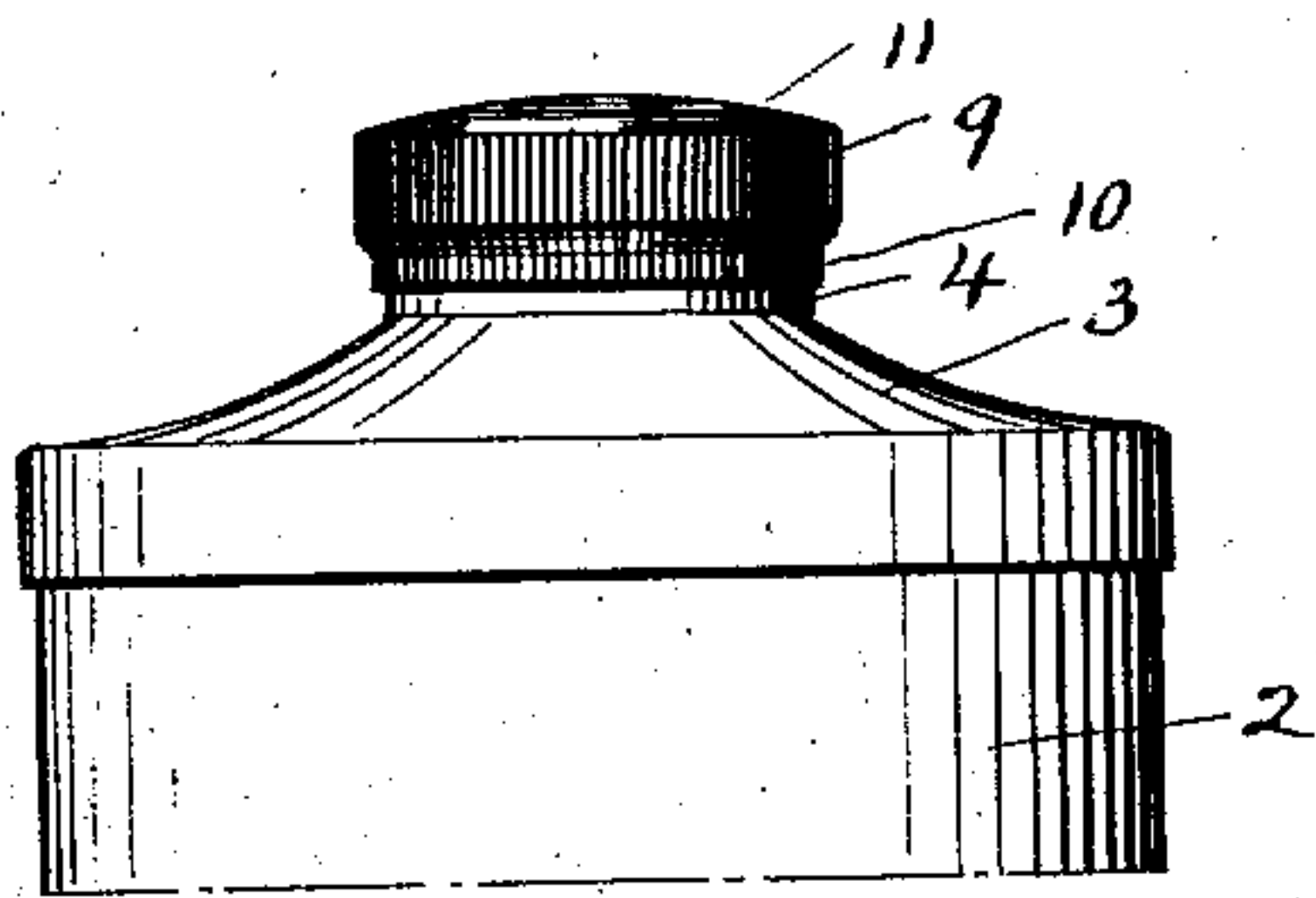


Fig. 2.

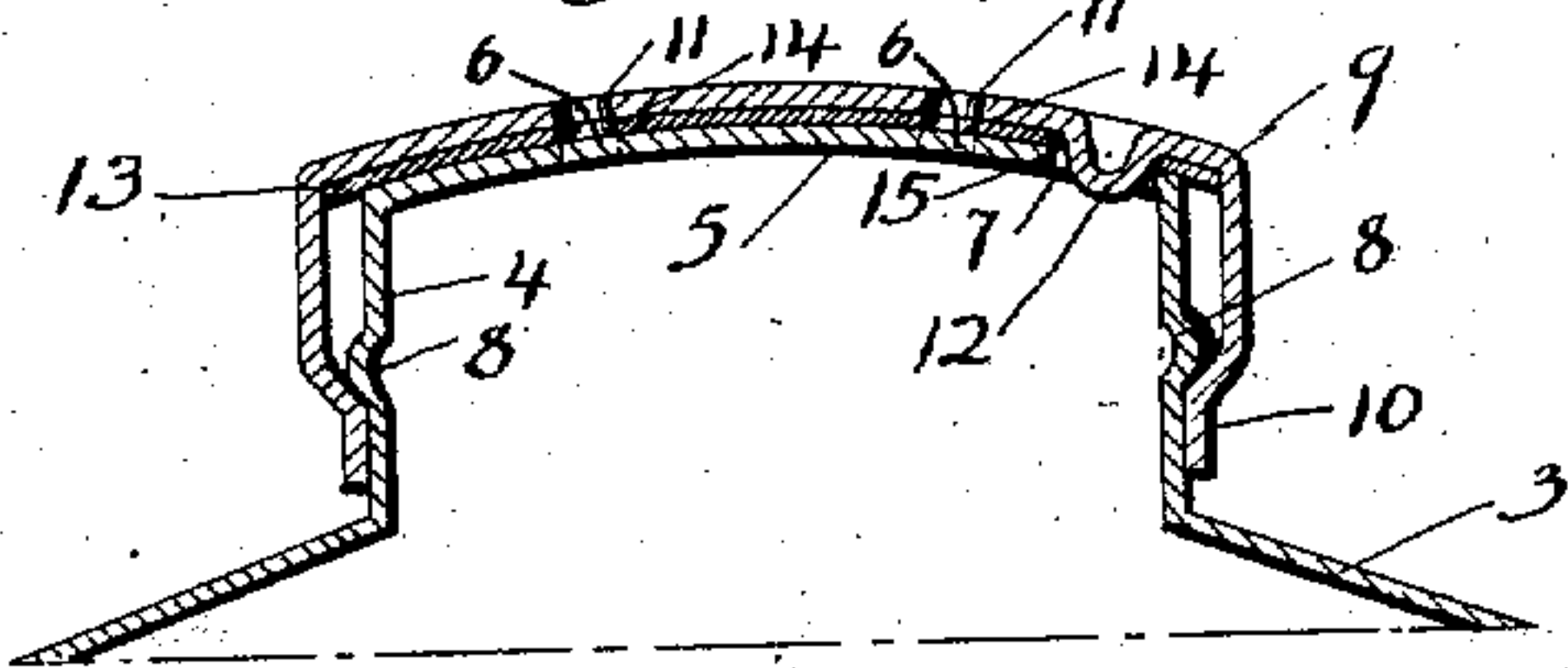


Fig. 3.

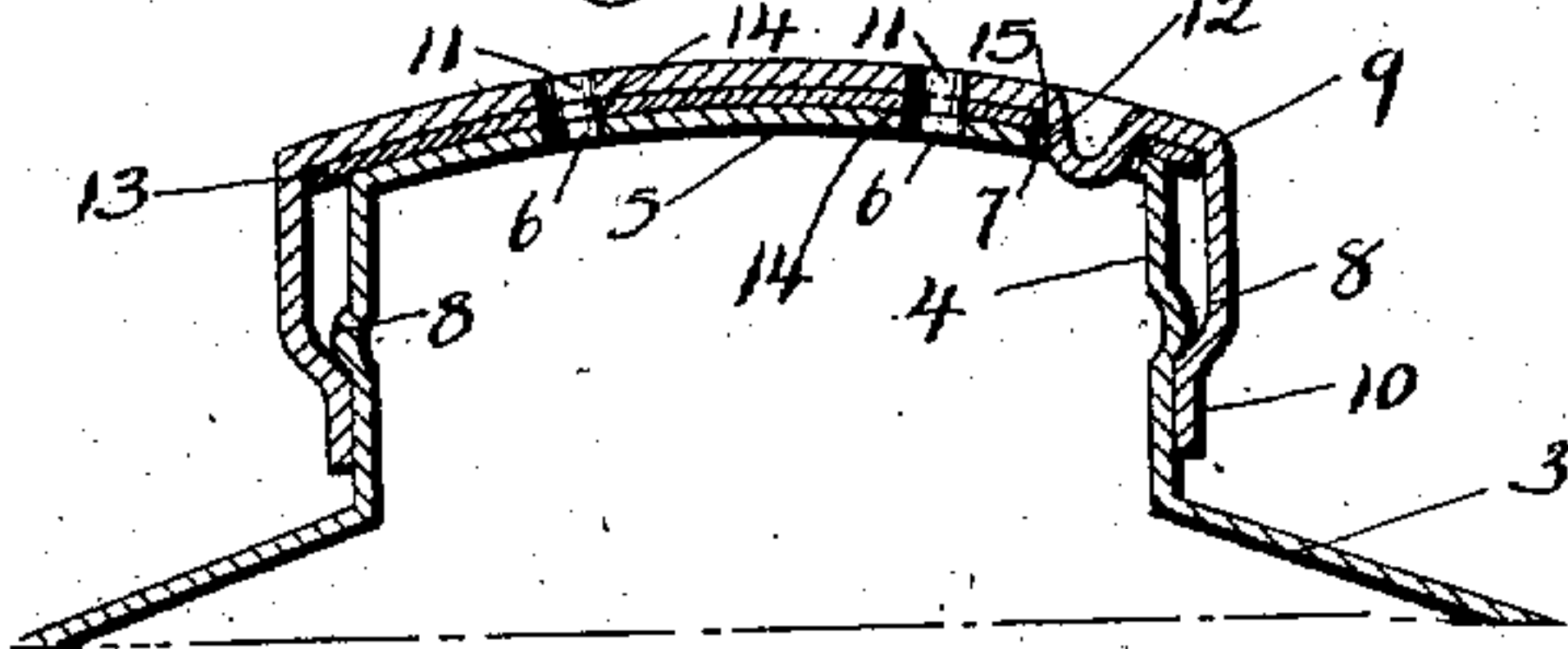


Fig. 4.

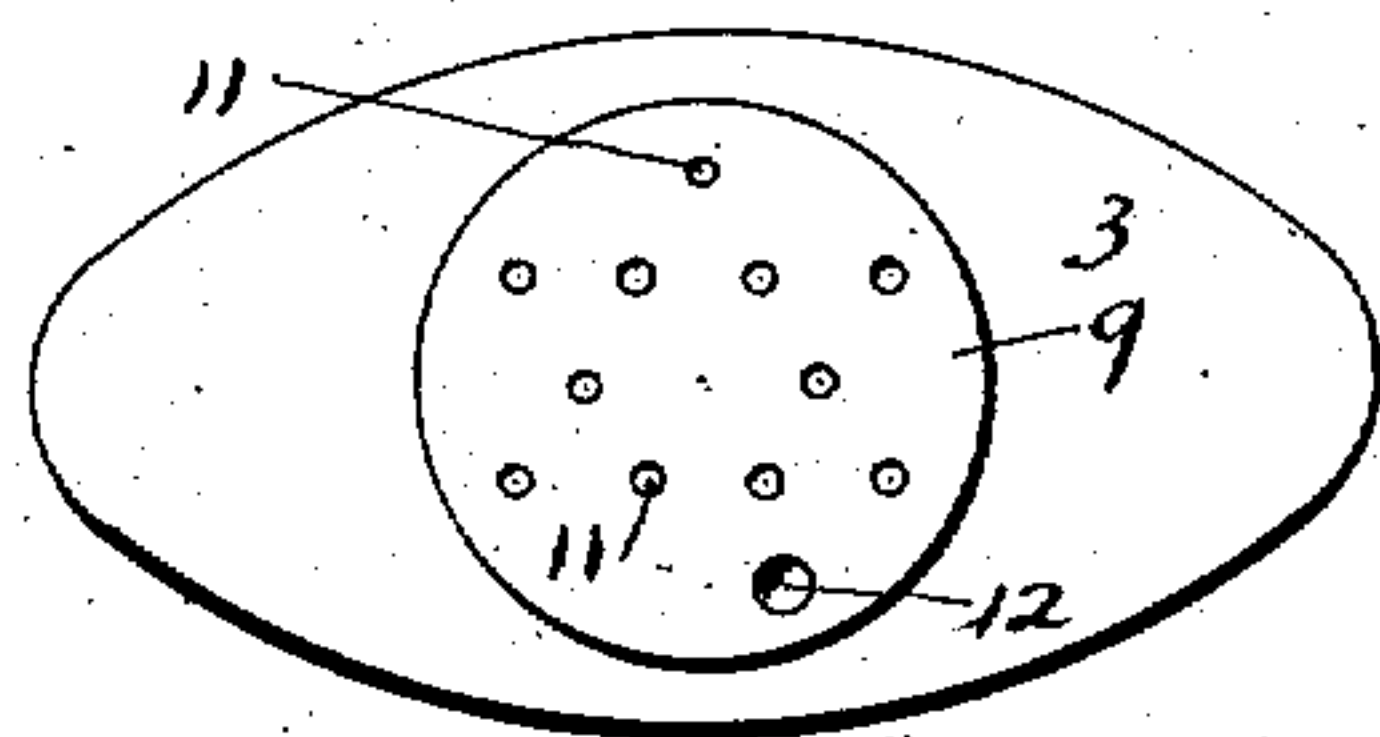


Fig. 5.

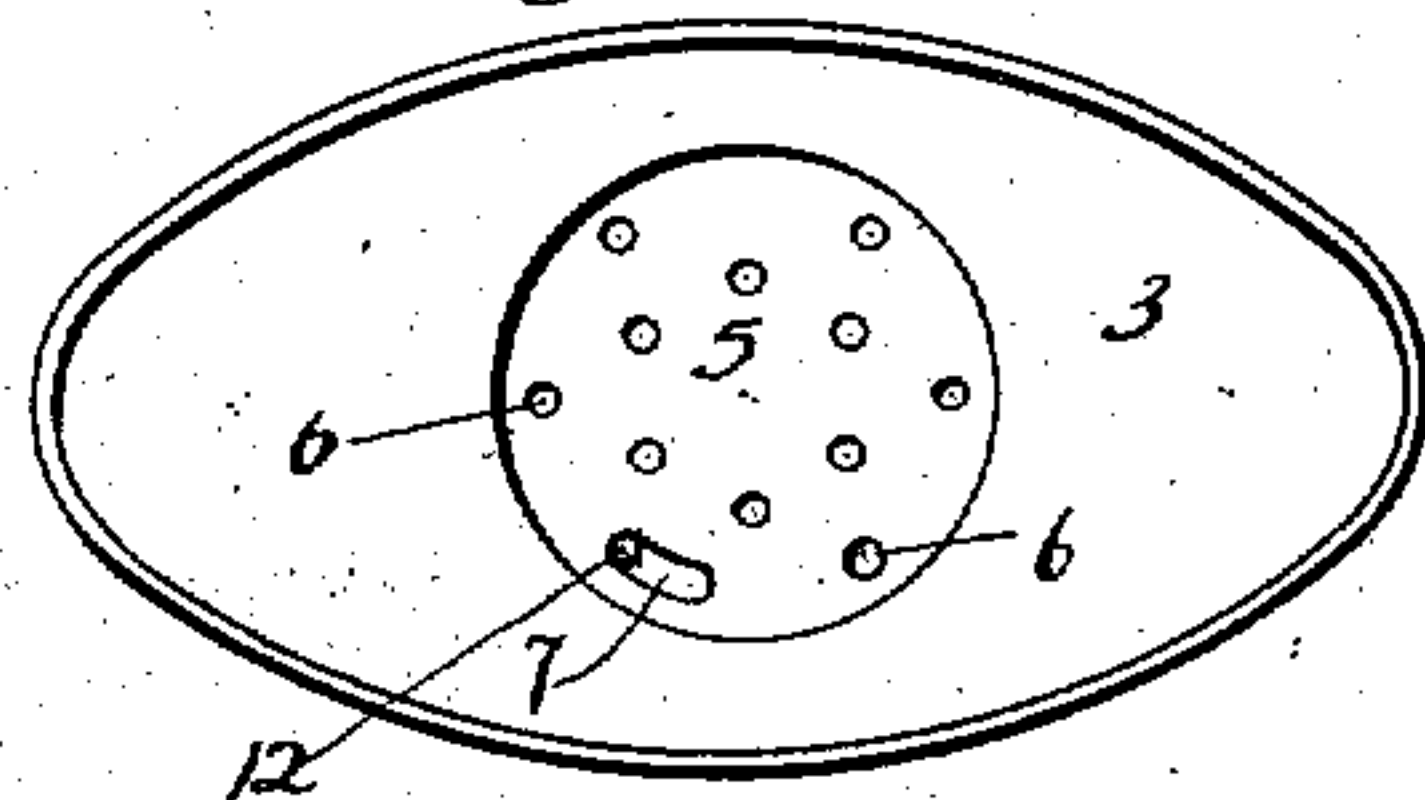


Fig. 6.

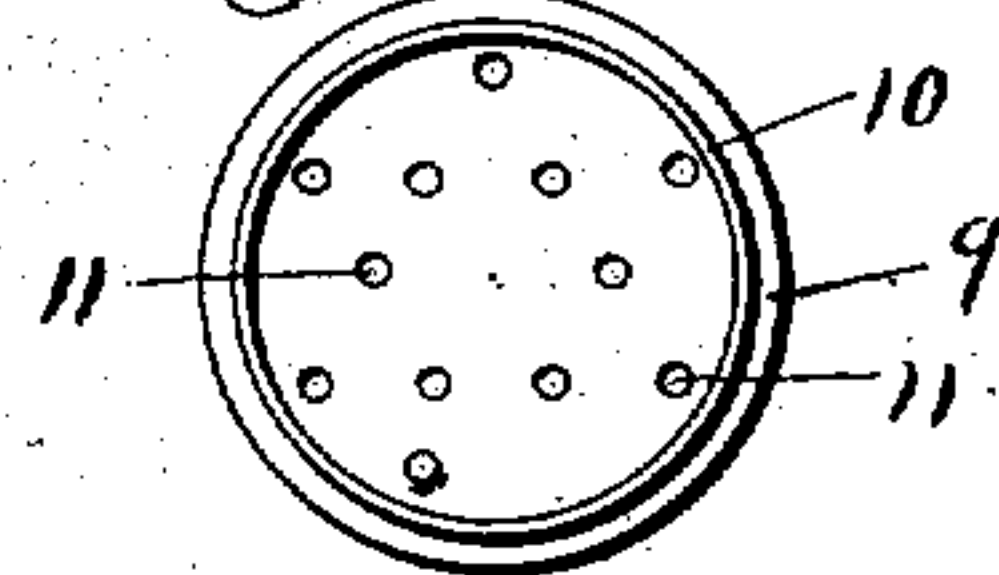
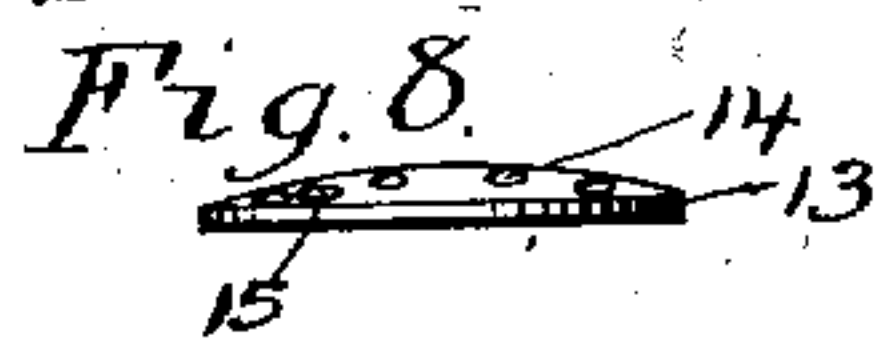
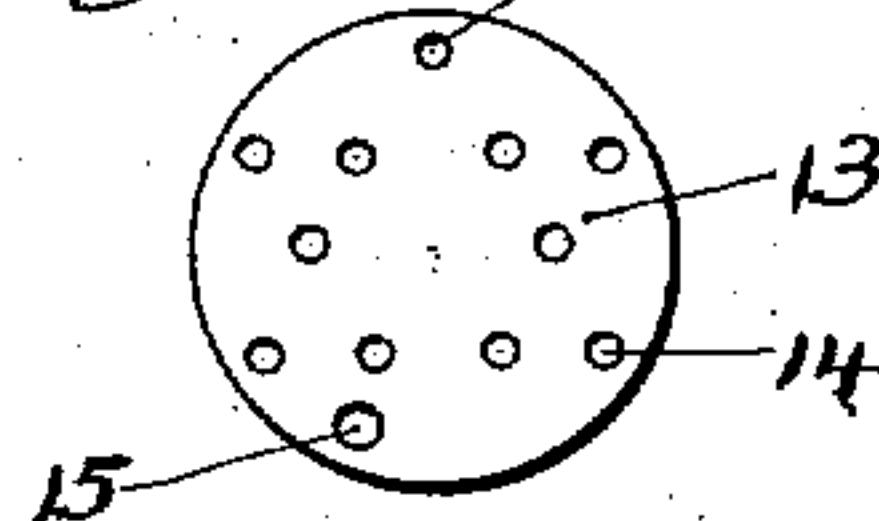


Fig. 7.



Witnesses:
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UNITED STATES PATENT OFFICE.

WALTER H. PERKINS, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE WATERBURY MFG. CO., OF WATERBURY, CONNECTICUT, A CORPORATION.

POWDER-BOX TOP.

No. 886,632.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed March 4, 1907. Serial No. 360,521.

To all whom it may concern:

Be it known that I, WALTER H. PERKINS, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Powder-Box Tops; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a side view of the upper part of a powder box constructed in accordance with my invention. Fig. 2 a transverse sectional view with the cap turned to the closed position. Fig. 3 a similar view with the top in the open position. Fig. 4 a top or plan view of the box. Fig. 5 an inside view of the top of the box. Fig. 6 an inside view of the cap removed. Fig. 7 a plan view of the disk, detached. Fig. 8 an edge view of the same.

This invention relates to an improvement in powder box tops, that is, tops for metal boxes adapted to contain powder and provided with perforations through which powder may be discharged; the object of the invention being a simple and convenient arrangement of parts whereby the box is tightly closed when not in use so that the escape of powder or loss of its medicinal properties is avoided; and the invention consists in the construction as hereinafter described and particularly recited in the claims.

In carrying out my invention, I employ a box 2 of any desired design having a top 3 which is firmly secured to or formed integral with the body. This top is formed with a neck 4 and a crowned top plate 5 formed integral therewith. In this top plate are a series of perforations 6 and a slot 7. Around the neck the metal is thrown out to form an annular rib 8. Setting over the neck is a cap 9 the lower edge 10 of which is turned inward beneath the annular rib 8. In the top of the cap are a series of perforations 11 adapted to register with the perforations 6, and at one point the metal is struck inward to form a short stud 12 which enters the slot 7 so as to limit the rotation of the cap on the

neck. The sides or the cap are milled for convenience in turning. When the cap is turned so that the stud reaches the limit of its movement in one direction, the perforations in the cap and top plate register so as to permit the discharge of the contents of the box. On the other hand, when the cap is turned to the limit of its movement in the opposite direction, the perforations are out of line with each other so that the cap is closed. In order to make a close fit between the cap and the top plate, I insert a disk 13 of paper or any other suitable soft material. This disk corresponds in diameter to the internal diameter of the cap and is provided with perforations 14 corresponding to the perforations 11 therein, and with a clearance hole 15 for the passage of the stud 12. By the engagement of the disk with the stud 12 the disk is held stationary in the cap so that its perforations are always in line with the perforations 11, when the cap is turned so that the perforations 11 in the cap register with the perforations 6, in the top plate. The provision of a disk acts as a sort of packing between the can and top plate so that a comparatively tight joint is made between them to prevent moisture entering when the box is closed and the too free movement of the cap.

I claim:—

The combination with a box having a top, with an integral neck and top plate, said neck formed with an outwardly projecting annular rib, and the top plate formed with perforations and a slot, a cap having milled sides set over said neck and having its lower edge turned into engagement with said rib, said cap formed with perforations to register with the perforations in the top plate, and an inwardly extending stud to enter said slot, and a disk located in said cap and having perforations corresponding to the perforations in the cap, and a hole for engagement with said stud, substantially as described.

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

WALTER H. PERKINS.

Witnesses:

JOHN S. NEAGLE,
H. M. UPSON.