

W. H. PERKINS.

BOX TOP.

APPLICATION FILED MAR. 23, 1908.

928,793.

Patented July 20, 1909.

Fig 1

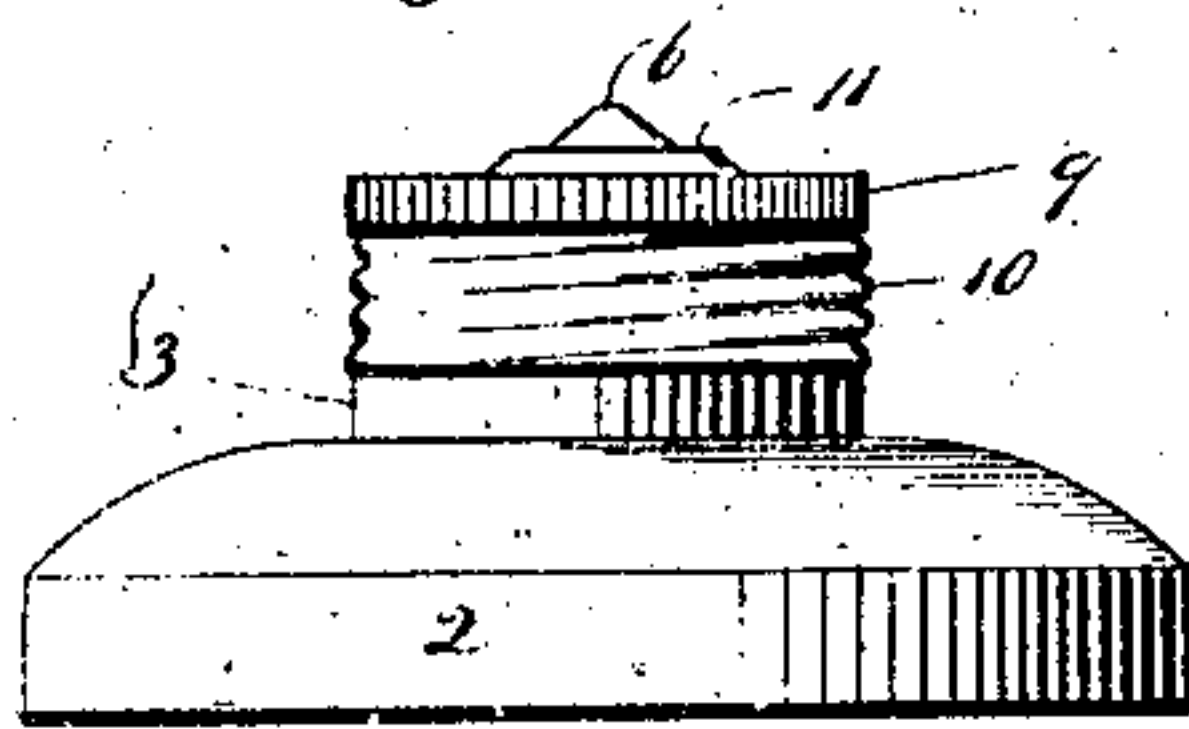


Fig 2

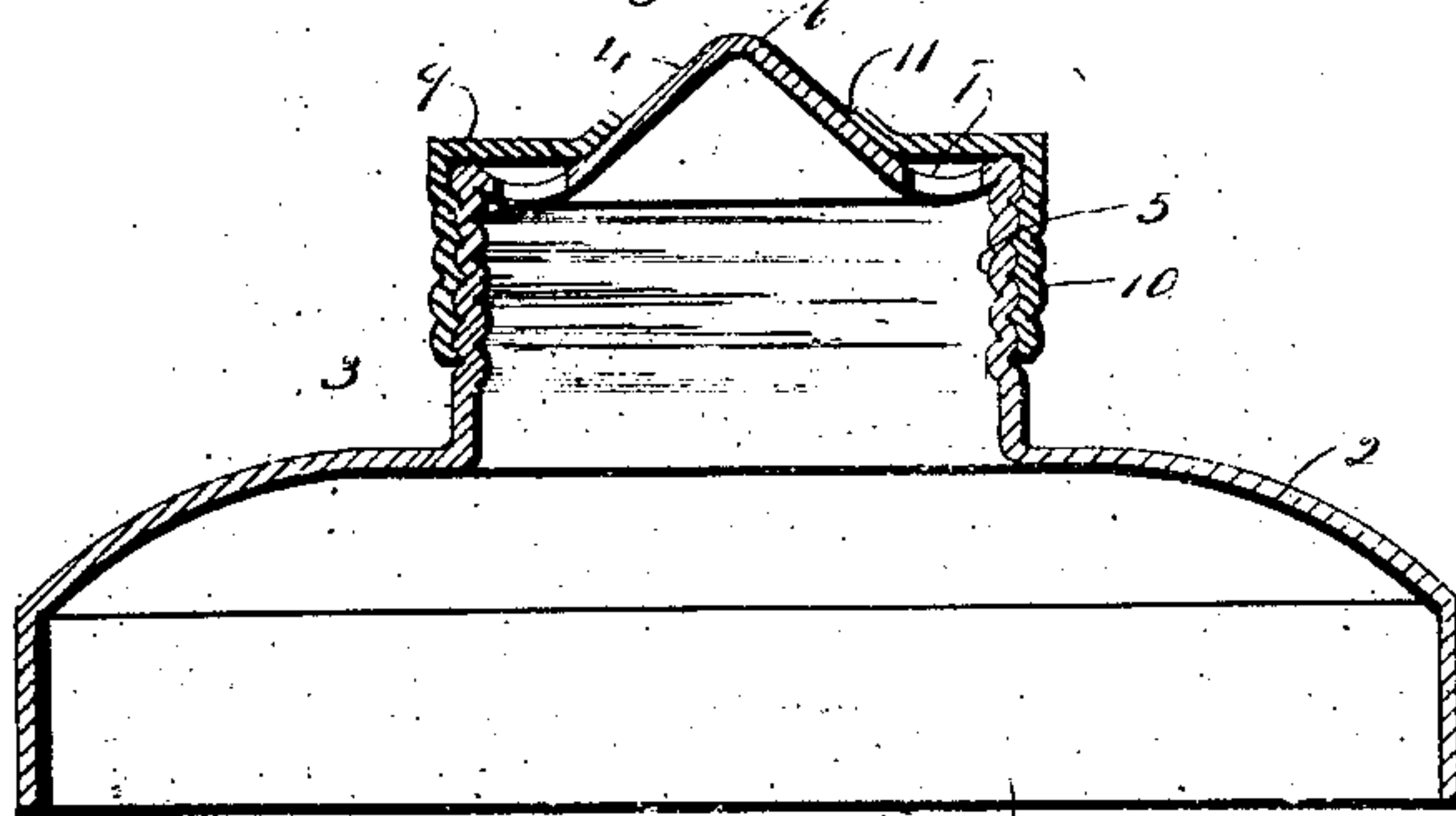


Fig 1

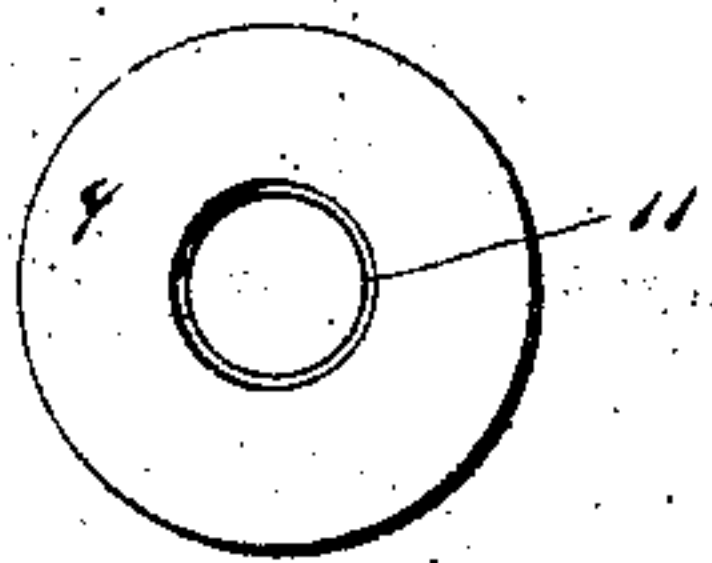
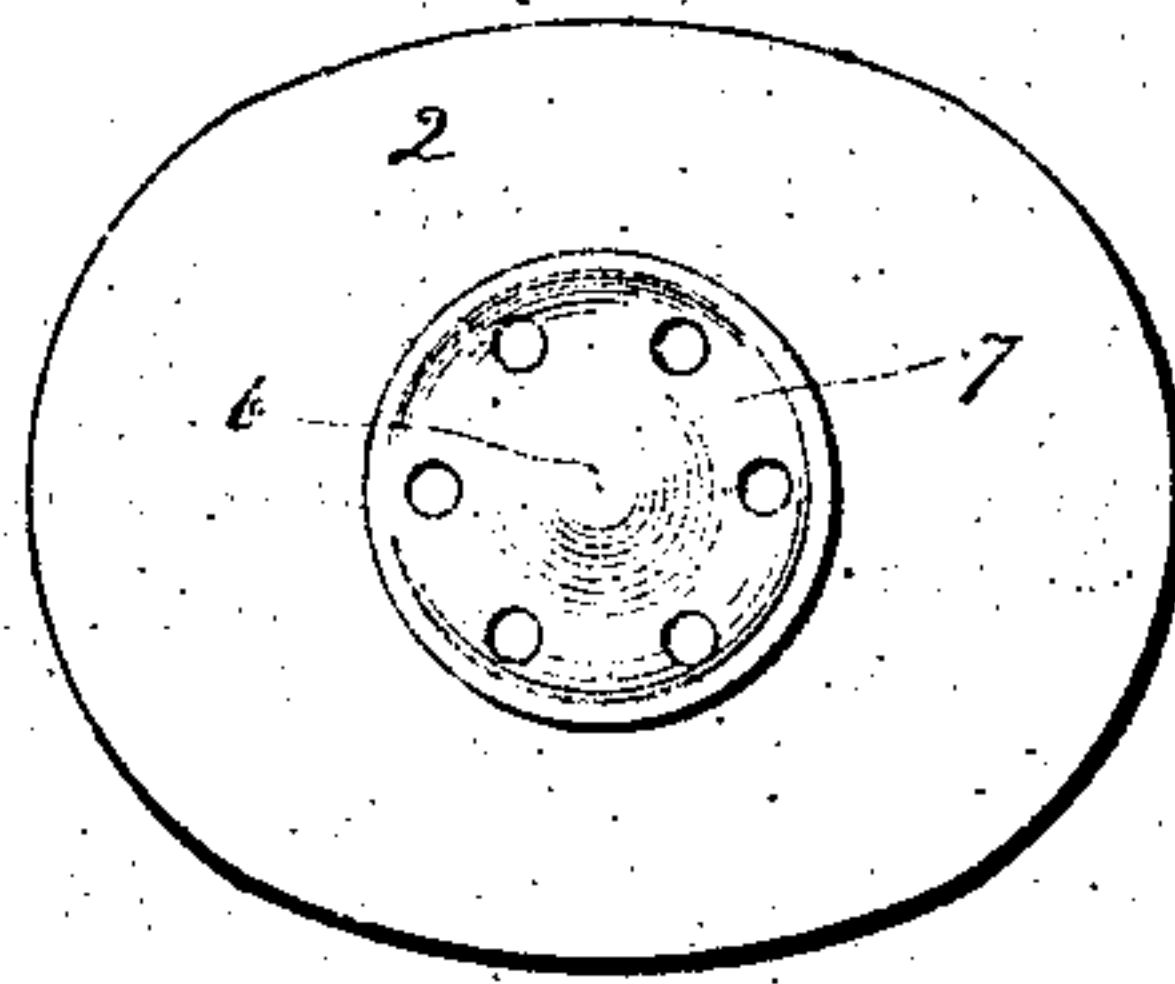


Fig 3



Witnesses

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Attys

UNITED STATES PATENT OFFICE.

WALTER H. PERKINS, OF CHESHIRE, CONNECTICUT, ASSIGNOR TO WATERBURY MFG. CO.,
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BOX-TOP.

No. 928,793.

Specification of Letters Patent.

Patented July 20, 1909.

Application filed March 23, 1908. Serial No. 422,796.

To all whom it may concern:

Be it known that I, WALTER H. PERKINS, a citizen of the United States, residing at Cheshire, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Box-Tops; and I do hereby declare the following, when taken in connection with the accompanying drawings and the numerals 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 the box showing my improved top thereon. Fig. 2 a transverse sectional view of the same on an enlarged scale. Fig. 3 a top or plan view with the cap removed. Fig. 4 a top or plan view of the cap, detached.

This invention relates to an improvement in box tops, and by the term "box" as herein used, I wish to be understood as referring to boxes such as are used for tooth powder or toilet powder, or in the form of bottles for containing toilet preparations, either liquid or powder, or for any other purpose in which it is desired to provide a top which may be opened to permit the contents to escape, the object being to provide a suitable top for cans or boxes or bottles which may be readily closed or opened, and which, when closed will prevent the escape of the contents, and which when open will permit the ready escape of the contents; and the invention consists in a box top having certain details of construction as will be hereinafter described and particularly recited in the claim.

In illustrating my invention I have shown a top 2 which may be of any approved form corresponding to the form of the body of a box or can. This top 2 is upset to form a neck 3 and top plate 4. The neck 3 is formed with threads 5 and the top plate 4 has a conical center and is depressed around the edges to form an annular groove 7 in which there are perforations more or less in number. In other words the top plate 4 is concaved around its edges and convexed or dome-shaped at the center. Upon the

neck is a cap 9 having threads 10 to engage with the threads 5. In the center of the cap is an opening and the edge 11 of the opening is inclined outward corresponding to the inclination of the cone or dome 6 and so that when the cap is turned down upon the neck the edges 11 will closely fit upon the edges of the dome 5 and so close the can. To permit the escape of the contents the cap 9 will be turned so as to move outward upon the neck 3, thus forming an opening between the edges 11 of the cap and the sides of the dome. If, then, the can be inverted the contents will escape through the holes and between the edges 11 and the dome, the inclination of this surface directing the flow of the contents. When the cap is screwed down tight the edges 11 are brought into close contact with the dome so that a very tight joint is secured.

I claim:—

As a new article of manufacture, a powder-box top having a flanged body formed with an uprising threaded neck closed by a top plate consisting of a centrally arranged cone extending above the edge of the neck and surrounded by an annular groove depressed below the said edge of the neck formed with perforations; in combination with a sheet metal cover having a depending threaded flange and having its top extended over the said groove and forming therewith a clearance space and extended upon the said cover and formed with a centrally arranged circular discharge-opening the edge of which engages with the sloping sides of the said cone, whereby any powder that may be caught between the said cover and the said perforated top plate of the neck is prevented from being packed in screwing on the cover and allowed to fall back into the box to which the top is applied.

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

WALTER H. PERKINS.

Witnesses:

LOUIS C. HOBART,
ADOLPH C. RECKER.