(No Model.)

F. H. PALMER.

SHEET METAL CAN.

No. 572,818. Patented Dec. 8, 1896.

Fig. 1.

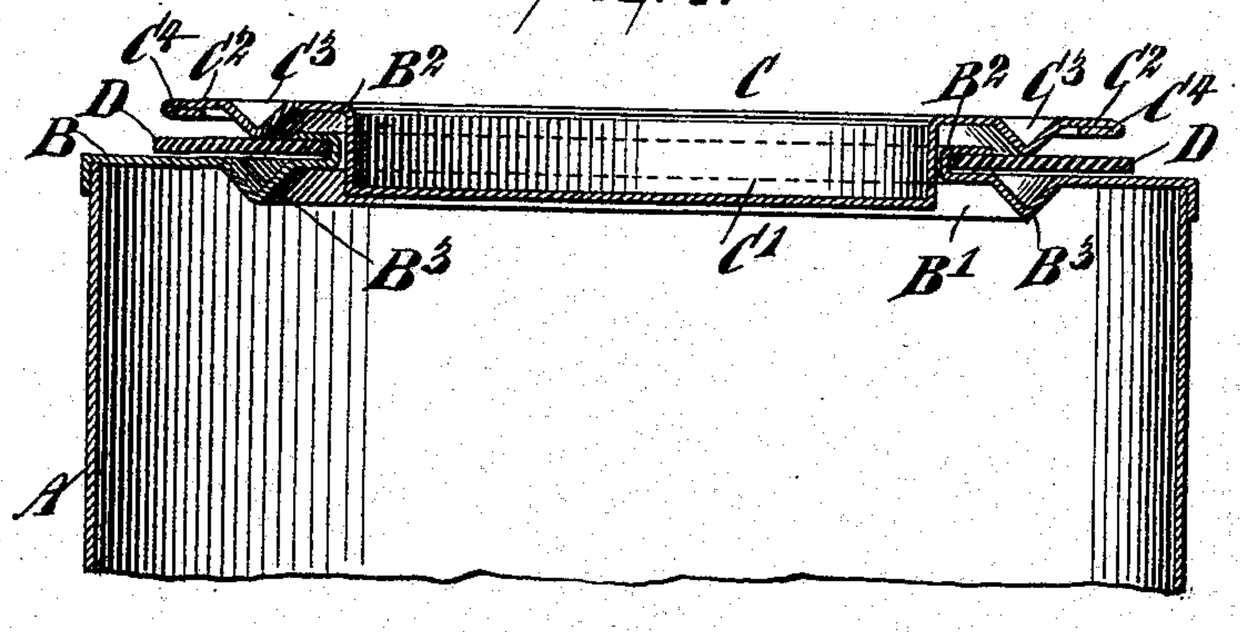


Fig. 2.

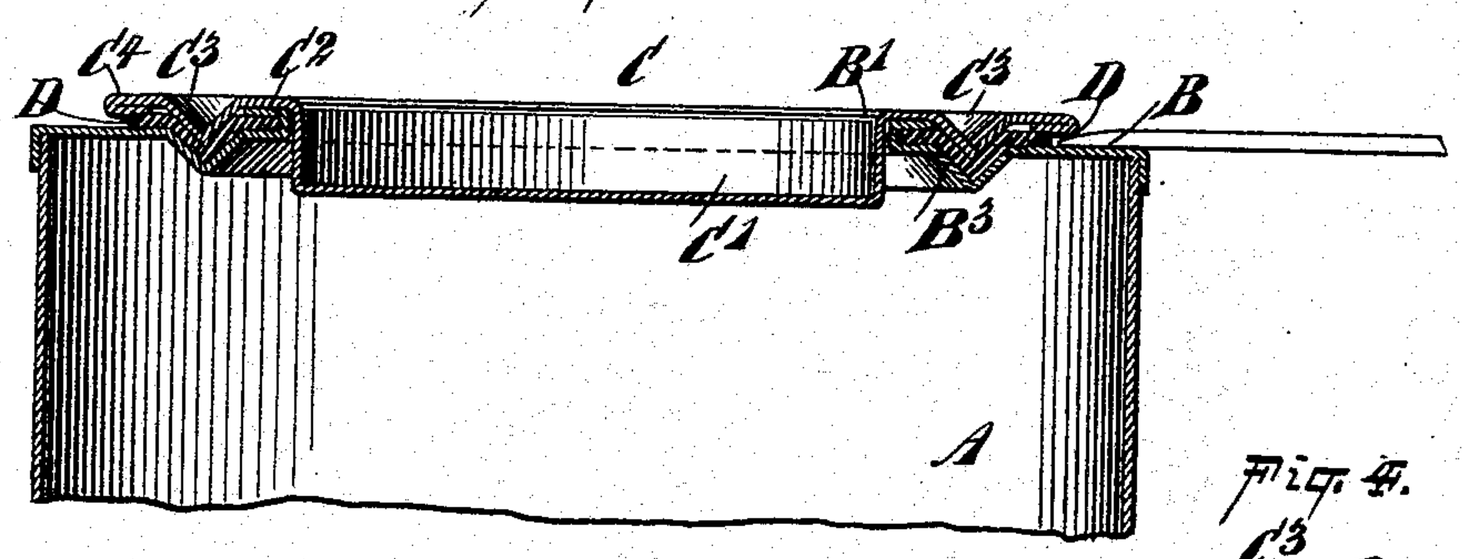


Fig. 4.

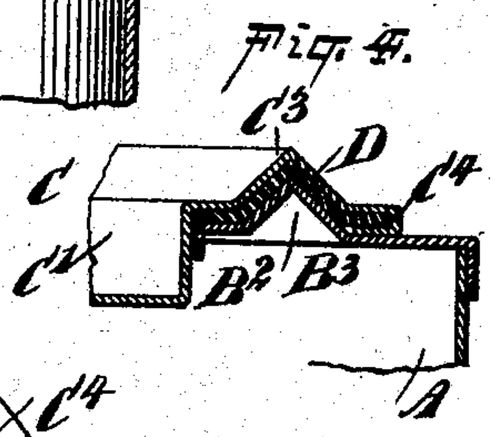
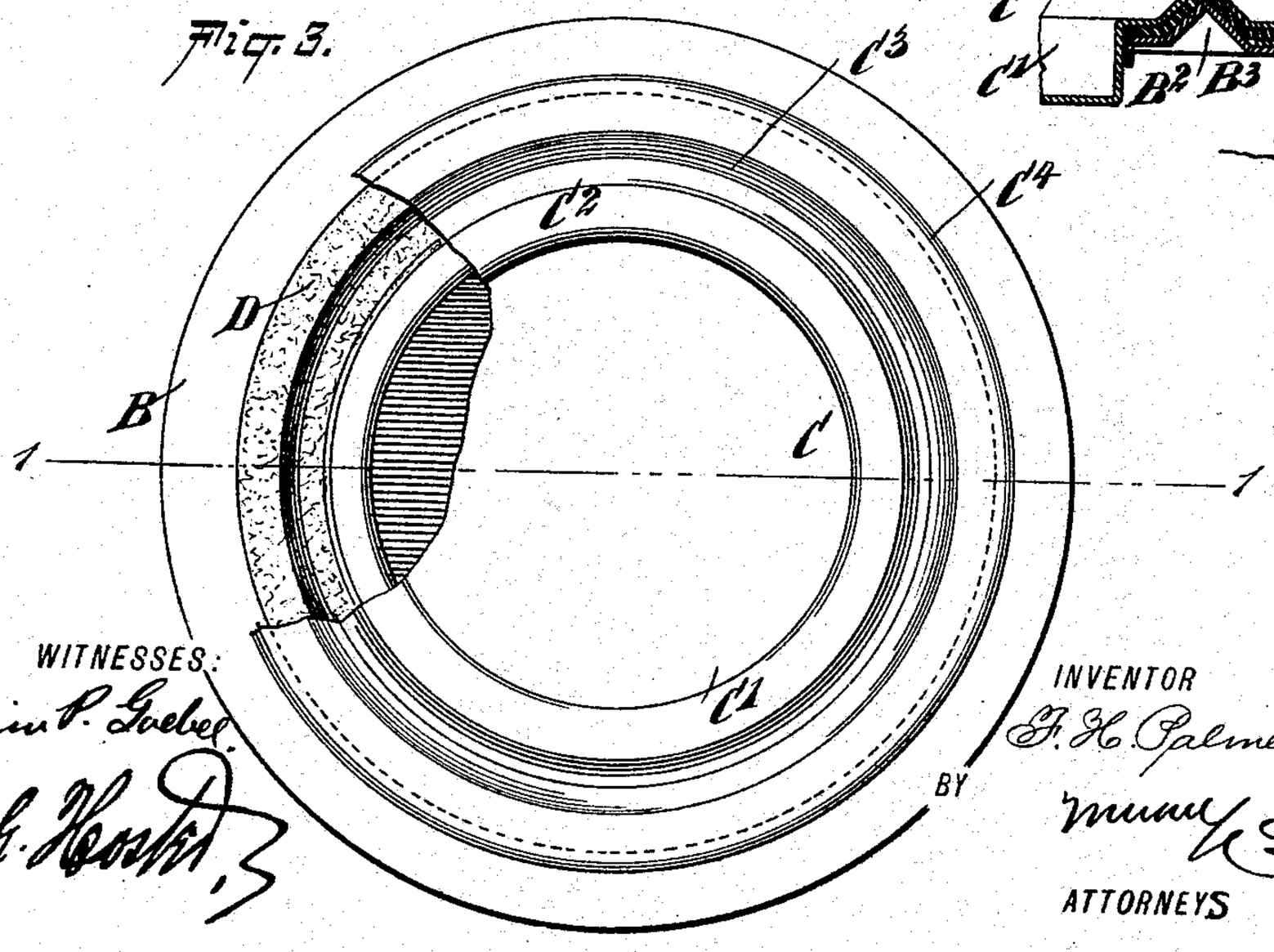


Fig. 3.



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SHEET-METAL CAN.

SPECIFICATION forming part of Letters Patent No. 572,818, dated December 8, 1896.

Application filed January 28, 1896. Serial No. 577,177. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. PALMER, of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Sheet-Metal Can, of which the following is a full, clear, and exact description.

The object of the invention is to previde a new and improved sheet-metal can arranged to insure a tight joint at the cover and to permit of conveniently prying the cover open whenever it is desired to get at the contents of the can.

The invention consists principally of an apertured top for the can-body, a packing-ring adapted to rest on the said top, and a cover having a centrally-depressed portion fitting into the aperture in said top, said cover being provided with an outwardly-extending flange adapted to rest on the top of the packing-ring and extending beyond the outer edge thereof to form a prying-space between said top and the flange of the cover.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side elevation of the improvement on the line 1 1 of Fig. 3, showing parts assembled prior to tightly closing the cover. Fig. 2 is a like view of the same, showing the cover closed. Fig. 3 is a plan view of the same with parts broken out, and Fig. 4 is a sectional side elevation of a modified form of the improvement.

The improved sheet-metal can is provided with a body A, on the upper end of which is secured or formed a ring-shaped top B, adapted to receive in its central opening B′ the side wall of the depressed portion C′ of the cover C. The opening B′ in the body B is formed by a flange B^2, turned upwardly and outwardly, as indicated in Figs. 1 and 2, to engage and hold the inner edge of the packing-ring D, made of a suitable material and resting on the top B of the can-body A. The top of the packing-ring D is adapted to be engaged by the outwardly-extending flange C^2 of the cover C, so that when the cover is closed, as shown in Fig. 2, then the outer edge of the flange C^2 extends a short distance beyond the outer edge of the packing-ring to form a prying-space between the top B and the outer edge of the flange C^2. The outer edge of the flange C^2 terminates a suitable distance from the outer edge of the top B to permit of applying a suitable tool—such as a nail, screw-driver, or the like—on the top B to engage the under side of the outer end of the flange C^2 and pry the cover open, it being understood that the outer edge of the top serves as a fulcrum for the tool.

In order to insure a very tight joint between the cover C and the top B, I provide said top with a V-shaped depression B^3, under the packing-ring D, and a like V-shaped depression is formed on the flange C^2, directly over the depression B^3, to produce a ridge C^3 on the under side of the flange C^2. Now when the several parts are in the position illustrated in Fig. 1 and the cover C is pressed down to close the can, then a portion of the packing-ring D is pressed by the ridge C^3 down into the V-shaped depression B^3, as plainly illustrated in Fig. 2. By this arrangement a very tight and secure joint is formed between the can body and cover.

The outer edge of the flange C^2 is previously turned under, as at C^4, so as to strengthen this part of the flange and prevent the flange from bending when the plying-tool is applied for opening the cover, as previously explained.

The side wall of the central depression C′ of the cover C fits snugly upon the vertical portion of the flange B^2 to render the cover comparatively tight at this point, but it will be seen that by the additional packing-ring applied in the manner shown and described a very tight and secure joint is obtained and all leakage is prevented.

If desired, the packing-ring can be secured at its outer edge in the turned-under part C^4 of the flange C^2, as shown in Fig. 4, and the top of the can-body may be formed with the annular ridge instead of the depression, and a like annular depression is formed on the under side of the flange C^2 of the cover, whereby an annular ridge is formed on the top of the flange, and this ridge forms a rest for an annular depression in the bottom of a can-body, so that when cans are stood on shelves

and one can is placed on top of the other the top can is securely held in place and cannot slide off owing to jar of the building, &c.

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

1. A can having a centrally-apertured top and having an annular recess concentric to the aperture of the top, the top having an outwardly-bent flange, a packing-ring concentric to the aperture of the top, the inner edge of the packing-ring being clamped by the flange and the packing-ring extending over the annular recess, and a cover having a centrally-depressed portion snugly fitting within the aperture of the top, the cover also having an outwardly-extending portion formed with a rib capable of being pressed into the recess in the top and of pushing the packing-ring within said recess, the outwardly-extending portion of the cover being capable of projecting beyond the periphery of the ring, substantially as described.

2. A can having a centrally-apertured top and having an annular recess outward from the aperture of the top, the top having an outwardly-extended flange, a packing-ring, the inner edge of which is held by the flange and the packing-ring extending over the annular recess, and a cover having a centrally-depressed portion fitting within the aperture of the top, the cover also having an outwardly-extending portion formed with a rib capable of being pressed into the recess in the top and of pressing the packing-ring within said recess, substantially as described.

3. A can having an apertured top, a cover having a depressed portion fitting within the aperture of the top, one of said parts having a flange at its edge and a packing-ring, the edge of which is held by the flange, the packing-ring extending horizontally over the top of the can and outward from the aperture therein, the top and cover respectively having an interlocking rib and recess into which the packing-ring is pressed, substantially as described.

4. A can having an apertured top, a cover fitting over the top, one of said parts having at its edge a flange, and a packing-ring, the edge of which is held by the flange, the cover and top respectively having an interlocking rib and recess into which the packing-ring is pressed, substantially as described.

5. In a can, an apertured top therefor, a cover resting on the top, one of the two last-named elements having a flange, and a packing-ring one edge of which is permanently held by the flange, the cover and top respectively having an interlocking rib and recess into which the packing-ring is pressed, substantially as described.

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