

(No Model.)

S. PALMER.
COVERED BOX.

No. 584,270.

Patented June 8, 1897.

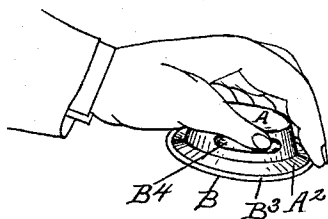


Fig. 1.

Fig. 2.

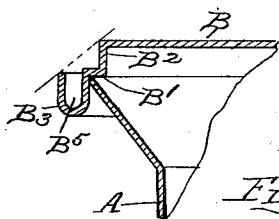
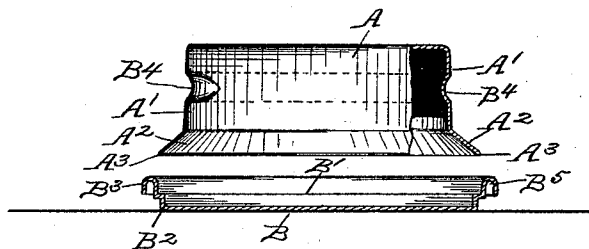


Fig. 3.

Witnesses:

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UNITED STATES PATENT OFFICE.

STEPHEN PALMER, OF LANSINGBURG, NEW YORK.

COVERED BOX.

SPECIFICATION forming part of Letters Patent No. 584,270, dated June 8, 1897.

Application filed January 21, 1896. Serial No. 576,255. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN PALMER, a citizen of the United States, residing at Lansingburg, county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Covered Boxes, of which the following is a specification.

The invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings, and the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in perspective of one of my novel covered boxes with a hand holding the same in position to force the cover therefrom. Fig. 2 is a view, partly in section, of my improved box and cover separated and inverted in the relative positions which they are caused to assume in the operation of placing the cover on the box. Fig. 3 is an enlarged sectional view of a portion of the box and cover.

My improved box and cover are especially adapted to form an inclosure for paste-blackening or other substance to be removed therefrom and applied by means of a brush.

The box A is preferably formed from a single piece of sheet metal by the use of suitable dies, and comprises the body part A' of general cylindrical or slightly flaring form, terminating in a flaring guard-flange A², projecting upwardly and outwardly from the upper end of the body part.

The box is adapted to be grasped by the hand at its body part, and when so held the hand is protected from the brush and its contents in use by the overhanging flaring flange. The flange A² is provided with a die-cut sharp edge A³, adapted to engage and seat upon and within the cover B.

The cover is preferably die-formed from a single piece of sheet metal and formed with an interior seat B' for the box-flange and with a top guard-flange B² above and a side and bottom guard-rim B³ outside of and below the seat B'.

The operation of placing the cover upon

the box is most conveniently performed by placing the cover in an inverted position upon a plane surface or support, as shown in Fig. 2, and applying the box held by its body part in the hand in an inverted position from above, whereby it is not necessary to apply the hand to the cover, and the box is fully seated by being forced downwardly into the cover-recess.

In the operation of removing the cover the covered box is held in an inverted position, the body part being grasped between the thumb and the second, third, and fourth fingers of the left hand, while the index or first finger is applied to the rim of the cover to force the same from the box. As the cover is thus pushed from the box it is permitted to fall to the floor, table, or other support, where it naturally assumes an inverted position adapted to again receive the box-flange.

It will thus be seen that the box is frequently caused to assume an inverted position, and should the contents of the box shrink or contract for any reason they would tend to fall from the box as it is thus inverted. Such a result frequently happens in the use of the ordinary tin box for paste-blackening. Partly to prevent such a result I have provided the body part of the box with one or more indentations B⁴, forming interiorly-projecting flanges which contract the diameter of the box between the bottom and the flaring flange and prevent the escape of the contents of the box as long as they remain integral. Such a construction enables me to permit the walls of the body part to flare toward the open end of the box, thereby facilitating the die-forming process. By providing two such indentations on opposite sides of the box I afford thereby convenient seats for the thumb and fingers in grasping and holding the box during the operations of removing and applying the cover. When desired, such indentations may be so prolonged as to extend entirely around the box in the form of a groove, as indicated by dotted lines in Fig. 2.

The cover is so formed that the box-seat thereon is located wholly inside of a straight line, connecting the extreme edges of the top guard-flange and the rim, as shown in Fig. 3.

It will thus be seen that the flange and rim

will effectually protect the portion of the cover forming the seat from engaging external objects and being marred or indented, so as to prevent the box-flange from being properly seated.

The guard-rim is preferably retroverted to form a marginal gutter B⁵ in the cover, as shown.

I am aware that the particular form of marginal gutter is not new, and also that a seat for the edge of the open top of a box-body has been provided between two flanges formed in the cover, and that the body of boxes has been provided with an annular bead, and none of these matters are claimed, broadly, herein. My improvement requires the body of the box to be flared outwardly at its mouth. By thus flaring the body-wall I am enabled to die-cut the flange at an acute angle to the plane of the flare and to thus secure a sharp and true bearing edge which when sprung against a suitable seat will make a tight joint. Such a seat is furnished by the angular formation at B', and the construction is such that the before-described true edge is in practice held in the angle formed by a die at B' and held midway between the walls inclosing said angle. The joint thus formed is far more efficient in preventing the passage of fluids than an ordinary joint between box and cover. To provide for maintaining the true form of these parts and to prevent bending, marring, or indenting them, I employ a retroverted gutter B⁵. This insures that the edge of said flange, which is its most exposed part, shall not be bent under the flaring box edge and lock the cover to the box; and as made and claimed by me this edge extends sufficiently far outwardly to pend off blows from the angular seat B', whereby the true form of the latter is protected. My improvement consists in these cooperating parts, as herein-after pointed out.

What I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a box, formed from a single piece of metal and comprising an approximately cylindrical body part having opposite indentations to facilitate manipulation and prevent the escape of the box contents, said body part terminating at the open end of the box in a die-formed flared guard-flange having an edge die-cut at an angle to the plane of the flare, of a cover having a seat B' for said die-cut edge of the box-flange and a guttered U-shaped rim adapted in use to extend below the edge of said flange, substantially as described.

2. The combination with a box, formed from a single piece of metal and comprising an approximately cylindrical body part terminating at the open end of the box in a die-formed flared guard-flange having an edge die-cut at an angle to the plane of the flare, of a cover having a seat B' for said die-cut edge of the box-flange and a guttered U-shaped rim adapted in use to extend below the edge of said flange substantially as set forth.

3. The combination with a box, formed from a single piece of metal and comprising an approximately cylindrical body part terminating at the open end of the box in a die-formed guard-flange having a die-cut edge, of a cover having a seat B' for said die-cut edge of the box-flange and a rim extending in use outside a line drawn from the exterior edge of the upper plane of the cover to the exterior of the seat for the said die-cut flange whereby said seat is protected substantially as set forth.

In testimony whereof I have hereunto set my hand this 13th day of January, 1896.

STEPHEN PALMER.

Witnesses:

FRANK C. CURTIS,
F. M. MABIE.