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F. J. DOLAN

1,965,175

BOX

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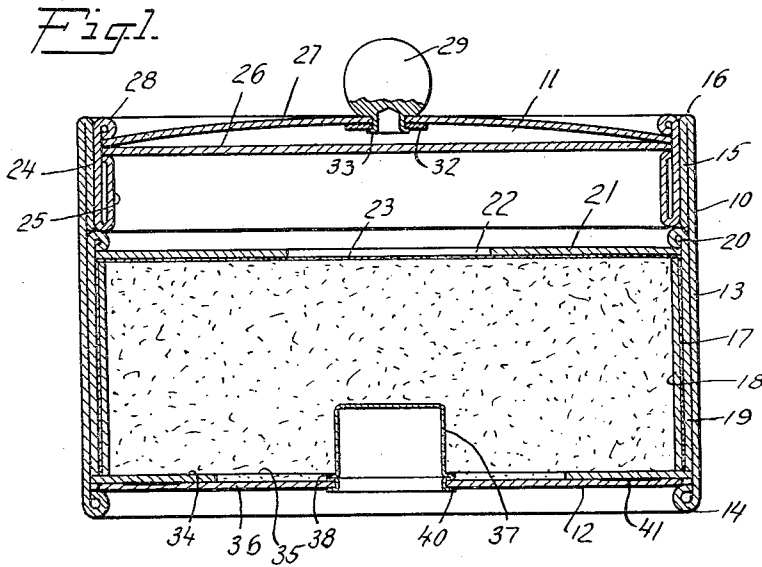


Fig. 3.

Fig. 2.

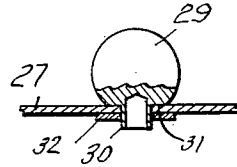
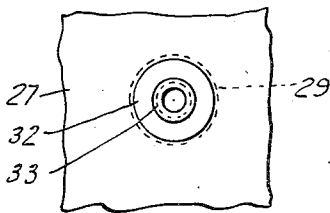


Fig. 5.

Fig. 4.

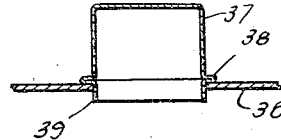
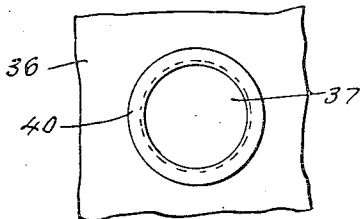
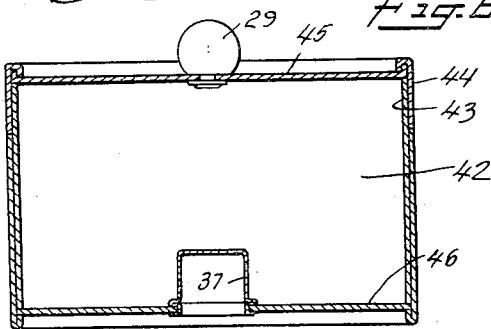


Fig. 6.



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UNITED STATES PATENT OFFICE

1,965,175

BOX

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Application October 22, 1930, Serial No. 490,406

17 Claims. (Cl. 229—6)

This invention relates to boxes of the type commonly used as containers for cosmetics, such as face powder, and other similar merchandise. More particularly, the invention is concerned with a box of the type described which is of a highly ornamental appearance, provided with means of a decorative character for ready removal of the cover, and so constructed that the boxes may be stacked one upon another.

Boxes for face powder are now frequently of cylindrical form and they include a body of round cross-section closed at one end by a bottom permanently fixed in position and having a removable cover which either fits into or over the end of the body. When the cover is received into the end of the body as is the case in the box disclosed in my Patent No. 1,557,144, October 13, 1925, it is desirable to provide some means by which the cover can be readily lifted out of the box. In the box of the patent, the cover is provided with a ribbon strap for this purpose which normally lies flat upon the upper surface of the cover, so that the boxes can be stacked one upon another for storage.

The box of the patent has proven highly satisfactory and lends itself admirably to decoration but more recently, to meet the demand for boxes of decorative and ornamental appearance, I have devised a construction in which the cover is provided with a handle member for ready removal, which member contributes substantially to the beauty of the box as a whole. In one form, this member may be a ball or the like attached to the top of the cover and of a color which harmonizes with the box decoration. While such a member of proper shape and proportions is a desirable feature of the box, its presence on boxes of ordinary construction is objectionable because it prevents the boxes from being stacked. To overcome this difficulty, I have provided my new box with a recess or chamber in the bottom so arranged that it is not visible unless the box is turned up side down. This chamber is of a size sufficient to receive the member attached to the cover so that a plurality of the boxes may be stacked in a column in the same manner as the prior and less attractive boxes.

The combination of features employed in the new box may be used either in connection with a box as illustrated in my patent in which the cover fits into the end of the box or in a box in which the cover fits over the end of the body.

For a better understanding of the invention, reference may be had to the accompanying drawings in which

Fig. 1 is a vertical transverse section through a box embodying my invention;

Fig. 2 is a partial sectional view through a portion of the cover illustrating the manner of attaching the handle member to the cover;

Fig. 3 is a bottom plan view of the construction shown in Fig. 2;

Fig. 4 is a sectional view through a portion of the bottom of the box illustrating the manner of attaching the chamber thereto;

Fig. 5 is a bottom plan view of a portion of the bottom showing the chamber in position; and

Fig. 6 is a sectional view similar to Fig. 1 but illustrating the different type of box.

Referring to the drawing, the box illustrated in Fig. 1 is generally of the construction shown in my prior patent. This box is made up of a cylindrical body generally designated 10, a cover 11 which fits into the end of the body and is removable therefrom, and a bottom 12 which is permanently mounted in position.

The body 10 is of tubular form and is made up of a section 13 of a cylinder of paper board and the like. This section has an inturned bead 14 of substantial size at the bottom end, and at the other end, the edge of the cylinder is turned back upon itself as indicated at 15 to provide a smooth upper end 16 for the section and to give the upper end of the body increased thickness. Disposed within the body is a tubular member 17 made up of an inner cylindrical section 18 and an outer cylindrical section 19, both sections being made of paper board. The section 19 has an inturned bead 20 at its upper end, which overlies the adjacent end of the narrow section, and between the bead and the end of the inner section is a disc 21 having a central window opening 22. This opening is normally closed by a diaphragm 23 of transparent material so that the contents of the box may be examined through the window by a prospective purchaser. The diaphragm is preferably held in place by having its marginal edges gripped between the inner and outer ring sections 17 and 18.

The cover comprises a tubular section 24, one edge of which is turned back upon itself as at 25 to strengthen the section and provide an abutment on which is mounted the inner disc 26 forming a part of the cover which is completed by a domed disc 27 which forms the visible top of the cover. The discs are held in place by an inturned bead 28 formed at the other end of the section 24.

The side wall of the body and the top disc 27 of the cover are commonly given an ornamental

appearance by applying thereto paper which is printed with attractive designs in color. To add to the ornamentation as well as to afford a convenient means for removing the cover, the latter

5 is provided with a member 29 which, as illustrated, takes the form of a sphere. This member is preferably made of metal and a metal will be employed for the purpose which harmonizes in color with the decoration of the box elsewhere.

10 To mount the member in position, various expedients may be employed but I have found that illustrated to be preferable in that it affords a means for anchoring the member rigidly in position and by its use the member can be attached

15 at low cost. The anchoring means includes an extension 30 from the member, which extension is preferably hollow, and the member has a flat surface 31 adjacent the extension. The member is placed on the cover with the extension passing

20 through an opening in the domed top 27 and through a washer 32 on the under side of disc 27. When the parts are in this relation, the end of the extension is upset over the edge of the washer as illustrated at 33 (Fig. 1) so that the member

25 is attached permanently in place.

The addition of the member to the cover enhances the ornamental appearance of the box but would be objectionable unless provision were made to permit the boxes to be stacked. For

30 this purpose, the bottom is provided with a chamber which is of sufficient size to receive the member.

In the construction illustrated in Fig. 1, the bottom consists of an inner disc 34 having a central opening 35, and this disc is placed against

35 the end of the sections 18 and 19 before the bead 14 is formed. Through the opening, the contents of the box, such as face powder, may be introduced and the opening is then closed by an outer disc 36. This disc is of slightly less

40 diameter than the disc 34 and can be snapped in position past the bead 14. The disc 36 is provided with a central opening registering with the opening 35 and in this opening is mounted a cup

45 37 defining a chamber or recess which is of a size sufficient to receive the cover member 28 of another box when one box is placed upon the other.

The cup is preferably of light metal and it may conveniently be held in place by providing it with a circumferential bead 38 spaced a short distance from the margin of the cup. In mounting

50 the cup in place, the open end of the cup is inserted through the opening in the disc 36 so that the cup rests with its bead 38 in contact with the surface of the disc. Thereafter, the

55 margin 39 of the cup is flattened to form a flange 40 which overlies the edge of the disc adjacent the opening. The cup is thus permanently and rigidly held in position with the disc gripped between the flange and the bead.

In closing the boxes after they have been filled through the opening 33 in the inner bottom member, adhesive is applied to the surface of the disc

60 34 to secure the outer disc thereto. For this purpose a ring 41 of glue may be applied to the outer surface of the disc 34 so that the glue lies between the contacting faces of the discs.

The box illustrated in Fig. 6 is of the conventional type and consists of a body 42 having a neck 43 over which the side wall 44 of the cover

70 45 fits. While such a cover can be readily removed from the box since its side wall can be grasped, it is still desirable to use the cover member 29 by reason of the ornamentation which

75 it affords. When such a member is employed,

a chamber or recess should also be used and the mounting of the cup 37 in the bottom disc 46 of this box is illustrated.

While the cover member and bottom chamber have been illustrated as incorporated in boxes 80 of the cylindrical type, it will be quite evident that such features may also be incorporated in square or rectangular boxes with equally satisfactory results. In the latter boxes, it may be desirable to alter the shape of the handle member 85 29 as, for example, by making it in the form of a cube or other flat sided geometrical figure. In any of these constructions, the chamber in the bottom of the box should have an overall height and an overall diameter greater 90 than the corresponding dimensions of the cover member to make sure that there will be no difficulty in stacking the boxes. Also when a domed cover is employed, as in a box of the type shown in Fig. 1, the box should be so constructed that 95 the upper surface of the domed top does not project beyond the upper end of the box body when the cover is in place.

What I claim:

1. A box which comprises a body having a closed 100 bottom and an open top, a cover adapted to be engaged with the body to close the top, said body and cover being of paper board material, a member attached to and projecting above the cover to provide a handle for removing the cover, 105 and a metal cup mounted in the bottom of said box and extending into the box, said cup opening outwardly and being of a size sufficient to receive the handle member whereby a plurality of said boxes may be stacked one upon the 110 other.

2. A box which comprises a body having a closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide 115 means for removing the cover, and a cup mounted in an opening in the bottom of the box and extending into the body thereof, said cup being of sufficient size to receive said member.

3. A box which comprises a body having a 120 closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide means for removing the cover, and a metal cup mounted in an opening in the bottom of the 125 box and extending into the body thereof, said cup being of sufficient size to receive said member.

4. A box which comprises a body having a closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide means for removing the cover, and a cup mounted in an opening in the bottom of the box and 130 having a flange overlying the edge of said opening, said cup being of sufficient size to receive said member.

5. A box which comprises a body having a closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a 140 member projecting above the cover to provide means for removing the cover, and a cup mounted in an opening in the bottom of the box and extending into said body, said cup having a bead engaging the bottom at one side thereof adjacent 145 said opening and a flange overlying the edge of said opening at the other side of said bottom, said flange and bead serving to anchor the cup in place.

6. A box which comprises a body having a 150

closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide means for removing the cover, a cup mounted in an opening in the bottom of the box and extending into the body thereof, and means for anchoring the cup in position.

7. A box which comprises a body having a closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide means for removing the cover, a cup mounted in an opening in the bottom of the box and extending into the body thereof, and means on the cup for engaging the bottom to hold the cup in position.

8. A box which comprises a body having a closed bottom and an open top, a cover adapted to be engaged with the body to close the top, a member projecting above the cover to provide means for removing the cover, a cup mounted in an opening in the bottom of the box and extending into the body thereof, and means formed integrally with the cup for engaging the bottom to hold the cup in place therein.

9. In a box, a body having a side wall, an inner bottom wall at one end of the body and having an opening therethrough, an outer bottom at said end of the body having an opening therethrough registering with the opening in the inner bottom, and a cup mounted in the opening in the outer bottom and extending through the opening in the inner bottom into the body of the box.

10. In a box, a body having a side wall, an inner bottom wall at one end of the body and having an opening therethrough, an outer bottom at said end of the body having an opening therethrough registering with the opening in the inner bottom, and a cup mounted in the opening in the outer bottom and extending through the opening in the inner bottom into the body of the box, said inner and outer bottoms lying in face contact and being held together at least in part by adhesive between their contacting faces.

11. In a box, a body of tubular form made up of inner and outer tubular sections, said outer sections having an intumed end bead overlying the adjacent end of the inner section, a disc lying between the bead and said adjacent end of the inner section, said disc having a central opening, a second disc overlying the first and also

held between the bead and said adjacent end of the inner section, and a cup mounted in an opening in the second disc and extending through the opening in the first disc and into the body.

12. A box of the character described comprising, a tubular body portion and a bottom member, said body portion including an outer wall having its bottom edge rolled inwardly to form a bead and its upper edge turned inwardly and downwardly to form an abutment, and an inner wall having its upper edge rolled inwardly to form a bead, the inwardly turned upper edge of the outer wall terminating at a point adjacent said last named bead and serving to restrain the inner wall from being upwardly displaced.

13. A box of the character described comprising, a tubular body portion and a bottom member, said member including a bottom disc provided with an opening, and an inwardly projecting closure for said opening rigidly secured to said bottom disc.

14. A box of the character described comprising, a tubular body portion and a bottom member, said member including a bottom wall having an aperture therethrough, a bottom disc adapted to close said aperture and itself provided with an opening, and an inwardly projecting closure for said opening.

15. A box of the character described comprising, a tubular body portion and a bottom member, said member including a bottom wall having an aperture therethrough, a bottom disc having its periphery adjacent to the periphery of the bottom wall and being provided with an opening, and an inwardly projecting closure for said opening.

16. A box of the character described comprising, a body portion, a top and a bottom, said top having a rigid handle member projecting therefrom, and said bottom being provided with an opening and an inwardly disposed thimble in said opening, adapted to accommodate the handle member projecting from the top of a similar box stacked therebeneath.

17. A box of the character described comprising, a body portion, a top and a bottom, said top having a rigid handle member projecting therefrom, and said bottom being provided with an opening and an inwardly projecting closure for said opening rigidly secured to said bottom and adapted to receive the handle member on a similar box stacked therebeneath.

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