July 22, 1924. 1,502,013

E. P. BENOIS

ORNAMENTAL BOX

Filed April 28, 1923

Fig:1.

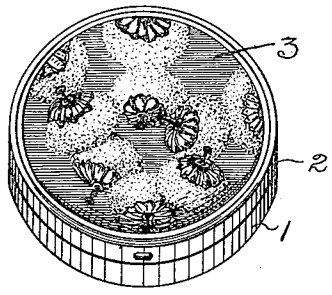



Fig:2.

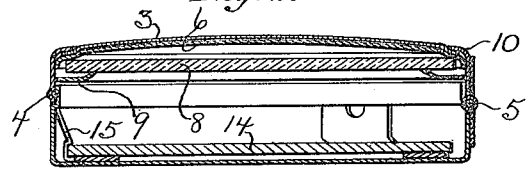



Fig:3.

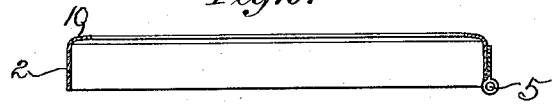



Fig:8.

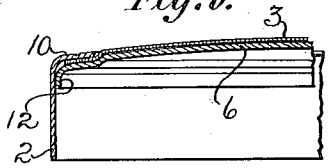



Fig:4.

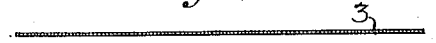



Fig:7.

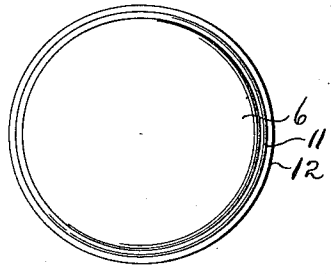



Fig:5.

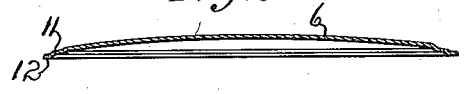
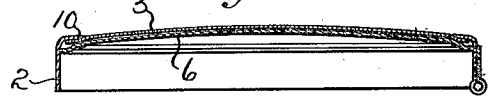



Fig:6.




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Patented July 22, 1924. 1,502,013

# UNITED STATES PATENT OFFICE.

EDOUARD P. BENOIS, OF PARIS, FRANCE, ASSIGNOR TO COTY, INC., OF NEW YORK, N. Y., A CORPORATION OF DELAWARE.

## ORNAMENTAL BOX.

Application filed April 28, 1923. Serial No. 635,195.

*To all whom it may concern:*

Be it known that I, EDOUARD P. BENOIS, a citizen of the Republic of France, residing at Paris, France, have invented certain new and useful Improvements in Ornamental Boxes, of which the following is a specification.

My invention relates to a new and improved ornamental box, and method of making same.

One of the objects of my invention is to provide a new and ornamental box made of any suitable metal, and which shall have an insert at the top thereof upon which a suitable trade mark, or if desired any suitable or ornamental design may be impressed.

Another object of my invention is to provide a new and ornamental box, the top of which is open, and improved means for firmly holding in position an insert made of paper or the like, upon which a trade mark can be impressed, so as to impart a distinctive and novel appearance to the box.

Another object of my invention is to secure into the above mentioned position a suitable insert bearing a suitable trade mark or design, which shall be firmly held in place by an expanded metal disc, so as to obviate the need for any soldering operation.

Another object of my invention is to provide a new and ornamental box of the kind above mentioned, which shall be particularly adapted for holding compacts of face powder.

Other objects of my invention will be set forth in the following description and drawings, which illustrate a preferred embodiment thereof.

Fig. 1 is a perspective view.

Fig. 2 is a sectional view.

Fig. 3 is a sectional view showing the top of the box.

Fig. 4 shows the ornamental insert.

Fig. 5 is a sectional view of the holding disc.

Fig. 6 shows the holding disc inserted into the open lid or cover of the box, as the first step in the operation of making the new improved box.

Fig. 7 is a top view of the holding disc.

Fig. 8 is a persepective view showing the final shape and position of the holding disc after the box has been finally completed.

The box 1 is made of any suitable metal and it has a lid or cover 2 suitably secured thereto by any suitable hinge 5.

These and other details of my invention, which in themselves are old and well known, and form no part of my invention, will only be conventionally illustrated.

As clearly shown in Fig. 3, the cover 2 has a central opening at the top thereof, and the upper edge thereof is provided with a rim 10 of the configuration shown in Fig. 3. This rim 10 has a tapering shape, and is slightly arcuate. A circular disc 3, made of any suitable paper or the like, is provided with a trade mark for example, as illustrated in the specific embodiment herein disclosed, and this disc 3, when firmly held in position, lends a novel and distinctive appearance to the box and cheapens the cost of construction thereof, if it is desired to impart an ornamental appearance to the box, or to provide it with a trade mark. A holding disc 6 made of any suitable metal, such as brass, and as shown in Fig. 5, is provided for holding the paper disc 3 in position. The central part of this disc 6 has a general convex shape and the disc 6 is provided with a peripheral portion 12, which is separated from the central convex portion of the disc, by a convex shoulder 11, so that two beads or indentations are formed at the outer part of the disc 6, as clearly shown in Fig. 5. In the first stage of the assembly of the parts, and as illustrated in Fig. 6, the disc 6 is forced into position in the opening of the lid 2 without any substantial pressure so that the convex central portion of the disc 6 projects through the opening of the lid 2, and above the rim 10 thereof. The disc 6 is then firmly held in position by means of any suitable punch or tool which has the shape and dimensions of the central convex portion thereof, so that the peripheral portion of the said disc 6 is free to be acted upon by any suitable rolling or swedging tool. The peripheral portion of the disc 6 is then rolled and

swedged as shown in Fig. 8, so that this peripheral portion, by reason of the rolling and swedging, becomes harder and is expanded so that it fits very tightly against the wall of the lid 2, and holds against it as tightly as though it had been soldered thereto and secured in any suitable manner. The disc 6 when it is finally shaped, has a central convex portion which corresponds in dimensions to the opening in the lid 2 and at the edge thereof it is provided with a downwardly flared portion, which merges into another flared portion, and then into a final curved portion.

By this method the paper disc 3 is thus firmly locked into position without any substantial creeping of the paper which would cause the tearing thereof.

After the paper disc 3 has been locked into position, the mirror 8 can be secured in position by any suitable ring 9 and the lid can be locked by any suitable latch 4.

An aluminum disc 14 can be held in the bottom 1 of the box by means of a spring clamp 15 having the form shown in Fig. 2.

The powder compact can be connected to the aluminum disc 14 without any glue or the like by the following method:

The aluminum disc 14 is preferably provided with a series of perforations, or, if desired, with a series of projecting points or parts.

In order to make a powder compact, the perfumed face powder is moistened with alcohol so as to form a paste. This paste, into which a suitable binder is incorporated, is then molded into little cakes or compacts and the compacts are slowly dried under proper conditions so as to prevent any injury to the perfume. It has heretofore been customary, after the powder compact has set or hardened to paste it to a suitable disc at the bottom thereof so that it can be readily handled. By providing the aluminum disc 14 with suitable perforations or projecting parts, and pressing the compact against it while it is still in the plastic condition, so as to imbed the disc in the compact, a very firm union of the compact and of the aluminum disc 14 is secured and it has been found by practical experience that when the perfumed face powder is allowed to set or harden that it retains its firm hold upon the aluminum disc 14, so that the need for glue is obviated. This produces not only an economy in cost of manufacture but renders it possible to lessen the manipulation of the perfumed powder and the possibility of injury to the perfume.

By connecting the perfumed powder to an aluminum disc, it has been discovered that injury to the perfume is prevented. It has heretofore been considered that perfumed powders should be kept out of contact with all metals save, perhaps, gold or platinum, which do not oxidize, but it has been discovered that aluminum does not injure the perfume.

By choosing a suitable binder for the compact and by reason of the fact that a firm base is provided therefor, the compact does not crumble or break at any time, so that no part thereof comes into contact with an objectionable metal.

The clamp 15 may be made of aluminum if desired and the box 1 may be made of brass or any other suitable material which can be brightly polished or decorated.

I have shown a preferred embodiment of my invention, but it is clear that numerous changes and omissions could be made without departing from its spirit and I do not wish to be limited to the details before mentioned.

I claim:—

1. A method of attaching an insert to a metal box so as to fill up an opening in said box which consists in holding said insert in position in the said opening by means of a holding metal disc having a contour corresponding to the contour of the portion of said box adjacent said opening and then expanding the said disc so as to cause it to firmly grip the portion of said box adjacent said opening.

2. A method according to claim 1 in which a portion of the said holding disc is caused to project through the opening in the said box before the said holding disc is expanded.

3. A method according to claim 1 in which the said holding disc is expanded by rolling its periphery so as to harden it and reduce its thickness.

4. A method of attaching an insert to a metal box so as to fill up an opening therein which consists in holding the said insert in position by means of a metal holding disc having its periphery separated from the central portion thereof by an intermediate convex portion so as to form a plurality of beads between the said periphery and the said central portion of the said holding disc, one of said beads being caused to be directly adjacent that portion of the said box directly adjacent the said opening, and then expanding that portion of the said holding metal disc which is outside of the said bead so as to cause it to snugly fit against and firmly hold the adjacent wall of the box.

5. A method according to claim 4 in which the said disc is expanded so that the said portion of the said holding disc outside of the said bead has a flaring contour terminating in a downwardly inclined arcuate portion.

6. A box having an opening, an insert fitting in and covering the said opening and an expanded metal disc directly adjacent the said insert and fitting snugly against and firmly holding the adjacent wall of the box.

7. A box having an opening, an insert fitting in and covering the said opening, a holding metal disc having a central portion of a convex contour and which projects through the said opening, the said metal disc having an expanded and swedged peripheral portion which snugly fits against and holds the adjacent wall of the said box.

8. A box according to claim 7 in which the said central convex portion of the said holding disc has a downwardly flaring portion adjacent thereto and this has a downwardly flaring portion merging into a downwardly inclined end portion.

In testimony whereof I hereunto affix my signature.

EDOUARD P. BENOIS.