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BOX OR RECEPTACLE FOR POWDERS

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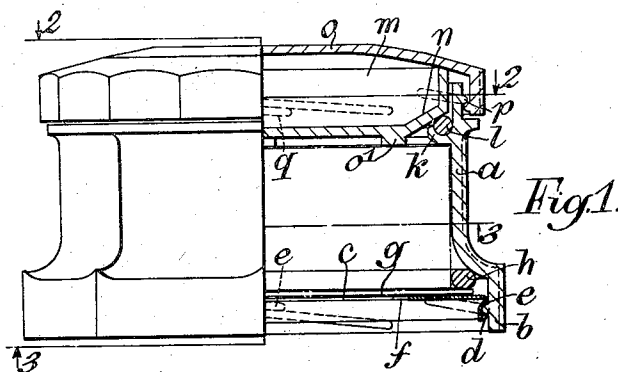
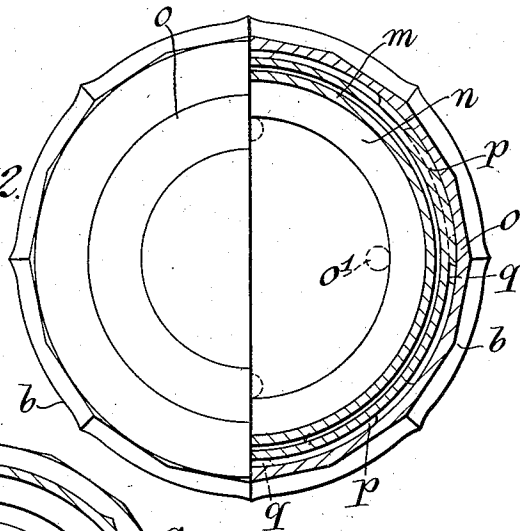
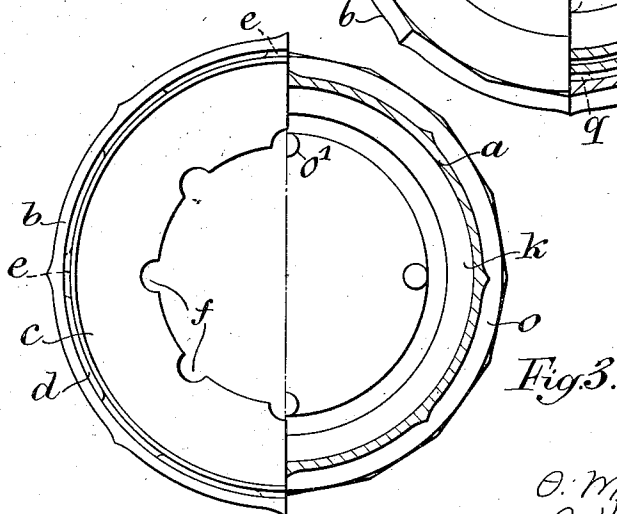


Fig. 2.



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BOX OR RECEPTACLE FOR POWDERS

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Keith-Thomas, Ealing, EnglandApplication February 20, 1934, Serial No. 712,208
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4 Claims. (Cl. 132—82)

This invention relates to boxes or receptacles for toilet or the like powders and refers to those in which the powder is removed by the use of a powder puff.

One object of the invention hereinafter described is to so construct the powder box as to obviate any necessity of transferring the powder from the carton or container in which it is supplied by the manufacturer or in which it is purchased, to the powder box or receptacle *per se*.

Another object of the invention is an improved construction of powder box which shall be airtight and proof against any escape of powder with or without the use of an improved form of lid or cover.

A further object of the invention is a powder box so constructed as to eliminate any spilling of the powder while removing the powder-impregnated puff for application to the person, and again upon returning the puff to the box or receptacle.

A further feature of the powder box provides for a sealed compartment containing a powder puff, and if desired one or more other toilet articles that may be quickly exposed for use by the removal of a quick securing lid with which the box is fitted.

The invention consists in an improved powder box or receptacle comprising a casing into which the powder containing carton as purchased, may be bodily installed or inserted through the bottom of the box, which may then if desired be closed by a quickly detachable cover.

The invention also consists in an improved powder box or receptacle comprising two sealed compartments arranged one above the other, the lower containing a powder containing carton and the upper being fitted with a loose tray adapted to be held and sealed in position by a quickly detachable cover or lid.

The invention will now be described with reference to the accompanying drawing which illustrates by way of example one form of powder box constructed according to the invention, and in which:—

Figure 1 is an elevation partly in section of the complete box,

Figure 2 is a plan view partly in section taken on the line 2—2 of Figure 1, and

Figure 3 is a reverse plan view of Figure 1 with part of the box in section as taken on the line 3—3 of Figure 1.

In carrying the invention into effect the box comprises a body portion *a* the interior of which is preferably cylindrical, but the outer surface of

which may be made of any desired shape so as to present any shape or fashion desired. Such interior surface may, however, be square, hexagonal, oval, or otherwise. Towards its lower end the box is flanged outwards as at *b*, and within the internal surface of the base *b* there may be formed one or more short helical ribs to provide for the quick detachment or replacement of a bottom closing member *c*. Such closing member may be of metal, celluloid or other material, and is formed with ribs to correspond with the helical ribs provided within the base *b*. These ribs are indicated at *d*, whilst those on the bottom *c* are indicated at *e*. Such an arrangement forms a quickly attached bottom to close in the base. To facilitate the short circular movement it has to receive in order to secure the helical ribs together, the cover or bottom *c* is in the shape of a ring on the inside curvature of which there are provided recesses such as *f*, or conversely, projections may be provided to effect the locking of the cover in position. The powder containing carton shown in dotted lines has a bottom flange *g* and this rests upon the ring-like bottom *c*. Above the flange *g* there is a pliable sealing ring *h* which may be made of rubber, leather or other suitable material. Such a ring is designed to be nested adjacent to the upper portion of the base *b* where it merges back into the main body portion *a* of the box, and when the cover *c* is being secured in position the sealing ring *h* is designed to be caught between the flange *g* and the bottom of the base *b*, so that there can be no escape of powder at the bottom of the box.

It will be understood that the diameter of the body part *a* will be such as to take the carton of powder as it is purchased, and that this will be bodily slipped into the bottom of the box and the sealing ring afterwards applied so that when the bottom cover *c* is fastened in position the carton will be firmly secured in position, and at the same time a seal will be effected by the ring *h*. Towards the upper end of the body part *a* there is provided an inwardly extending flange *k*, which is designed to constitute a pocket receiving a second sealing ring *l* which may be of a material similar to that of which *h* is formed.

There is arranged above the powder carton a tray *m* which is adapted to hold a powder puff, or one or more other toilet articles, and the lower part of the tray is preferably of the shallow conical form as indicated at *n*, and such shallow part is adapted to press upon the sealing ring *l*. The arrangement is such that the upper edge of the tray is normally positioned slightly above the top

edge of the case *a* in order that when the closing lid *o* to the powder box is secured in position such lid will press upon the upper edge of the tray and force it down upon the sealing ring *l* so as to again constitute a second form of seal to prevent the escape of powder. Any convenient means for securing the lid *o* may be adopted, and by way of example, the form or fastening shown is similar to that provided at the bottom of the box, that is to say, short helical ribs *p* and *q* respectively are formed on the lid and upon the exterior of the body part of the case or box, so that a short rotational movement will quickly secure the two parts together.

In this way the powder box contains two sealed compartments, one of which contains the powder containing carton whilst the other is provided with a tray which automatically is sealed in position with the closing of the lid of the box.

In a modification the lower sealing ring *h* may be so arranged that its internal diameter will be less than the external diameter of the carton, and in this way a further sealing effect may be secured, which will also have the additional advantage that where there is any likelihood of slight variations in size of cartons such varying sizes will be accommodated by the flexible ring *h*.

It is to be understood that in a further modification the diameter of the body part *a* may be such that it forms a tight working fit to receive the carton, so that if necessary the lower sealing ring may be dispensed with, the close fitting of the carton in this case constituting the seal.

Any suitable form of fastening other than that above described may be used, for example, a hinged cover may be used which may be caused to snap tightly in position, or any other form of quickly detachable fastening may be used.

The upper part of the tray *m* is, or may be, fitted with a mirror whilst the lower surface may be provided with one or more feet such as *o'* and/or hooks for the purpose of supporting and/or hanging the mirror. The feet *o'* may also be used as an implement for turning the bottom ring *c* by engagement with the recesses *f*.

Alternatively the tray may take the form of a flat or approximately flat circular disc of suitable material arranged to have an easy clearance fit within the inside wall of the body of the box, and with such type of tray a lid with a quick snap or hinged fixing having an internal flange or wall projecting downward sufficiently to engage by its bottom edge in contact to the top face of the tray, and thus automatically press the tray upon the upper sealing ring *l*, thus forming an air-tight and powder proof compartment when secured. Or, the tray as shown in the drawing may have its vertical wall extending over the top of the box wall and terminating on the outside of the wall sufficiently below the top to form a quick snap or hinged fixing.

The lid and such parts of the powder box may

be constructed of any material and, for example, may be of pressed, stamped, turned or spun metal, turned woods, ivory and the like suitable materials, and preferably of such design and shape that it may be moulded and stamped when being manufactured. It will be seen from the above construction that a powder box is obtained which may be transported from place to place in safety, that is to say, it will be both air proof and powder proof, and also that a new powder containing carton may be inserted therein without there being any necessity to pour out the powder, and that when the appliance is in use there will be no dropping of powder when the puff is being removed from the tray or being replaced therein.

Having now described our invention, what we claim as new and desire to secure by Letters Patent is:—

1. An improved powder box comprising in combination two compartments arranged one above the other, the lower compartment being adapted to receive a carton, a loose tray fitted in the upper compartment, a cover for the top of the casing and sealing means operated by such cover when placed in position, a closing member for the bottom compartment adapted to operate sealing means for the lower part of the carton.

2. An improved powder box comprising in combination a casing having two compartments the lower compartment adapted to receive a carton, sealing means above the upper edge of the lower compartment, a loose tray mounted in the upper compartment and seating upon the sealing means, a cover for the top of the casing adapted to press upon the tray to seal it in position, sealing means for securing the carton at its lower edge and a member for closing in the bottom of the casing and seating upon the seal for the lower part of the carton.

3. An improved powder box as claimed in claim 2 in which the sealing ring at the bottom of the casing is internally somewhat smaller than the internal diameter of the box so that the sealing ring will always exercise a circumferential grip upon the carton to thus allow for small variations in the size of the later.

4. An improved powder box comprising in combination an internal circular casing, a flange within the upper part thereof, a packing ring mounted on the flange, a tray for containing a puff within the upper part of the casing and having its upper edge projecting beyond that of the casing, a cover or lid to the casing for pressing the tray down upon the sealing ring, an enlarged base to the casing, a sealing ring within the casing and mounted within the enlarged base, and a locking plate detachably secured to the base closing in the bottom of the casing and engaging with the sealing ring within the enlargement.

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