M. W. SCHLOSS.

DISPENSING APPLIANCE.

APPLICATION FILED DEC. 27, 1910.

1,056,457. Patented Mar. 18, 1913.

Fig. 1.

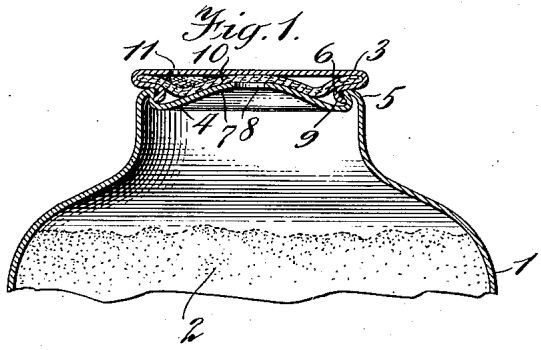

Fig. 2.

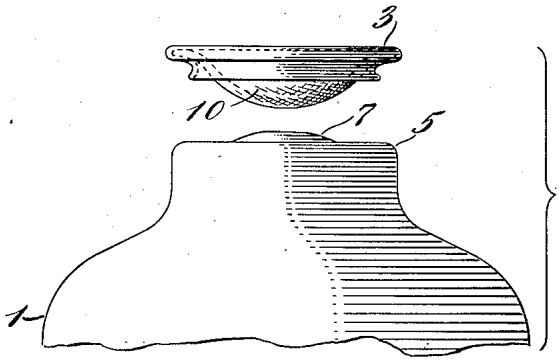

Fig. 3.

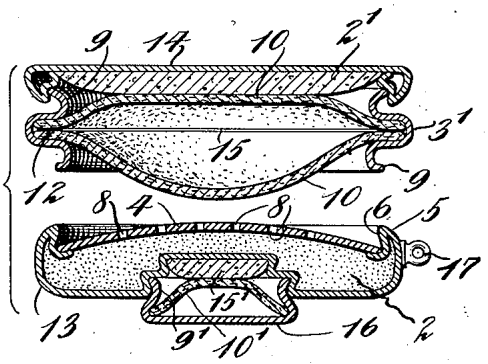

Fig. 4.

Witnesses:

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DISPENSING APPLIANCE.

1,056,457. Specification of Letters Patent. Patented Mar. 18, 1913.

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To all whom it may concern:

Be it known that I, MEYER W. SCHLOSS, a citizen of the United States, residing at New York city, in the borough of Manhattan and State of New York, have invented certain new and useful Improvements in Dispensing Appliances, of which the following is a full, clear, and exact description.

This invention relates to dispensing receptacles, such for example, as powder boxes, blacking bottles, paste tubes, and the like, and has for its object the provision of a new and improved cover or stopper for such receptacles, by the use of which the necessity for providing auxiliary brushes, pads, puffs, and the like, is dispensed with; the brush, pad or like part being united to the cover to form a unitary structure. Further, the device is so arranged that the brush, pad, or like part is always immediately available for use as soon as the cover or stopper is removed from the receptacle; the cover forming a handle for the brush or like part.

Another object of my invention is to so form the dispensing receptacle, and its coacting parts, that the brush or pad need not extend into the receptacle when the cover is applied thereto; thereby permitting of the said receptacle being properly filled, and also allowing the user to shake or otherwise deposit the proper amount of powder, fluid or like material, desired upon said brush or pad before the cover is removed from the receptacle.

These and other objects of my invention will be hereinafter referred to and more particularly set forth in the claims appended hereto.

In the drawings which form a part hereof: Figure 1 is a section of the mouth of a receptacle with its cover and brush in position thereover, the bottom of the receptacle being broken away. Fig. 2 is an elevation of the receptacle mouth and cover, the cover being wholly removed from said mouth. Fig. 3 is a preferred type of appliance for dispensing a plurality of materials. Fig. 4 is a perspective view of the device shown in Fig. 3, drawn approximately to scale.

Referring to said drawings in which like reference characters designate like parts in the respective views; a box or receptacle adapted to be filled with talcum powder 2, or the like, is closed by means of a cover or cap 3 which may be secured thereto by any suitable means. In the exemplification herein shown the receptacle is covered with a perforated diaphragm 4 which may if desired be integrally united with the walls of the receptacle. I prefer to form the receptacle of sheet material and to bend or fold the same at the head of the receptacle, in the manner shown, to form the flange 5. The inner and preferably annular wall of this flange is slightly undercut as at 6, and the mouth forming portion of the diaphragm is preferably, although not necessarily, coned upwardly as at 7, and should have at least one aperture 8 therein. The receptacle may, of course, be formed of flexible sheet material if desired.

The cap or cover is preferably of molded, drawn or spun sheet material and the mouth thereof may be laterally flanged or beaded as at 9; the flange or bead being of sufficient diameter to very snugly engage the inner wall 6 of the receptacle flange 5; being in fact adapted to be sprung or snapped into engagement therewith by reason of the resiliency of the more or less elastic sheet material of which either the cap or receptacle, or preferably both are composed. Within the recess in the cap is the brush 10, preferably of highly elastic material such as soft rubber-sponge, hair cloth or the like. Such substances are particularly well adapted for the purpose in question on account of their cellular nature by reason of which the surface of the brush exposed to the material to be dispensed is adapted to collect and hold a relatively considerable quantity of such material. Rubber-sponge of the kind in question, for example, is further so elastic that it may be held compressed in the cap for a reasonably long period without materially impairing its elasticity.

The flange or bead 9 besides serving to engage the annular wall 6 and to thereby retain the cover in place on the receptacle, further serves to prevent the cap or cover from injuring the skin or the fabric when the brush is in use, presenting a flat surface which cannot cut or abrade. Further, the edge of this flange is covered by the flange 5, so that should the surface thereof become coated with paste or the like, when dispensing such material, said surface is inclosed or covered when the cover is upon the receptacle and hence cannot smear a garment or fabric with such paste.

In operation the brush normally protrudes out of the recess in the cover as shown in Fig. 2, but when said cover is applied to its receptacle the brush is compressed or distorted and is driven back into said cover as shown in Fig. 1. The exposed portion of the brush is adapted to hold considerable powder, rouge, blacking or the like, by reason of its cellular surface. By making said brush of sheet material or molding it into sheet form several advantages accure. First a substantial saving of material is effected. Second, the device can be made lighter. Third, the cap can be made more shallow. Fourth, the sheet material, if of suitable substance, such for example as the sponge rubber above referred to, may be made to efficiently close the mouth of the receptacle, which is of value when the latter is intended to hold liquids. A vent 11 may be provided in the cover to freely admit air back of the resilient dish-shaped brush, if desired.

In Fig. 3 a triple receptacle is shown in one part of which the cap with its brush or brushes is disposed intermediate the chambers adapted for the reception of a plurality of materials to be dispensed. The large cap herein is formed of a ring 3′ preferably grooved as at 12 for the reception of the edges of the brush or brushes 10. The brushes in this embodiment of my invention have been shown as of the dished-sheet type, although obviously many other types of brush are adapted for use in connection with this form of device. The lower receptacle 13 may contain face or talcum powder 2, and the upper 14, may hold a pad of face rouge 2′, or the like. The edges of the cap or frame 3′ may be beaded as at 9 and the respective receptacles may be flanged for engagement therewith as in the foregoing. Of course any suitable means for locking the cap and receptacle together may be used, but I prefer those herein shown for reasons above set forth. The respective brush disks, if of suitable material, may be cemented together as at 15 to make them air tight if desired. In this form of my device, it will be noticed that the perforated diaphragm 4 is separate from and is merely sprung into place in the receptacle 13, while receptacle 14 has simply a pad therein of rouge, paste, or the like and needs no diaphragm. The means employed for connecting the cover and receptacles in this instance is also of value in that it permits of relative angular or rotary movement between such parts before they are separated, whereby the face of a brush may more readily be made to collect a considerable quantity of powder, rouge, or the like, from the pad or other device with which it is adapted to contact; and the resiliency of the brush and mode of mounting the same permit it to press firmly against the material to be dispensed and hence facilitates collection of such material. The outer wall of receptacle 13 is further recessed as shown to form a third receptacle, and this may be of less size or diameter than the others. In the present embodiment of my invention the annular wall of this recess is stepped, the walls of each of the steps being undercut as shown, so that the bottom of the recess is adapted to firmly hold in place a quantity of lip rouge 15′ or the like, and the outermost step is adapted for engagement with the bead 9′ of the small cap or cover 16. This cap has therein a brush 10′ of the type in question which is mounted to protrude out of the mouth of the cover 16 when the latter is removed from its receptacle. Brush 10′, if intended to dispense lip rouge or the like may be made smaller than brushes 10.

The entire device is adapted to be suspended from a chain or the like, a suspending ring 17 being provided for this purpose.

Fig. 4 shows the device drawn approximately to scale and it will be seen therefrom that I have provided a structure which is exceedingly compact and which may be made of attractive appearance, while providing means for dispensing a plurality of different materials.

By the term "brush", as used in the claims appended hereto, is meant any device which is adapted for use in applying paint, powder, paste or the like, in the manner described. Such device may be a powder puff, blacking sponge, mucilage dauber or brush, or any other suitable device of this character which is adapted to collect a certain amount of material from the receptacle in connection with which it is used, and to retain such material within its mass, or upon its surface, ready for application to the article to which it is to be applied. Finally, it is frequently desirable to supply material to be dispensed in the form of a cake, paste or other relatively fixed and more or less solid mass and herewith my novel brush is of especial value in that its surface may be adapted to bear resiliently against the surface of the cake or mass of paste and to hence collect and purvey the same in proper manner; the brush of course being driven back, more or less, into its cover by reason of its contact with such mass of material.

Having described my invention, what I claim, is:

1. A dispensing appliance comprising a receptacle, a recessed cover therefor, a yielding brush of substantially non-pervious sheet material mounted in the recess in said cover to normally protrude out of the mouth thereof, said brush adapted to be compressed into said cover when the latter is applied to the mouth of the receptacle and

to automatically emerge from the cover upon the removal of the latter from said receptacle, said brush efficiently closing the mouth of the receptacle when applied thereto.

2. A dispensing appliance comprising receptacles adapted to hold different substances, a frame, yielding material adapted to be used as a brush mounted in said frame to normally protrude out of the same at different portions, the exposed surfaces of such portions being separated by portions of the frame, said exposed surfaces of said yielding material being adapted to collect said substances from said receptacles.

3. A dispensing appliance comprising two adjacent receptacles, a frame disposed between said receptacles, and a brush attached to said frame and interposed therewith between said adjacent receptacles to effectively prevent passage of material to be dispensed from one receptacle to the other.

4. A dispensing appliance comprising a receptacle, a cake of material to be dispensed disposed in said receptacle, a recessed cover for said receptacle, and a brush mounted in the recess in said cover to normally protrude out of the mouth thereof, said brush adapted for contact with said cake of material, portions of said brush being driven back thereby into said cover when the latter is applied to the mouth of the receptacle.

5. A dispensing appliance comprising receptacles adapted to hold different substances, a frame, yielding material adapted to be used as a brush mounted in said frame to normally protrude out of the same at different portions, the exposed surfaces of such portions being separated by portions of the frame, said exposed surfaces of said brush being adapted to collect said substances from said receptacles, said yielding material and said frame separating the respective receptacles from one another.

In witness whereof, I subscribe my signature, in the presence of two witnesses.

MEYER W. SCHLOSS.

Witnesses:
WALDO M. CHAPIN,
WILLIAM C. LANG.