Aug. 17, 1943. A. E. CULLEN 2,326,839

CYLINDRICAL POWDER CONTAINER

Filed Dec. 21, 1940

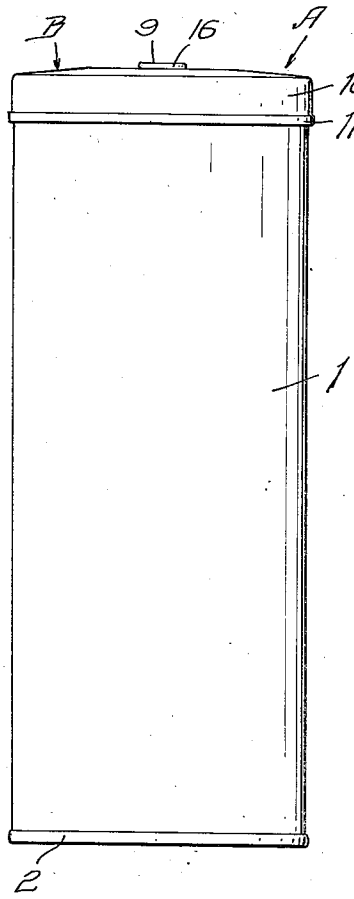


Fig. 1.

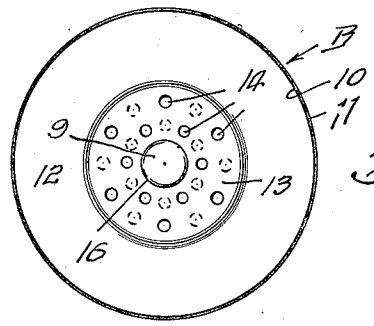


Fig. 2.

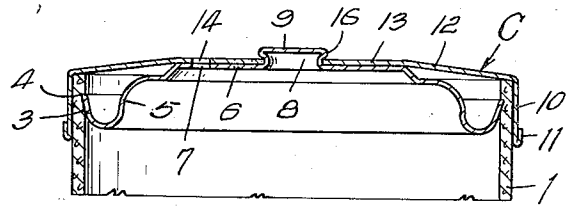


Fig. 3.

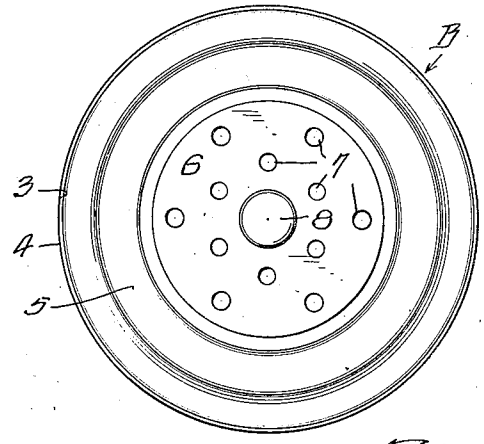


Fig. 4.

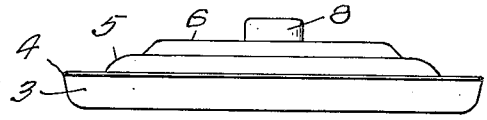


Fig. 5.

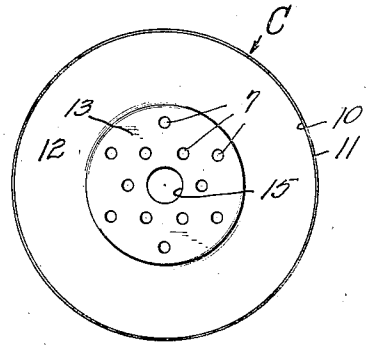


Fig. 6.

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CYLINDRICAL POWDER CONTAINER

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Application December 21, 1940, Serial No. 371,173

3 Claims. (Cl. 221—64)

This invention relates to powder containers for holding talcum, or other powder, especially for the retail trade, and, more particularly, to a combination top closure structure for paper bodied containers having a bottom end closure of sheet metal, or other suitable material.

An object of the present invention resides in the provision of a simple comparatively inexpensive and efficient top closure structure as an improvement on the invention set forth in U. S. Letters Patent #2,155,022, issued April 18, 1939, entitled "Slip covers for paper bodied containers."

Another object of the invention concerns the provision of a combination top closure for paper bodied containers comprising two parts formed from suitable material, so shaped and assembled as to be handled as a unit, in order that it may be easily and quickly positioned as a top closure in, on, and around the top end of a paper container body, after the container body has been filled with talcum, or other powder, and without the aid or use of tools and special machinery.

A further object of the invention resides in so forming the two parts of the combination top closure and in assembling them in such manner, that after being positioned in, on, and around the top end of a paper container body, the part on and around the container body can be rotated relative to the other part and the container body to such a position, that contents can be dispensed therefrom through registering openings.

A further object of the invention resides in the provision of a combination two piece top closure, which is particularly adapted for use in connection with the cylindrical type of paper container body.

A still further object of the invention resides in the provision of a combination two piece top closure which will be comparatively inexpensive in cost of manufacture.

With the above and other objects and advantages in view, the invention consists in the novel features of construction, shape, arrangement, combination and assembly of parts as hereinafter more fully described and claimed.

Referring to the drawing, wherein like characters of reference denote similar parts throughout the several views:

Fig. 1 is a side elevation of a container embodying the features of my invention.

Fig. 2 is a top plan view of the container.

Fig. 3 is an enlarged vertical sectional view of the combination top closure in position within, on, and around the upper end portion of a paper container body.

Fig. 4 shows an enlarged top elevation of the lower member of the combination top closure before being assembled with the upper member.

Fig. 5 is an enlarged side elevation of the lower member of the combination top closure.

Fig. 6 shows a top elevation of the upper member of the combination top closure before being assembled with the lower member.

In the drawing, a combination top closure designated generally as A, is constructed in accordance with this invention and shown in connection with a container body 1, which is closed at its lower end by a suitable closure head 2 of sheet metal, or other suitable material.

Referring to the drawing in detail, the body 1 of the container to which the closure is manually positioned, is made of paper, or other suitable fibrous material and having a straight wall body within, on, and around which the closure is positioned without the aid of tools, or special machinery, after the container body is filled with powder, such for instance, as talcum or other powder.

The body 1 of the container, as shown, is made cylindrical for the reason that when the combination top closure is forced into position, one part of the top closure, which is a two piece structure, is rotatable with relation to the other part and the container body, so as to register two sets of dispensing openings for the discharge of contents from the container.

In the construction illustrated, the numeral B designates, generally, the inner member, or part of the top closure, and C designates, generally, the outer member or part of the top closure.

The inner member B is in the form of a sheet metal stamping having an upwardly and outwardly projecting marginal flange 3, the free raw edge 4 of which will be compelled to engage and embed itself in the inner face of the paper material comprising the wall body 1 of the container when the slip cover is forced into position so as to become anchored or stationary with relation to the body 1.

Where the flange skirt 3 joins the remainder of the body portion, designated 5, of the inner member B, it is suitably shaped to provide a smooth outer surface and from this point the body portion 5 converges toward a substantially flat horizontal central body portion 6 having a plurality of suitably arranged powder dispensing,

or discharge openings 7. The central body portion 5 can, if desired, be slightly curved outwardly. The body portion 5 of inner member B of the top closure is initially provided with an upright cylindrical neck 8 having a closed upper end 9, as shown in Fig. 5, the reason for which will be explained and fully apparent hereinafter.

Cooperating with the inner member B, is an outer top closure member C of sheet metal, or other suitable material, having a marginal depending skirt, or flange 10, which can have its lower edge portion folded outwardly and back upon itself to provide a bead 11 serving both as an ornamental bead and reinforcement for the free edge of the skirt 10. The skirt 10 closely fits and surrounds the upper end portion of the container body 1. The outer member C is of greater diameter than the diameter of the inner member B, thus providing an annular gap, or space between the flange 3 on the inner member B and the skirt 10 on the outer member C to receive the wall of the container body 1, when the top closure is forced into position at one end of the container body, as shown in Fig. 3.

The body portion designated 12, of the outer member C, is suitably shaped and a central portion 13 thereof is shaped to conform or correspond with the central body portion 6 of the inner member B, and, the portion 13 is adapted to overlie and closely fit upon the body portion 6 of the inner member B when the two top closure members are assembled. The body portion 13 of member C is provided with a plurality of suitably arranged powder dispensing, or discharge openings 14 adapted for selected register with the powder discharge openings 7 in the inner member B.

The outer member C has a central opening 15 formed in the central body portion 13 through which the cylindrical neck 8, which is integral with body portion 6 of the inner member B, passes upwardly a suitable distance. The wall of the neck 8 is suitably deformed, such as by crimping a portion thereof together immediately above that portion of the body portion 13 of the inner member B immediately surrounding the edge of the opening 15 therein so as to provide an exterior annular bead 16 to hold the central body portion 13 of the outer member C in close but rotatable engagement upon the body portion 6 of the inner member B.

In the above arrangement, the deformed cylindrical neck 8 serves as a pivot member integral with the inner member B, and permits the outer cover member C of the top closure to be rotated upon the inner closure head member B and around the body 1 after the combination top closure has been applied to the end of a cylindrical paper container body 1, as shown in Fig. 3, so as to cause the dispensing openings 14 in the outer member C to be moved into and out of register with the dispensing openings 7 in inner member B, as desired.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which it appertains.

From the foregoing description, it is evident that a simple device for this purpose has been disclosed, but it is to be understood that I do not desire to restrict, or limit myself to the very details of the construction shown and described, which is merely illustrative, it being obvious that changes, not involving the exercise of invention may be made without conflicting or departing from the spirit of the invention within the scope of the appended claims.

What I claim is:

1. A top end closure head for a paper container body comprising an inner closure head member having dispensing openings and an inverted inclined skirt flange, an outer closure head member of greater diameter than the inner closure head member having dispensing openings therethrough, said inner closure head member having an integrally formed centrally located tubular neck provided with a closed outer end projecting through the central opening in the outer closure head member, the wall of said tubular neck being deformed to reduce the height of the tubular neck after passing the central opening in the outer closure head member to provide a head to prevent separation of the two closure head members and to allow rotation of the outer closure head member relative to the inner closure head member when positioned on the end of the container body.

2. A top closure as defined in claim 1 wherein the free outer edge of the inverted inclined side wall is adapted to bite into the container body material to hold the inner closure head member against outward displacement within the container body, and the outer closure head member having a marginal skirt surrounding the upper end portion of the container body and in rotary slipping engagement therewith.

3. In combination with a two piece top closure head for a paper container body wherein the outer piece is provided with a depending skirt flange and the inner piece with an inverted inclined skirt flange spaced from each other to provide a receiving gap for the side wall of the container body, of a centrally located tubular neck like member having a closed outer end projecting outwardly from the inner piece of the two piece closure head and adapted to have its side wall deformed to provide a head therefor to prevent separation of the two pieces, and the said two pieces of the closure head each having powder dispensing openings surrounding the tubular neck like member and with the openings in the outer piece of the closure head adapted for selective register with the dispensing openings in the inner piece of the closure head by rotation of the outer piece relative to the inner piece.

ARTHUR E. CULLEN.