

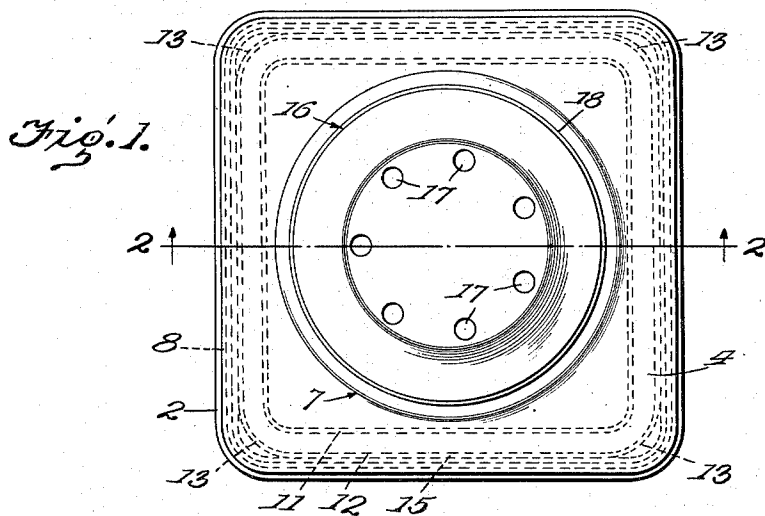
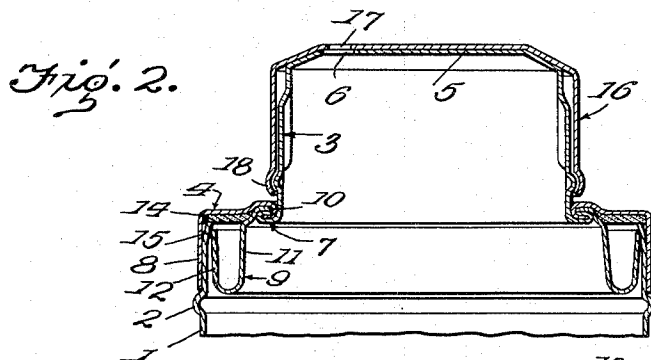
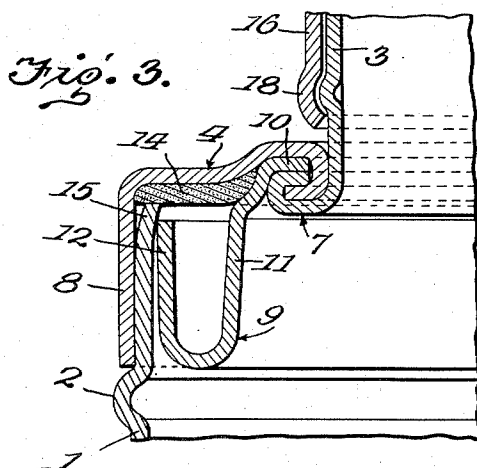
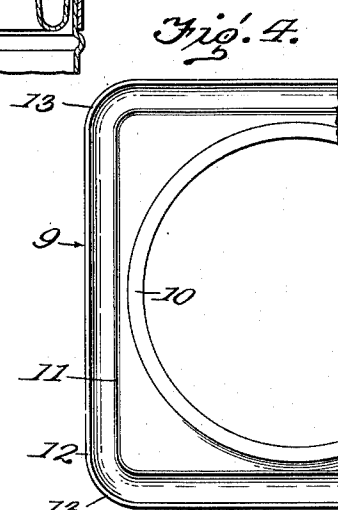
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DISPENSING CONTAINER FOR POWDERED MATERIALS

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DISPENSING CONTAINER FOR POWDERED MATERIALS

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2 Claims. (Cl. 222-542)

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The invention relates to a new and useful improvement in a dispensing container for powdered materials. It is a common practice to attach a closure end having a perforated nozzle to the body portion of a metal container by an outside skirt which makes frictional contact with the upper end of the body portion. When the can body is of general rectangular shape with rounded corners, the flat sides of the body wall often spring inwardly away from the depending skirt of the closure end with a resulting leakage of powder.

This is particularly true in containers of relatively large capacity, where the flat side walls are of considerable width.

An object of the present invention is to provide a container of the above type with a reinforcing member which is attached to the closure end as a unit and which carries an upwardly extending member adapted to engage the inner upper edge portion of the body wall so as to prevent it from springing inwardly away from the depending skirt.

A further object of the invention is to provide a container of the above type with a fiber gasket disposed within the skirted portion of the closure end so as to be contacted by the upper edge of the body wall which gasket is clamped to the closure end by the reinforcing member.

In the drawings:

Figure 1 is a top plan view of a powder dispensing container embodying the improvements;

Figure 2 is a sectional view on the line 2-2 of Figure 1;

Figure 3 is an enlarged section of a portion of the upper end of the body wall, the lower portion of the closure end, the reinforcing ring and the fiber gasket, and showing the arrangement of the parts when the closure end is attached to the body; and

Figure 4 is a plan view of a portion of the reinforcing ring.

The improved powder dispensing container includes a body having flat sides and rounded corners. It also includes a perforated closure end formed with a nozzle section and a skirted section which are joined by an interfolded seam. The skirt of the skirted section is shaped so as to have flat portions and rounded corners conforming to the shape of the body of the container and this skirt portion makes frictional contact with the outer upper portion of the body wall. Within the skirted portion of the closure end is a reinforcing metal member provided with a retaining part extending into the interfolded

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seam. This reinforcing member also has a depending portion and an upwardly extending portion which upwardly extending portion is so shaped and dimensioned as to engage the inner end of the body wall all along the flat sides thereof and thus prevent the body wall from springing away from the depending skirt. Within the skirted portion of the closure end is a fiber gasket which extends over the end of the body wall so that the body wall will make tight sealing engagement with the gasket. This gasket is retained as a unit with the closure end. Attached to the nozzle section is a cap which may be rotated to bring the perforations therein into alignment with the perforations in the upper closed end of the nozzle when it is desired to dispense powder.

Referring more in detail to the drawings, the dispensing container includes a body portion 1 which is of metal. Said body portion is beaded at 2 at a short distance beneath the upper end thereof.

There is a closure member which includes a nozzle section 3 and a skirted section 4. The nozzle section is provided with a closed end 5 having perforations 6 therein through which the powder may be dispensed. The skirted section 4 is joined to the nozzle by an interfolded seam 7. This skirted portion has a depending skirt 8 provided with flat sides and rounded corners conforming to the flat sides and rounded corners of the body of the container. This depending skirt is dimensioned so that it makes frictional contact with the outer face of the body wall above the bead therein.

A reinforcing member 9 formed of metal is adapted to be secured to the interfolded seam. As shown, the reinforcing member has a retaining part 10 which extends into the interfolded seam so this retaining part is gripped and thus the reinforcing member is secured to the closure end as a unit. This retaining portion of the reinforcing member is circular in shape to conform to the shape of the seam joining the skirted section to the nozzle section. This reinforcing member has a depending wall 11 which carries an upwardly extending wall 12. These walls 11 and 12 are shaped so as to conform with the flat sides of the container body. It also has rounded corners indicated at 13 in Figure 4. This upstanding member 12 of the reinforcing member is curved outwardly and is dimensioned and positioned so as to engage the inner upper end portion of the body wall a short distance from the end and this is what prevents the body wall from

springing inwardly away from the skirt. Furthermore, the body wall is curved inwardly at its upper end and extends over the end of the member 12 when the closure member has been applied to the container body. This aids in holding the closure member on.

A fiber gasket 14 is placed inside of the skirted section of the closure end. This gasket extends over the end of the upwardly projecting part 12 of the reinforcing member and also extends over a portion of the reinforcing member adjacent the retaining part 19 thereof. The gasket is placed in the skirted part, then the reinforcing member is inserted and the interfolded seam is then formed so as to secure together the reinforcing member, the closure end and gasket as a unit. The upper end of the body wall may be bent inwardly as indicated at 15 so as to provide a reinforcement for the upper end of the body wall where it contacts with the gasket so as to aid in the forming of a tight seal, preventing any escape of powder.

Attached to the nozzle section is a cap 16. This cap 16 is provided with perforations 17. The depending skirt of the cap has a beaded connection 13 at its lower end with the nozzle which holds the cap in place on the nozzle and at the same time permits it to be rotated thereon. There are the usual stops for limiting the rotation of the cap so as to bring the perforations 17 in the cap into proper alignment with the perforations 6 in the closed end 5 of the nozzle section.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of the invention as set forth in the appended claims.

I claim:

1. A container for dispensing powdered material comprising a body having flat sides and rounded corners, a closure end including a perforated nozzle section and a skirted section joined to the nozzle section by an interfolded seam, said skirted section having a depending skirt frictionally engaging the outer upper end portion of the body, a reinforcing member disposed within said skirted section and having a retaining part surrounding said nozzle and extending into said

seam whereby said retaining part is rigidly supported, said retaining part having a depending wall carrying an upwardly extending wall, said walls being shaped to conform to the flat sides of the body, the upstanding wall being dimensioned so as to engage the body wall at the upper inner side portion thereof for preventing the flat side of the body wall from swinging away from the skirt of the closure end.

2. A container for dispensing powdered material comprising a body having flat sides and rounded corners, a closure end including a perforated nozzle section and a skirted section joined to the nozzle section by an interfolded seam, said skirted section having a depending skirt frictionally engaging the outer end portions of the body, a fiber gasket disposed within said skirted section and dimensioned so as to extend into contact with the depending skirt, a reinforcing member disposed within the skirted section and having a retaining part extending into said seam, said retaining part having a depending wall carrying an upwardly extending wall, said walls being shaped to conform to the flat sides of the body, the upstanding wall being dimensioned so as to engage the body wall at the upper inner side portion thereof for preventing the flat sides of the body wall from springing away from its frictional grip with the skirt of the closure end, said reinforcing member adjacent the retaining part being also shaped and dimensioned so as to engage the fiber gasket and secure the same to the skirted section as a unit when said skirted section is joined to the nozzle section by the interfolded seam.

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