Dec. 16, 1952 M. FRIEDMAN 2,621,832

CONTAINER CLOSURE

Filed March 30, 1948

FIG. 1

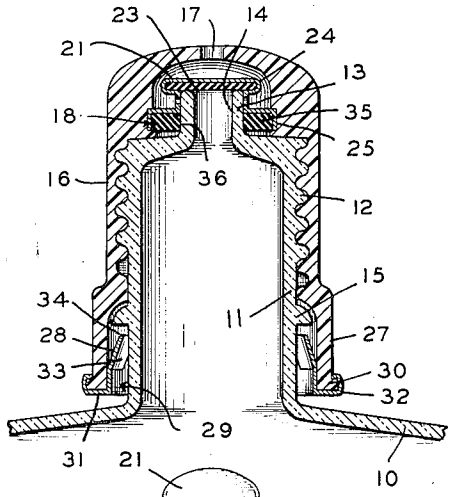


FIG. 2

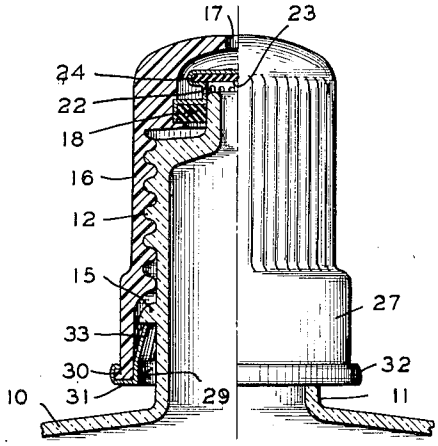
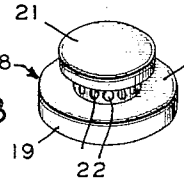
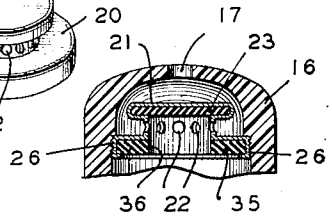


FIG. 3





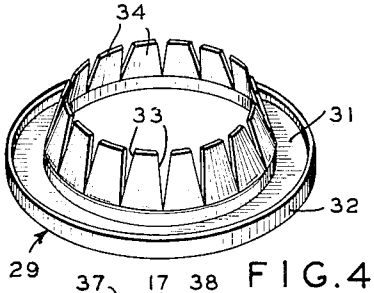


FIG. 4

FIG. 6

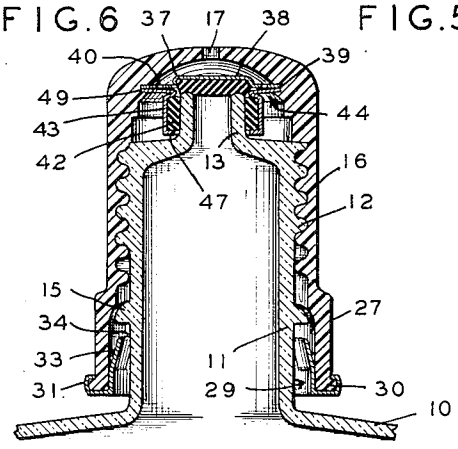


FIG. 5

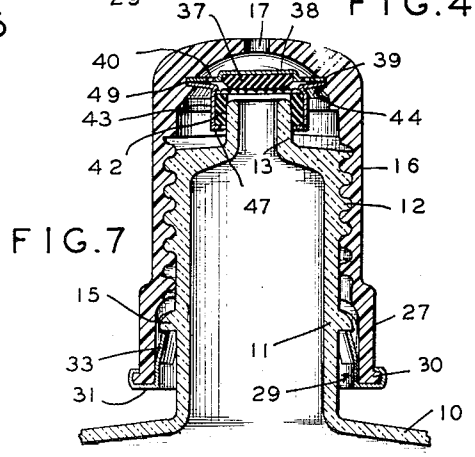


FIG. 7

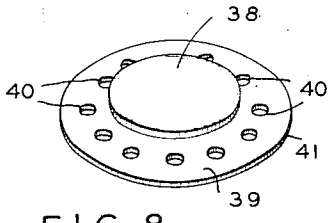


FIG. 8

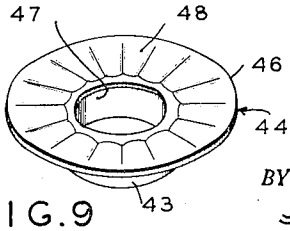


FIG. 9

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CONTAINER CLOSURE

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17 Claims. (Cl. 222—520)

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This invention relates to dispensing and more particularly to a dispensing closure for a container such as a bottle, jar, can or carton.

Heretofore various types and forms of dispensing closures have been provided but they have not been entirely satisfactory due to their tendency to leak and the inability to effectually seal the contents of the container against evaporation and exposure to the air which causes loss and deterioration of the contents. Also previous closures of this general type have not been unitary structures but have had various parts which were subject to loss and also these prior closures were difficult to manipulate in opening or closing the container.

It is therefore an object of the present invention to provide a dispensing closure comprising a minimum number of parts which may be easily and economically manufactured and which may be assembled with the container and easily manipulated to provide an effectual fluid tight seal and also be opened to the degree desired for dispensing of the contents.

It is a further object of the invention to provide a dispensing closure which may be fabricated in its entirety and subsequently assembled with the container to provide a unitary structure which cannot thereafter be removed from the container thus preventing loss of the closure or parts and yet being manipulable to perform its intended function.

It is a further object of the invention to provide a dispensing closure which is of relatively small size and attractive in appearance and in which means is provided to facilitate the drainage of fluid which has not been dispensed from the closure back into the container, thus preventing waste of the contained material.

Further objects and advantages of the invention will become apparent from a consideration of the following description taken in conjunction with the accompanying drawing, wherein:

Fig. 1 is a sectional view showing the closure in sealing position;

Fig. 2, a view partially in section showing the closure of Fig. 1 in open condition for permitting dispensing of the contents of the container;

Fig. 3, a perspective detail view of one part of the closure of Fig. 1;

Fig. 4, a perspective detail view of the means by which the closure is secured against displacement from the container;

Fig. 5, a fragmentary sectional view showing an alternative method of securing the part shown in Fig. 3 in the closure of Fig. 1;

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Fig. 6, a sectional view of a modified form of closure in sealing position;

Fig. 7, a sectional view of the closure of Fig. 6 in open condition for dispensing the contents of the container; and,

Figs. 8 and 9 perspective detail views of certain parts of the closure of Fig. 6.

With continued reference to the drawing, there is shown in Fig. 1 a container 10 having an elongated neck 11 provided with screw threads 12 and terminating in a reduced neck portion 13 providing a dispensing opening 14 in the container. Neck 11 is also provided adjacent the lowermost thread with an annular shoulder 15, the purpose of which will presently appear.

A cup shaped closure 16 is provided for the container 10 and this closure may be conveniently formed of plastic or other suitable material provided on the internal surface thereof with threads designed to mate with the threads 12 on neck 11. Closure 16 may also be provided with a dispensing opening 17 disposed centrally in the outer end thereof.

In order to seal the dispensing opening 14 in the container 10, there is provided a cup shaped member 18 having an annular recessed flange 19, a reduced cylindrical intermediate portion 20 and an enlarged recessed head or flange 21. Intermediate portion 20 may be provided with a series of apertures 22 through which the contents of the container 10 may flow when the closure is in open position.

In order to effectually seal the dispensing opening 14 the head 21 of the cup-like member 18 is provided with a sealing gasket 23 which may be formed of cork, rubber or other desirable material and which may be securely held in place by cement or by being crimped into the annular bead-like portion 24 of the head 21.

Cup-like member 18 may be secured in a recess 25 in closure 16 and may be secured in place, if made of metal, during the molding of the closure 16, or as shown in Fig. 5 may be provided with screw threads 26 on the annular shoulder 19 adapted to mate with threads provided in the closure 16. Member 18 may also be formed of plastic and sealed in place in the closure 16 by use of a hot tool applied to the juncture between the annular shoulder 19 and the interior of closure 16.

It is intended that the closure 16 and its associated parts be permanently assembled with the container 10 permitting only the necessary movement to open and close the closure for dispensing purposes. In order to carry out this intention,

the lower portion of the closure 16 is provided with a skirt 27 extending below the shoulder 15 on neck 11 of the container 10, there being an annular space 28 between skirt 27 and neck 11 for reception of a closure retaining member 29. Also in order to conveniently secure the retaining member 29 to the closure 16 the lower edge of skirt 27 is provided with an annular flange 30 on the outside surface thereof.

As best shown in Fig. 4, the retaining member 29 is provided with an annular channel 31 which is adapted to receive the lower edge of skirt 27 there being an upstanding annular flange 32 which may be crimped over the upper surface of flange 30 to secure member 29 in place on closure 16. Also provided on member 29 are an annular series of upstanding spring fingers 33, the internal diameter of the opening formed by upper ends 34 being slightly greater than the external diameter of neck 11 but less than the diameter of shoulder 15.

It will thus be seen from an inspection of Fig. 1 that in assembling the closure 16 with the neck 11 of container 10 it is only necessary to engage the threads of closure 16 to move the same downwardly on the neck 11 toward the body of the container 10. This movement will result in spring fingers 33 passing over the shoulder 15 and when the ends 34 of these fingers reach the lower edge of shoulder 15 they will snap inwardly into the annular space 28 beneath the lower surface of shoulder 15, thus effectively preventing upward movement of closure 16 beyond the point of engagement of the upper ends 34 of fingers 33 with the lower surface of the shoulder 15. The fingers 33 are so proportioned that the range of movement is sufficient to permit adequate opening of the dispensing aperture 14 whereby the contents of the container 10 may be dispensed.

In order to prevent leakage of the contents of the container 10 along the outside surface of reduced neck 13 and around threads 12 to the atmosphere cup-like gasket supporting member 18 is provided with an annular gasket 35 secured in the recess of flange 19 by beading over the edge thereof or by cementing the same in place. The inner annular surface 36 of the gasket 35 is proportioned to provide a tight engagement with the outer surface of reduced neck 13 but this engagement is not sufficiently tight to preclude rotational and sliding movement of the gasket 35 and cup-like member 18 with relation to reduced neck 13.

It will thus be seen that in operation it is only necessary to rotate closure 16 in the proper direction to raise gasket 23 away from the upper surface of reduced neck 13 thereby disposing the apertures 22 in cup-like gasket supporting member 18 slightly above the upper edge of reduced neck 13 as shown in Fig. 2 whereby upon inversion of the container 10 the contents thereof will flow outwardly through apertures 22 around bead 24 and outwardly through dispensing opening 17. As explained above, the outward movement of closure 16 is limited by the engagement of the ends 34 of fingers 33 with the lower surface of shoulder 15 thereby preventing removal and consequent loss of the closure 16. Upon reverse movement of closure 16 gasket 23 will again seat on the upper edge of reduced neck 13 thus effectually sealing in the contents of the container 10.

It is of course understood that the closure of this invention may be made without the skirt 27 and member 29 in order to provide a closure member which may be applied to a container or

removed therefrom at will. The elimination of these features in no way effects the sealing properties of the closure and this structure would merely be utilized when a removable cap or closure was desired.

A modified form of the invention is disclosed in Figs. 6 to 9 and in this form the closure 16 is substantially the same as that described above, being provided with screw threads mating with screw threads 12 on the neck 11 of the container 10. Closure 16 in this modification is also provided with the annular skirt 27, annular flange 30 and retaining member 29 secured thereto. Also in this modification neck 11 is provided with annular shoulder 15 beneath which the spring fingers 33 are disposed to prevent removal of the closure 16.

In accordance with this modification of the invention the upper surface of reduced neck 13 is sealed by a gasket 37 adhesively or otherwise secured in a downwardly opening depressed or recessed portion 38 of a platelike member 39. Member 39 is also provided with an annular series of apertures 40 disposed substantially midway between the periphery 41 thereof and the periphery of depressed portion 33.

In order to seal against leakage along the outer surface of reduced neck 13 there is provided an annular gasket 42, the inner surface of which tightly engages the outer surface of reduced neck 13, gasket 42 being disposed in the annular skirt 43 of a member 44 which is also provided with an outwardly flared flange 46. Gasket 42 may be secured in place in skirt 43 by beading over the edge 47 thereof or may be cemented in place. The upper surface of flange 46 is provided with flutes or corrugations 48 which extend from the outer peripheral edge thereof inwardly to the opening formed by the inner surface of gasket 42, thus forming radial channels the purpose of which will presently appear.

Members 39 and 44 are secured in place in the closure 16 preferably during the molding thereof, which results in the peripheral edges of these members being disposed and tightly secured in an annular recess 49 in the internal surface of closure 16. These members may however, be secured in place in the closure 16 in any other desired manner without impairment of the proper operation thereof.

In the operation of this form of the invention it is only necessary to rotate the closure 16 thus raising the gasket 37 away from the upper surface of reduced neck 13 a distance limited by the engagement of the upper edges 34 of spring fingers 33 with the lower surface of annular shoulder 15 whereby upon inversion of the container 10 the contents thereof will flow outwardly through reduced neck 13, apertures 40 in platelike member 39 and through the dispensing opening 17 in the outer end of closure 16.

When the container 10 is returned to upright position this may result in a small quantity of the contents thereof remaining in the space between the upper end of closure 16 and the upper surface of plate-like member 39. If this condition does exist the excess material may flow backwardly through apertures 40 and down the inclined channels formed by flutes or corrugations 48 in member 44 into the interior of container 10 through the reduced neck 13 whereupon the closure 16 may be rotated in the reverse direction to reseat the gasket 37 on the upper surface of reduced neck 13 thus effectually resealing the contents of the container. The position of the closure 16 and gasket 37 in open or

dispensing condition is clearly shown in Fig. 7.

It will thus be seen that by this invention there has been provided a simple yet effective dispensing closure which is composed of relatively few parts and which, once it is assembled with the associated container, cannot be removed therefrom, yet is easily manipulable to perform its intended function and which will permit drainage of excess material backwardly into the container and effectually seal the same against leakage or exposure to the air. This dispensing closure is also of relatively small size and may be given a pleasing appearance harmonizing with the remainder of the container, the manufacture of the device being very economical due to the fact that the majority of the parts thereof may be molded and that the few assembly operations necessary may be performed by relatively unskilled labor.

It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawings and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. A dispensing container and adjustable closure therefor comprising a container having a cylindrical neck provided with external screw threads, an outwardly extending annular shoulder on said neck adjacent the lower extremity of said threads and an upwardly extending reduced neck portion providing a dispensing opening, a closure for said opening comprising a cylindrical member having a restricted dispensing aperture centrally located in the upper end of said member and internal screw threads meshing with the threads on said neck, a depending cylindrical skirt on said member having an outwardly extending annular flange adjacent the lower end thereof, a closure retaining member secured to said flange and having a plurality of circumferentially disposed upwardly extending spring fingers positioned within said skirt and below said shoulder whereby upon application of said closure member to said neck said fingers will snap over said shoulder and thereafter prevent removal of said closure member from said neck, sealing means disposed within the upper portion of said closure member and comprising a supporting member, a sealing gasket fixed in said supporting member secured within said closure member and tightly embracing said reduced neck portion whereby rotary and longitudinal movement of said gasket relative to said reduced neck is permitted but leakage thereby is prevented, a second sealing gasket mounted in operative relation with respect to said first mentioned gasket for movement therewith and seating when said closure member is in closed position against the top surface of said reduced neck thereby preventing leakage from said container, and said supporting member having a plurality of apertures therethrough adjacent said gaskets whereby upon movement of said closure member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said closure member.

2. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, an outwardly extending annular shoulder on said neck and an upwardly extending reduced neck portion providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end of said member and internal screw threads meshing with the threads on said neck, a depending cylindrical skirt on said member having an outwardly extending annular flange adjacent the lower edge thereof, a closure retaining member secured to said flange and having a plurality of circumferentially disposed upwardly extending spring fingers positioned within said skirt and below said shoulder whereby upon application of said closure member to said neck said fingers will snap over said shoulder and thereafter prevent removal of said closure member from said neck, sealing means disposed within the upper portion of said closure member and comprising a supporting member, a sealing gasket fixed in said supporting member secured within said closure member and tightly embracing said reduced neck portion whereby rotary and longitudinal movement of said gasket relative to said reduced neck is permitted but leakage thereby is prevented, a second sealing gasket mounted in operative relation with respect to said mentioned gasket for movement therewith and seating when said closure member is in closed position against the top surface of said reduced neck thereby preventing leakage from said container, and said supporting member having a plurality of apertures therethrough adjacent said gaskets whereby upon movement of said closure member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said closure.

3. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, an outwardly extending annular shoulder on said neck and an upwardly extending reduced neck portion providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end of said member and internal screw threads meshing with the threads on said neck, a skirt on said member having an annular flange thereon, a closure retaining member secured to said flange and having a plurality of upwardly extending fingers positioned within said skirt and below said shoulder whereby upon application of said closure member to said neck said fingers will snap over said shoulder and thereafter prevent removal of said closure member from said neck, sealing means disposed within said closure member and comprising a sealing gasket fixed in said closure member and tightly embracing said reduced neck portion whereby rotary and longitudinal movement of said gasket relative to said reduced neck is permitted but leakage thereby is prevented, a second sealing gasket operatively mounted in operative relation with respect to said first mentioned gasket for movement therewith and seating when said closure member is in closed position against the top surface of said reduced neck thereby preventing leakage from said container, and said sealing means having a plurality of apertures providing communication from one side to the other of said gaskets whereby upon movement of said closure member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said closure member.

4. A dispensing container and adjustable closure therefor comprising a container having a

neck provided with screw threads, a shoulder on said neck below said screw threads, said neck terminating in an upwardly extending reduced neck portion providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on the lower end of said member permitting the initial application of said member to said neck but thereafter preventing removal by engagement with said shoulders, sealing means within said member and movable therewith engaging the top and side surfaces of said reduced neck whereby leakage from said container is prevented and said sealing means having a plurality of apertures through said sealing means outwardly of the top of the neck and above the bottom of the sealing means providing communication from one side to the other of said sealing means whereby when said closure is in open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said closure member.

5. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a cup-shaped element having a lower annular recessed flange, the outer wall of said flange being imbedded in the material of said member, a reduced cylindrical intermediate portion and an upper recessed annular flange, an annular gasket secured in the recess of said lower flange, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, a gasket secured in the recess of said upper flange and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing in the contents of said container, and said intermediate portion having a plurality of apertures therein substantially midway between said upper and lower flanges whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

6. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member for permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a cup-shaped element having a lower recessed flange, the outer wall of said flange being imbedded in the material of said member, a reduced intermediate portion and an upper recessed flange, a gasket secured in the recess of said lower flange, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, a gasket secured in the recess of said upper flange and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing in the contents of said container, and said intermediate portion having a plurality of apertures therein substantially midway between said upper and lower flanges whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

7. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a cup-shaped element having a lower recessed flange secured to said member, a reduced intermediate portion and an upper recessed flange, a gasket secured in the recess of said lower flange, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, a gasket secured in the recess of said upper flange and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing in the contents of said container, and said intermediate portion having a plurality of apertures therein substantially midway between said upper and lower flanges whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

8. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a cup-shaped element having a lower recessed flange secured to said member, a reduced intermediate portion and an upper recessed flange, a gasket secured in the recess of said lower flange, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, a gasket secured in the recess of said upper flange and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing in the contents of said container, and said intermediate portion having a plurality of apertures therein whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

9. A dispensing container and adjustable closure therefor comprising a container having a

neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck, means providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a cup-shaped element having means mounted therein tightly engaging the outer surface of said reduced neck, a second means secured in said cup-shaped element and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing the contents of said container, and said cup-shaped element having a plurality of apertures providing communication from one side to the other side of said cup-shaped element whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

10. A device as defined in claim 5 in which the outer wall of said lower flange is provided with screw threads meshing with screw threads in the inner wall of said closure member whereby said cup-shaped element is secured therein.

11. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a recessed element having an upper flared flange, a cylindrical gasket secured in said recess, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, an upper plate-like element having a downwardly opening recess therein, the peripheral edge of said plate-like element together with the peripheral edge of said flared flange being juxtaposed and imbedded in the material of said member, a gasket secured in the recess in said plate-like element, said gasket adapted when said member is in closed position to engage the upper surface of said reduced neck to seal in the contents of said container, and said plate-like element having a plurality of annularly disposed apertures therein substantially midway between the recess therein and the periphery, said flared flange being provided with radially disposed flutes defining channels whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, along said channels through said apertures and the dispensing aperture in said closure member and whereby prior to movement of said closure member to closed position excess material in the top portion of said closure member may drain back into said container through said apertures, along said channels and through said reduced neck.

12. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a recessed element having an upper flange, a gasket secured in said recess, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, an upper plate-like element having a recess therein, the peripheral edge of said plate-like element together with the peripheral edge of said flange being juxtaposed and secured to said member, a gasket secured in the recess in said plate-like element, said gasket adapted when said member is in closed position to engage the upper surface of said reduced neck to seal in the contents of said container, in said plate-like element having a plurality of apertures therein, said flange being provided with radially disposed flutes defining channels whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, along said channels, through said apertures and the dispensing aperture in said closure member and whereby prior to movement of said closure member to closed position excess material in the top portion of said closure member may drain back to said container through said apertures along said channels and through said reduced neck.

13. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member and comprising a recessed element having an upper flange, a gasket secured in said recess, the inner surface of said gasket tightly engaging the outer surface of said reduced neck, an upper plate-like element having a recess therein, the peripheral edge of said plate-like element together with the peripheral edge of said flange being juxtaposed and secured to said member, a gasket secured in the recess in said plate-like element, said gasket adapted when said member is in closed position to engage the upper surface of said reduced neck to seal in the contents of said container, said plate-like element having a plurality of apertures therein, whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, through said apertures and the dispensing aperture in said closure member and whereby prior to movement of said closure member to closed position excess material in the top portion of said closure member may drain back to said container through said apertures and through said reduced neck.

14. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly

extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, means on said member permitting the initial application of said member to said neck but thereafter preventing removal, sealing means secured within the upper portion of said member comprising means tightly engaging the outer surface of said reduced neck and a second means adapted when said closure member is in closed position to engage the top suface of said reduced neck thus sealing in the contents of said container, and said sealing means having apertures therein providing communication from one side to the other side of said sealing means whereby upon movement of said closure member to open position the contents of said container may flow through said reduced neck, through said apertures and the dispensing aperture in said closure member and whereby prior to movement of said closure member to closed position excess material in the top portion of said closure member may drain back into said container through said apertures and through said reduced neck.

15. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, said neck terminating in an upwardly extending reduced neck portion providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, sealing means within said member and movable therewith engaging the top and side surfaces of said reduced neck whereby leakage from said container is prevented, and said sealing means having a plurality of apertures through said sealing means outwardly of the neck top and above the bottom of the sealing means providing communication from one side to the other side of said sealing means whereby when said closure is in open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said closure member.

16. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck, means providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, sealing means secured within the upper portion of said member and comprising a cup-shaped element having means mounted therein tightly engaging the outer surface of said reduced neck, a second means secured in said cup-shaped element and adapted when said member is in closed position to engage the top surface of said reduced neck thus sealing the contents of said container, and said cup-shaped element having a plurality of apertures extending through said element whereby upon movement of said member to open position the contents of said container may flow through said reduced neck, said apertures and the dispensing aperture in said member.

17. A dispensing container and adjustable closure therefor comprising a container having a neck provided with screw threads, a shoulder on said neck, said neck terminating in an upwardly extending reduced neck providing a dispensing opening, a closure for said opening comprising a member having a dispensing aperture in the upper end thereof and internal screw threads meshing with the threads on said neck, sealing means secured within the upper portion of said member comprising means tightly engaging the outer surface of said reduced neck and a second means adapted when said closure member is in closed position to engage the top surface of said reduced neck thus sealing in the contents of said container, and said sealing means having apertures therein providing communication from one side to the other side of said sealing means whereby upon movement of said closure member to open position contents of said container may flow through said reduced neck, through said apertures and the dispensing aperture in said closure member and whereby prior to movement of said closure member to closed position excess material in the top portion of said closure member may drain back into said container through said apertures and through said reduced neck.

MAX FRIEDMAN.

REFERENCES CITED

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