Aug. 12, 1952 J. CHLUDA 2,606,692

CONTAINER WITH BODILY SLIDABLE CLOSURE

Filed Aug. 3, 1948

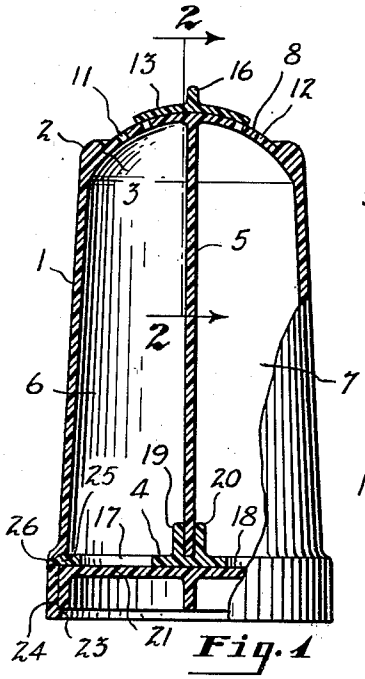


Fig. 1

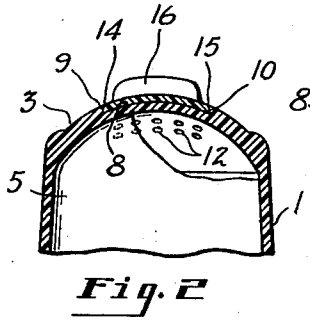


Fig. 2

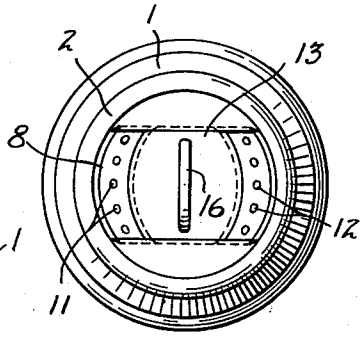


Fig. 3

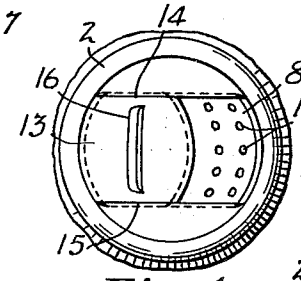


Fig. 4

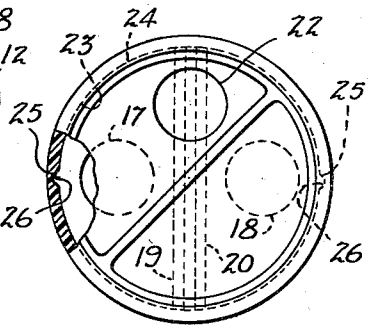


Fig. 5

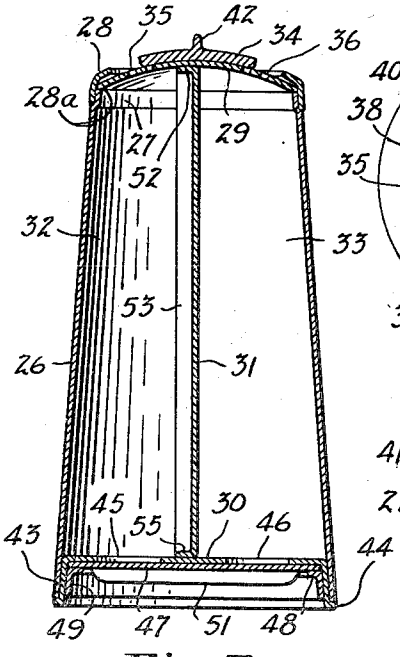


Fig. 6

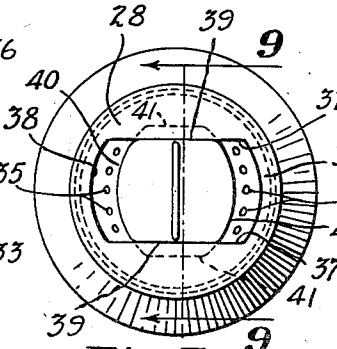


Fig. 7

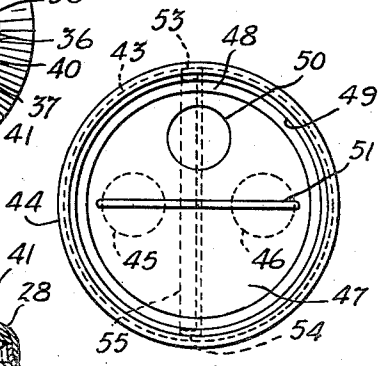


Fig. 8

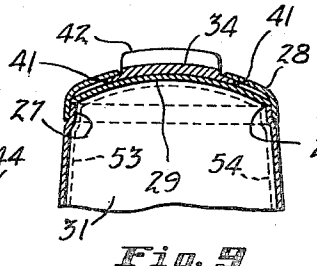


Fig. 9

INVENTOR
John Chluda
BY
John Mahoney
ATTORNEY

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CONTAINER WITH BODILY SLIDABLE CLOSURE

John Chluda, Cleveland, Ohio

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6 Claims. (Cl. 222—142.8)

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My invention relates to containers provided with a plurality of compartments, including means for selectively providing an opening leading into each compartment through which an ingredient, such as a condiment, may be introduced into each compartment and for providing openings through which ingredients in each compartment of the container may be selectively dispensed.

An object of the present invention is to provide an improved container of the compartmented type that may be constructed in a simple manner and in which a slide is provided which is effective by a comparatively short movement in closing the dispensing openings in the top wall leading from one compartment and exposing the openings leading from the other compartment

Another object of my invention is to provide an improved container of the compartmented type having a convex upper portion provided with a recess to receive a slide for selectively covering and exposing openings leading from each compartment.

Further objects and advantages of my invention will be apparent as the specification proceeds.

My invention will be better understood by reference to the accompanying drawings in which:

Fig. 1 is a cross sectional view with parts in elevation of my improved container;

Fig. 2 is a cross sectional view of the upper portion of the container on a plane passing through the line 2—2 of Fig. 1;

Fig. 3 is a plan view of the upper portion of the container with the slide substantially midway between its two extreme positions;

Fig. 4 is a fragmentary view similar to Fig. 3 but showing the slide in a different position;

Fig. 5 is a bottom plan view of the container shown in Fig. 1 with parts broken away to show adjacent structure;

Fig. 6 is a cross sectional view of a modified form of container;

Fig. 7 is a top plan view of the container shown in Fig. 6 with the slide arranged substantially midway between its extreme end positions;

Fig. 8 is a bottom plan view of the container shown in Fig. 6, and

Fig. 9 is a cross sectional view on a plane passing through the line 9—9 of Fig. 7.

While my improved container may be formed of any desirable material and I do not desire to be limited in this respect, in Figs. 1 to 5 of the drawings, it is shown as being formed of a plastic material. As illustrated, the container comprises

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an outer peripheral wall 1 that is substantially cylindrical in cross section and which tapers upwardly terminating in a bead 2, a top wall 3, and a bottom wall 4. The inner portion of the top wall 3 has a concave inner portion which is integral with a partition wall 5 that divides the container into compartments 6 and 7 and the opposite edges of which are preferably formed integral with the peripheral wall 1 as shown in Fig. 2.

The compartments 6 and 7 are adapted to contain different condiments, such as salt and pepper, and novel means are provided in the top wall of the container which permits either the salt or pepper to be dispensed from one compartment of the container while the other compartment is maintained in a closed position. For this purpose, the upper wall 3 of the container is provided with a recessed portion 8 of less thickness than the remainder of the top wall. As illustrated in Figs. 3 and 4, the recess portion 8 of the top wall extends diametrically across the top of the container and is bordered on opposite sides by inwardly bevelled edges 9 and 10 formed in the top wall and at its opposite ends by oppositely arranged portions of the bead 2 of the container. The recessed portion 8 of the top wall is provided on opposite sides of partition 5 with small openings designated by the numerals 11 and 12 and a slide 13 having bevelled side edges 14 and 15 which fit in the grooves formed by the bevelled edges 9 and 10 of the top wall, is slidable in the recessed portion of the top wall from a central position as shown in Fig. 3 to the position shown in Fig. 4 to close openings 11 at which time openings 12 are exposed or in the opposite direction to close openings 12 and expose openings 11. The slide 13 is also formed of a plastic material, such as Celluloid, and is slightly flexible so that when the edge 14 of the slide 13 is pressed in the groove formed by the bevelled edge 9 the opposite edge 15 of the slide may be easily snapped into place in the grove formed by the bevelled edge 10. The slide 13 is provided with an upwardly extending lug or handle 16 for moving it to its opposite positions.

In the construction shown, it will be noted that the openings are formed in the recessed portion of the top wall and that the top wall has an outer convex surface. It will therefore be apparent that only a slight movement of slide 13 is required to close one group of openings and expose the other group of openings. Because the slide is movable in the recessed portion of the top wall, opposite portions of the bead 2 limit the move-

ment of the slide in either direction and since the upper portion of the slide forms a continuation of the upper convex surface of the top portion, it does not mar the appearance of the container.

To enable condiments to be introduced into comparement 6 or compartment 7 of the container, the bottom wall 4 of the container is provided with an aperture 17 communicating with compartment 6 and an aperture 18 communicating with compartment 7 and to prevent intermingling of the ingredients in the compartments, the bottom wall may be provided with longitudinally extending strips 19 and 20 spaced a sufficient distance from each other to receive the bottom margin of partition 5. Such strips, however, are not necessary as the partition may rest directly on the bottom wall.

Means associated with the bottom wall is also provided which is movable to a position to close openings 17 and 18 or to selectively provide access to either of the openings to introduce the desired condiment in compartments 6 and 7. For this purpose, a cup-shaped slide 21 may be utilized which is also preferably formed of a slightly flexible material, such as celluloid, and which is provided with an opening 22 as shown in Fig. 5 of the drawings. For holding slide 21 in position, the bottom portion of the container 1 is provided with an inwardly extending bead 23 and slide 21 is provided with an outwardly extending bead 24 adjacent its lower edge and when slide 21 is snapped into place beads 23 and 24 hold it in position. It will be noted that slide 21 is provided with a partition which forms a handle for turning the slide and consequently the opening 22 in the slide may be rotated to a position in which opening 22 registers with opening 17 so that a condiment may be introduced into compartment 6 at which time the aperture 18 is closed, or it may be rotated to a position in which the aperture 22 in the slide registers with aperture 18 to provide access for introducing the selective condiment in the compartment 7 at which time aperture 17 leading into compartment 6 is closed.

When slide 21 is turned, it also has the tendency to turn cover 4. Strips 19 and 20, however, prevent cover 3 from turning with the slide. In the event that strips 19 and 20 are omitted or to aid strips 19 and 20 in this respect, the diametrically opposite portions of cover 4 may be provided with lugs or projections 25 which are adapted to be snapped into indentations or notches 26 formed in the peripheral wall 1.

Another modification of my invention is shown in Figs. 6 to 8 of the drawings in which the container is made of metal. As illustrated, the container comprises a peripheral wall 26 of substantially circular cross section, which terminates at its upper end in an offset portion 27, a cap 28, a cover 29, a bottom wall 30, a partition 31 which divides the container into compartments 32 and 33, and a slide 34. As illustrated in Figs. 7 and 8, the outer surface of cap 28 is convex and is provided with a downwardly extending flange which engages the offset portion 27 of wall 26 with a press fit and cover 29 is provided with a group of small apertures 35 through which a condiment in compartment 32 may be dispensed when slide 34 is in one position and a group of small apertures 36 through which a condiment in compartment 33 may be dispensed when the slide 34 is in a different position.

As illustrated more particularly in Fig. 7, the cap 28 is provided with a cut-out portion having oppositely disposed side edges 37 which extend across the central portion of the cover 29 and oppositely disposed arcuate-shaped end edges 38 and slide 34 has a concave lower surface snugly engaging cover 29 and oppositely disposed edges 39 which slidably engage edges 37 of cap 28. Slide 34 is also provided with arcuate-shaped ends 40 which are shaped to snugly engage the arcuate-shaped ends 38 when slide 34 is moved in opposite directions from its central position. Slide 34 is also provided with fins or attenuated portions 41 extending from the opposite sides thereof which are arranged between cap 28 and cover 29.

In assembling the upper portion of the container, cover 29 is inserted in place with its edge 28*a* engaging the offset portion 27 of peripheral wall 26, the slide 34 is superimposed upon the cover, and cap 28 is inserted over cover 29 and the fins or attenuated portions 41 extend from the sides of the slide. As illustrated in Fig. 6, cap 28 has a downwardly extending flange which fits in the annular recess formed by the offset portion 27 and engages the offset portion 27 of the container wall with a press fit or it may be held in place by other suitable means, such as welding.

In the assembled construction, it will be noted that the cut-out portion of cap 28 forms a recess in which slide 34 fits, that the edges of slide 34 engage the opposite side edges of the cut-out portions of cap 28, and that the ends 38 of the cut-out portion limit the movement of slide 34 in opposite directions. As illustrated in the drawings, cap 28 is spaced upwardly from cover 29 at a sufficient distance to provide a guideway between the cap 28 and cover 29 for the attenuated portions or fins 41 of slide 34 which slide may be moved in one direction to cover openings 35 at which time the condiment in compartment 33 may be dispensed through openings 36 or in the opposite direction to close openings 36 at which time the condiment in compartment 32 may be dispensed through openings 35. To facilitate the movement of slide 34, it is provided with an upwardly extending handle or lug 42.

As shown in Fig. 6 of the drawings, the bottom 30 is spaced upwardly from the lower portion of wall 26 and is provided with a downwardly extending annular flange 43 which terminates in an outwardly extending edge 44 and the lower portion of wall 26 may be welded or otherwise secured to flange 43 and bead 44.

For introducing condiments into the container, the bottom wall is provided with an aperture 45 arranged on one side of partition 31 which aperture communicates with compartment 32 and an aperture 46 arranged on the opposite side of partition 31 which communicates with compartment 33. Apertures 45 and 46 are normally maintained in closed position by means of a slide 47 which is rotatable in a guideway formed between wall 30 and an inwardly extending flange 48 of an angular strip, the other flange 49 of which is welded or otherwise secured to the annular flange 43 of bottom wall 30.

Slide 47 is provided with an aperture 50 as illustrated in Fig. 8 of the drawings and is adapted to be rotated by means of a handle 51 to a position as shown in Fig. 8 in which it closes both apertures 45 and 46 or to selective positions in which it registers with aperture 45 or aperture 46. It will be noted that the raised portion of cover 30 provides a space for handle 51.

To prevent intermingling of the ingredients in the container, the upper portion of partition 31

is provided with an arcuate-shaped flange 52 which engages the inner concave surface of cover 29 and cover 29 is held firmly in engagement therewith by cap 28. It is also provided with side flanges 53 and 54 which engage the side walls of container 26 with a press fit and a flange 55 which engages the bottom wall 30 between apertures 45 and 46.

What I claim is:

1. A container having a bottom wall, an outer peripheral wall extending upwardly from the bottom wall, a cover having its outer edges resting upon the upper edges of the peripheral wall, a partition dividing said container into two compartments, said cover having two groups of openings, one group of which communicates with one compartment and the other group of which communicates with the other compartment, a cap arranged over said cover having a central open portion extending diametrically across said cover providing a recess and said cap being provided with a flange engaging the peripheral wall of said container, a slide movable in the recess formed by the opening in said cap and having fins arranged between said cover and said cap and said slide being movable in opposite directions from a central position to cover one group of openings and expose the other group of openings, and the portions of said cap at opposite ends of its opening being effective in limiting the movement of said slide.

2. A container having a bottom wall, an outer peripheral wall extending upwardly from the bottom wall and having an inwardly offset portion, a cover having its outer edges resting upon the upper edges of the peripheral wall, a partition dividing said container into two compartments, said cover having two groups of openings, one group of which communicates with one compartment and the other group of which communicates with the other compartment, a cap arranged over said cover having a central open portion extending diametrically across said cover providing a recess bounded by the side and end edges of said cap, a slide movable in said recess, said slide having opposite edges engaging the cap at the side edges of said recess and fins slidably arranged between said cap and cover and said cap having end edges bordering said recess which limit the movement of said slide in opposite directions, said slide being movable in opposite directions from a central position to selectively expose one group of openings to permit a condiment to be dispensed from one of said compartments and to close the other compartment, and said cap having a downwardly extending peripheral flange engageable with the peripheral wall at said offset portion for maintaining said cover and slide in position on said container.

3. A container having a bottom wall, an outer peripheral wall extending upwardly from the bottom wall, a cover having a concave inner surface and its outer edges resting upon the upper edges of the peripheral wall, a partition dividing said container into two compartments, said partition having an upper arcuate-shaped flange engaging said cover and side flanges engaging the peripheral wall of said container with a press fit, said cover having two groups of openings, one group of which communicates with one compartment and the other group communicating with the other compartment, a cap arranged over said cover providing a recess bordered by the side and end edges of said cap, a slide movable in

said recess, said slide having opposite sides engaging side edges of said cap adjacent said opening and the end edges of said cap bordering said opening being effective in limiting the movement of said slide in opposite directions, said slide being movable in opposite directions from a central position to selectively expose one group of openings to permit a condiment to be dispensed from one group of openings and to seal the other group of openings, and said cap having a downwardly extending peripheral flange secured to the peripheral wall of the container for maintaining said cover and slide in position on said container and said cover in firm seating engagement against the arcuate-shaped flange on said partition.

4. A container having a bottom wall, an outer peripheral wall extending upwardly from the bottom wall, a cover having its outer edges resting upon the upper edge of the peripheral wall, a partition dividing said container into two compartments, said cover having two groups of openings, one group of which communicates with one compartment and the other group of which communicates with the other compartment, a cap arranged over said cover which engages the peripheral wall of said container for holding said cover in place, said cap having a central open portion extending diametrically across said cover providing a recess bounded by the side and end edges of said cap bordering said opening, a slide arranged in said recess having side edges engaging the side edges of said cap bordering said recess and fins extending between said cap and said cover, and said slide being movable in one direction to close the first group of openings and expose the second group of openings and being movable in the opposite direction to close the second group of openings and expose the first group of openings, one end of said slide being engageable with the edge portion of said cap which borders one end of said recess to limit movement of said slide in one direction and the other end of said slide being engageable with the edge portion of said cap bordering the other end portion of said recess to limit movement of said slide in the opposite direction.

5. A container having a bottom wall, an outer peripheral wall tapering upwardly from the bottom wall and being provided at its upper end with an inwardly offset edge, a convex shaped cover for said container having its bottom edge resting upon the upper edge of the offset portion of said peripheral wall which cover has a concave inner surface and a convex outer surface, a partition for said container having a horizontally extending flange engaging the inner surface of the bottom wall, a flange having a convex surface engaging the concave inner surface of said cover and side flanges engaging the peripheral wall of said container at opposite portions throughout its length, said cover having a first group of openings which communicate with one compartment and a second group of openings which communicate with the other compartment, a cap arranged over said cover having a flange engaging the offset edge of the peripheral portion, which cap has a convex upper portion of substantially the same shape as said cover, said cap having an opening of substantial width therein bounded by side edges and arcuate-shaped end edges, a slide arranged in said recess, said slide having a concave portion engaging the upper convex surface of said cover, side edges engaging the edges of said cap bordering the sides

of said recess and arcuate-shaped end portions and said slide being provided with fins which extend between said cover and said cap, said slide being movable in one direction to engage the edges of said cap bordering one end of said recess to thereby close the first group of openings and expose the second group of openings and being movable in the opposite direction to cause its other arcuate-shaped end to engage the arcuate-shaped edge of said cap bordering the other end of said recess to thereby cover the second group of openings and expose the first group of openings, and the upper portion of said slide being convex in shape and being flush with and forming a continuation of the convex upper surface of said cap.

6. A container having a peripheral wall, a bottom wall a partition dividing the container into two compartments, a cover having two groups of openings, one group of which communicates with one of said compartments and the other group of which communicates with the other compartment, means arranged at the upper portion of said container for selectively covering one group of openings and exposing the other group of openings, said bottom wall being arranged interiorly of the peripheral wall and being spaced upwardly a substantial distance therefrom and having a downwardly extending peripheral flange which engages and is secured to the lower edge of the peripheral wall to provide a space between the bottom wall and the lower portion of the peripheral wall and said bottom wall being provided with a first opening leading into one of said compartments and a second opening leading into the other compartment, an angular shaped member having a downwardly extending peripheral flange secured to the flange of said bottom wall and an inwardly extending peripheral flange spaced from the bottom wall to form a recess, a substantially circular slide having its edges movable in said recess, said slide being provided with an opening which may be moved to a position in which said slide covers both openings in said bottom wall or to positions in which it selectively registers with each of said openings, and means for rotating said slide comprising a member which extends downwardly into the space between the bottom wall and the lower edge of said peripheral wall and which is operatively connected to said slide.

JOHN CHLUDA.

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