April 10, 1928. 1,665,238

L. TURAN

CONTAINER

Filed April 12, 1926

Fig. 1,

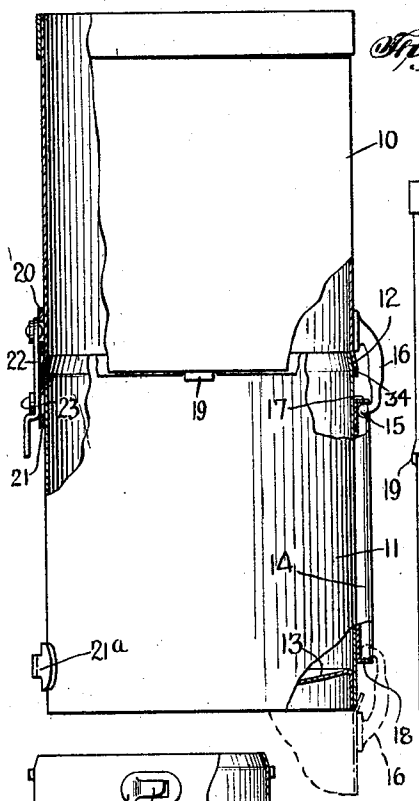


Fig. 2,

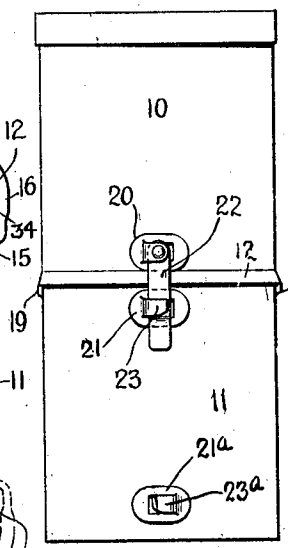
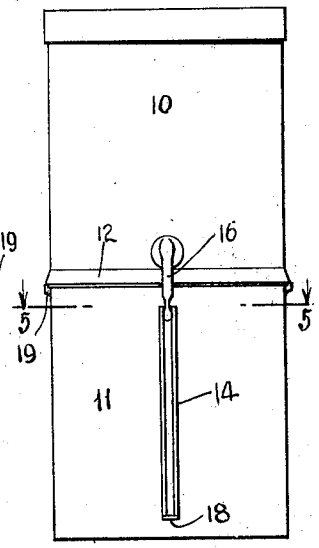


Fig. 3,



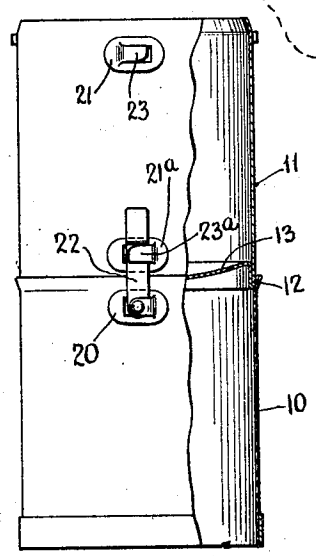


Fig. 4.

Fig. 5,

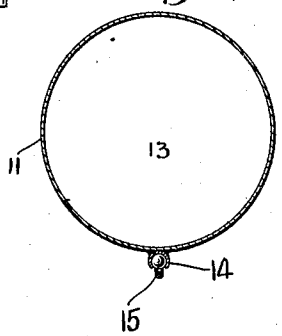
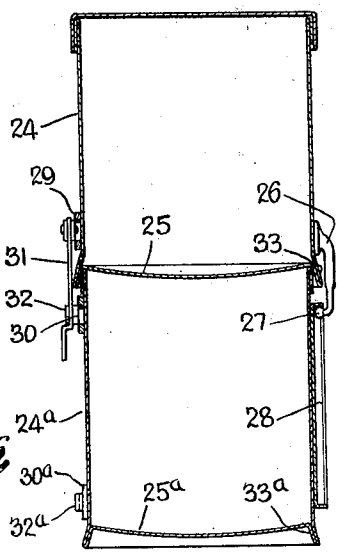


Fig. 6,



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UNITED STATES PATENT OFFICE.

LOUIS TURAN, OF BROOKLYN, NEW YORK.

CONTAINER.

Application filed April 12, 1926. Serial No. 101,266.

This invention relates to containers for products of various kinds and classes such for example as ice cream cans or containers; and the object of the invention is to provide a container composed of two or more parts with means for movably coupling said parts whereby a normal top part of a can may be moved into position to assume a bottom part thereof and the next adjacent part then constitutes the top part of the container; a further object being to provide means for permanently connecting the separate parts of the container, said means permitting of the movement of the separate parts relatively to each other in the adjustment of said parts into their several positions; a further object being to provide means for locking the separate parts of the container together in the different positions thereof, one part of said locking means being universally used in this accomplishment; a still further object being to provide a device of the class and for the purpose specified, comprising two or more substantially similar can or container members movably and adjustably coupled, whereby the relative positions of said members may be changed, said container members being mounted one above the other; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified which is simple in construction and operation, efficient in use and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a side view of a container made according to my invention with parts of the construction broken away and in section.

Fig. 2 is a view of one side of the container shown in Fig. 1 on a reduced scale.

Fig. 3 is a view similar to Fig. 2 but showing an opposite side of the container.

Fig. 4 is a view similar to Fig. 2 but showing the separate parts of the can in a changed position.

Fig. 5 is a section on the line 5—5 of Fig. 3; and,

Fig. 6 is a transverse sectional view through a modified form of container device wherein two cans or container members are employed.

In Figs. 1 to 5 inclusive, I have shown for the purpose of illustrating one use of my invention, a can of the general form and dimensions of an ice cream can or container such as is commonly used in the freezing and transportation of ice cream, sold to the retail trade. In the construction shown, the can comprises two members 10 and 11, the member 10 constituting the top member proper of the can and is open at the bottom and is provided with a flared rim portion 12, while the member 11 is provided with a bottom 13 preferably set inwardly of the lower edge of said member as seen in Fig. 1 of the drawing. On the outer face of the member 11 is a track 14 of channel formation in cross section and so fashioned to receive the ball end 15 of a hinge arm 16 of universal joint type secured to the outer face of the lower portion of the member 10. The arm 16 extends in substantially parallel relation to the longitudinal plane of the member 10 and the ball end 15 is arranged at right angles to said arm. The parts 14, 15 and 16 constitute a hinge construction wherein the hinge arm 16 and the ball end 15 thereof is movable longitudinally of the channeled member 14 and the closed ends 17 and 18 serve to limit the movement of the ball end 15 in both directions in the channel 14.

The member 15 is preferably provided at opposite points and at right angles to the hinge construction with projecting lugs 19 to form stops for limiting the downward movement of the member 10 on the member 11. Arranged opposite the hinge construction of said members 10 and 11 is a catch device comprising two parts 20 and 21, the part 20 carrying the pivot arm 22 engaging a keeper 23 on the part 21 for locking the parts 10 and 11 together against accidental displacement. By moving the arm 22 to the right, note Fig. 2, the parts 10 and 11 may be uncoupled and the part 11 swung upwardly and outwardly on the hinge construction and then moved downwardly to bring the lower flared edge 12 of the member 10 beneath the lower edge of the member 11, note Fig. 4 of the drawing. In this position of the parts, the arm 22 of the catch device which is on the part 20 engages another part 21ª on the

member 11, similar to the part 21 but arranged at the opposite end portion of said member 11, the part 21ª having a keeper 23ª in connection with which the lock arm 22 operates.

In the use of ice cream cans, which is given as an example of one method of carrying my invention into effect, difficulty is experienced in removing the ice cream from the lower portion of the can in that the arm of the operator must pass down into the bottom portion of the can, and difficulty is experienced in digging out the ice cream. Further, it is a known fact that a comparatively large body of ice cream in the average or commonly known can or container, when constantly subjected to the atmosphere results in a loss of considerable ice cream by exposure to the elements. However, with my improved construction, it will be understood that when half of the cream has been removed from the container, the normal top part 10 may be reversed and brought to the lower portion of the device, thus bringing the normal bottom 13 of the member 11 at the central portion of the container thus interchanged, bringing the ice cream to a place where it may be readily removed from the container and also presenting an effect that a filled or comparatively filled can of ice cream presents, especially to the eye of a purchaser. It will be understood that the cans in question are mounted in freezing apparatus or ice chests such as are commonly employed in confectionery stores, drug stores and like places where ice cream is sold or used in any way.

In Fig. 6 of the drawing, I have shown another method of carrying my invention into effect wherein I have shown two substantially similar can or container members 24 and 24ª, the member 24 constituting the normal top member while the member 24ª, the normal bottom member. However, it will be noted that both of these members are provided with bottom walls 25 and 25ª whereby ice cream or other products or substances may be contained within each member and the normal bottom member 24ª may be retained in a sealed and preservative condition until it is desired to move the same into the uppermost position in the inversion of said members in the same manner as with the construction shown in Figs. 1 to 5 inclusive.

In Fig. 6 of the drawing, I have shown a hinge arm 26 on the member 24 and provided with a ball end 27 working in an elongated channel 28 on the periphery of the member 24ª and a catch device having parts 29 and 30 similar to the parts 20 and 21 is mounted respectively on the parts 24 and 24ª the part 29 having an arm 31 engaging a keeper 32 on the part 24ª and another part 30ª having a keeper 32ª is mounted on the part 24ª adjacent the lower end, the part 30ª being similar to the part 21ª. It will also be noted that the lower ends of both parts 24 and 24ª have outwardly flared walls 33 and 33ª respectively whereby the upper edges of the respective parts 24 and 24ª may be placed within the countersunk bottoms of the other parts when the parts are in normal and inverted positions.

It will be noted on a consideration of Fig. 1 of the drawing that I preferably insert between the adjacent edges of the members 10 and 11, a packing ring or gasket 34 to effect a seal to prevent any possible leakage of the contents of the can or container or to prevent moisture from an external source entering the can or container. It will be understood that any suitable means may be provided to produce a seal at this point especially in the original or initial use of the can or container.

It will be understood that my improved can or container may be used for many purposes other than the specific purpose herein given as an example. In other words, the container may be used for such products as greases, heavy oils and food products of various kinds and classes. It will also be apparent that I am not necessarily limited to the specific type of clasp herein shown and described for coupling the several parts together, nor am I limited to the number of container or can members employed, and various other changes in any modifications of the construction herein shown and described may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. A container of the class described comprising two parts of substantially the same dimensions throughout, means for coupling said parts together and permitting of relative movement of the parts one upon the other whereby a normal top part may be moved into position to assume a bottom part of the complete device, means for securing the separate parts together against displacement in the several positions thereof, one of said parts having a transverse wall and the movable coupling of the several parts being of universal joint construction.

2. A container of the class described comprising two members of like capacities adapted to be mounted one upon the other, means for hinging said members together and to permit of the movement of said members into position to invert the relative positions thereof, means for coupling the members together in the different positions thereof, said hinge means comprising a channel extending longitudinally of one of

said members and a ball part on the other member movably mounted in said channel.

3. A sectional container of the class described comprising two container members normally arranged in end to end relation, means for movably coupling said members together to permit of the placement of either member on top of the other member, whereby a normal top member may be moved into position to assume a bottom member of the complete device, and the inside dimensions of said members comparatively being of the same dimensions throughout their length, forming in said members, chambers, the inner faces of the side walls of which are in common alinement when said members are placed one upon another, and means for securing the separate members together in the several positions thereof.

4. In a container device composed of two movably connected container parts, a channel member extending longitudinally of the outer wall of one of said parts, an arm secured to the other of said parts and provided with a member operating in and retained against displacement from the channel member of the other part whereby the normal top part of the container may be moved relatively to the other part and placed beneath the same and in end to end relation therewith, and the member on said arm being of ball formation to provide universal movement of the arm relatively to the channel member.

5. In a container device composed of two movably connected container parts, a channel member extending longitudinally of the outer wall of one of said parts, an arm secured to the other of said parts and provided with a member operating in and retained against displacement from the channel member of the other part whereby the normal top part of the container may be moved relatively to the other part and placed beneath the same and in end to end relation therewith, the member on said arm being of ball formation to provide universal movement of the arm relatively to the channel member, and means at the end portions of each of said parts for coupling the same together in the several positions thereof.

In testimony that I claim the foregoing as my invention I have signed my name this 8th day of April, 1926.

LOUIS TURAN.