This invention relates to a dispensing device, and while primarily designed and intended for attachment to the top of a bottle containing catchup and operable for dispensing the latter in desired quantities, it will be obvious that the device may be employed for dispensing any other sauces or products from bottles wherein it is found to be applicable.

It is a well known fact that catchup has a tendency to set or congeal to some extent in the confines of the reduced neck of the conventional type of bottle container, making it necessary to violently shake the container while holding the latter in the up-side-down position to effect the discharge of the catchup from the container. The discharge is at first retarded by the congealed mass of catchup within the bottle neck allowing none or a very small quantity of catchup to be ejected from the bottle. Usually upon continued shaking of the container the retarding mass is ejected from the bottle neck and is followed suddenly by the discharge of the more fluid catchup in an indeterminate quantity greatly in excess of the requirement.

Important objects and advantages of the invention are to provide a dispensing device of the character described, which may be conveniently operated and controlled to discharge catchup from its bottle container in exact speed and in any desired quantities, which may be readily attached to position on the container top or removed from the latter, which is simple in its construction and arrangement, durable and efficient in its use, compact, sanitary, attractive in appearance, positive in its action, and comparatively economical in its manufacture and use.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts herein specifically described and illustrated in the accompanying drawing, but it is to be understood that changes in the form, proportions and details of construction may be resorted to that come within the scope of the claim hereunto appended.

In the drawing wherein like numerals of reference designate corresponding parts throughout the several views:

Figure 1 is a side elevational view, partly in cross-section, of a dispensing device constructed in accordance with the invention, and illustrating its connection with a bottle.

Figure 2 is a side elevational view of the rotating parts of the dispenser.

Figure 3 is a top plan view of the device with the cover cap removed therefrom. Referring in detail to the drawing 1 represents a bottle of the conventional type commonly employed for containing and marketing catchup and the like. The bottle includes the usual reduced neck 2 having an open, exteriorly threaded upper end 3.

The improved dispensing device comprises a circular top 4 formed with an annular attaching flange 5, which depends from the periphery of the top 4 and has a screw thread connection with the upper end 3 of the neck 2 for removably securing the device to the bottle 1. A centrally disposed, cylindrical bearing sleeve 6 is formed integral with the top 4 and depends from the latter to extend into the bottle neck 2.

A cylindrical discharge tube 7, open at both ends and providing a passage 8, is mounted in the bearing sleeve 6 and is frictionally revolvable in the latter. The lower end of the discharge tube carries an annular, integrally formed holding flange 9, which is disposed laterally outward and abuts against the lower end of the bearing sleeve to prevent the upward movement of the discharge tube in the bearing sleeve, as clearly illustrated in Figure 1.

The upper end of the discharge tube 7 projects above the top surface of the top 4. An annular operating collar 10 has detachable screw thread connection with the projecting upper end of the discharge tube, and is provided with a knurled outer surface to facilitate the operation of the device in the manner to be described.

The operating collar 10 seats on the top surface of the top 4, and is adjustable on the discharge tube 7 to assure a snug shiftable fitting engagement of the latter in the bearing sleeve 6. The removal of the operating collar from the discharge tube allows the removal of the discharge tube from the bearing sleeve for cleaning purposes or for any other purposes required.

A suitable feed screw 11 depends from a supporting rod 12, which is fixed in the wall of the discharge tube 7 and extends transversely through the passage 8. The feed screw extends into the bottle neck 2 and the upper end thereof is disposed within the passage 8 in spaced relation to the upper end of the latter.

A closure cap 13, including an annular depending connecting flange 14 having a screw thread connection 14 with the peripheral edge of the top 4, is provided for enclosing the upper outlet end of the discharge tube 7 when the device is not in use.
In practice the operation of the dispensing device is as follows: After removal of the closure cap 13, the bottle is tilted at an angle from the vertical to cause the catchup contents of the bottle to flow into the bottle neck 2. By the manipulation of the operating collar 10 the feed screw 11 is rotated, thereby disrupting and dislodging any set accumulations within the bottle neck and then feeding and uniformly discharging the contents through the discharge tube 7 in any quantity desired.

The present invention provides a most efficient device of its kind, which may be economically constructed, and conveniently employed for the purposes and in the manner herein set forth.

What I claim is:

A dispensing device for attachment to the top of a bottle neck, comprising the combination of a circular top member, an annular attaching flange formed integral with said member and having a screw thread connection with the top of the bottle neck, a centrally disposed bearing sleeve formed integral with said member and depending vertically from the latter, a discharge tube revolvably mounted in said sleeve, a laterally disposed annular flange formed integral with the lower end of said tube and abutting against the lower end of said sleeve for preventing the upward vertical movement of said tube in said sleeve, an operating collar having a detachable screw thread connection with the upper end of said tube and seated on the top of said member to facilitate the rotation of said tube in said sleeve and to prevent the downward vertical movement of said tube in said sleeve, a supporting rod secured to said discharge tube and extending transversely through the latter, and a closure cap having a screw thread connection with the peripheral edge of said member and enclosing said tube, and a comparatively short feed screw secured to and depending from said supporting rod to extend into the bottle neck.

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