

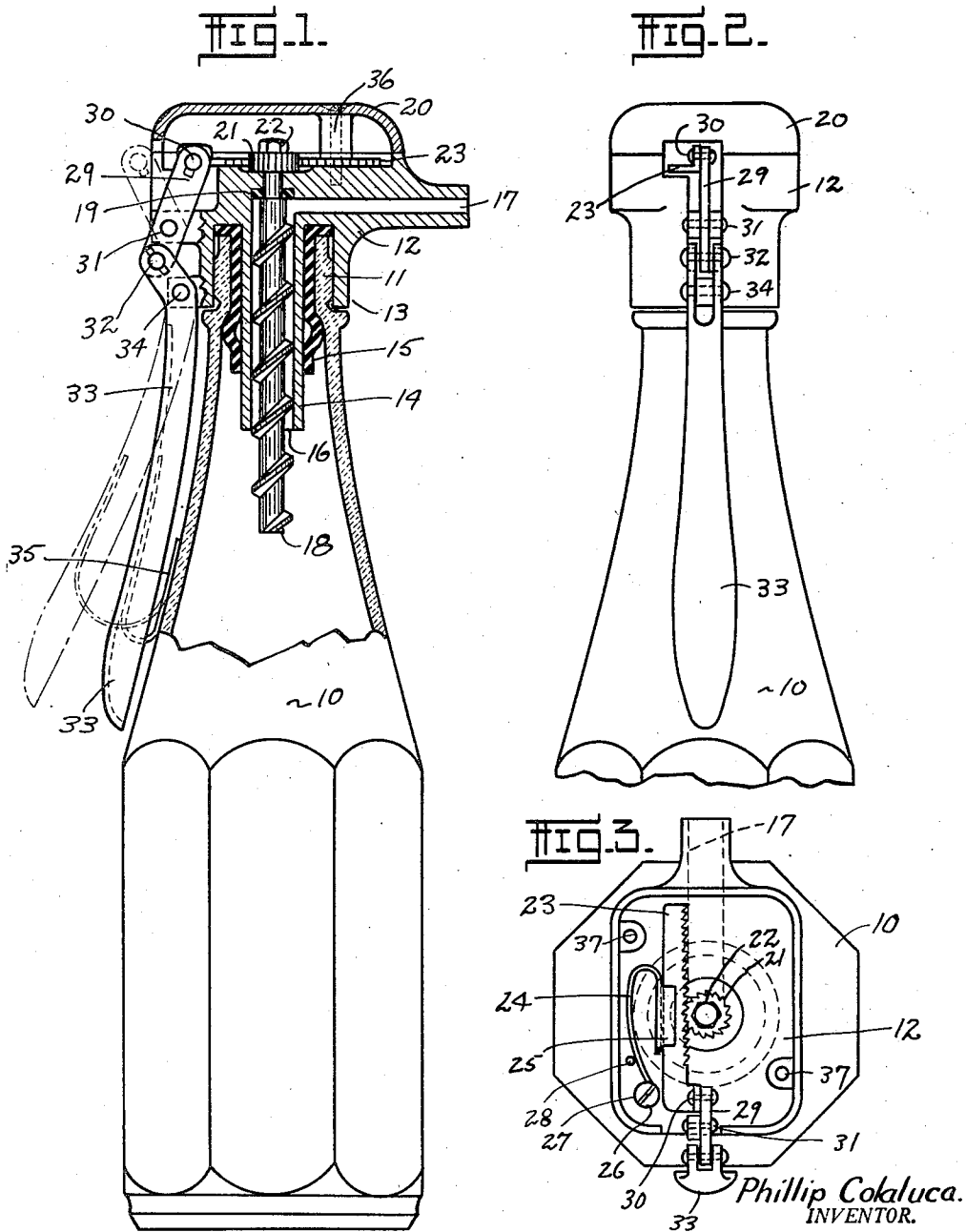
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KETCHUP DISPENSER

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KETCHUP DISPENSER

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2 Claims. (Cl. 215-3)

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This invention relates to a device for dispensing ketchup from conventional ketchup bottles.

The principal object of the invention is the provision of a dispensing device for use in connection with a ketchup bottle to efficiently dispense the ketchup therefrom.

A further object of the invention is the provision of a dispensing apparatus adapted for mounting on a conventional bottle.

A still further object of the invention is the provision of a dispensing device of simple construction and capable of economic manufacture.

The ketchup dispenser shown and described herein has been designed to provide a mechanism which may be conveniently employed in dispensing the contents of a ketchup bottle. It is well known that ketchup and similar tomato base sauces are commonly packaged in bottles, the neck portions of which are relatively small in comparison with the area comprising the bottle itself. It is also well known that the various tomato base sauces, such as ketchup and chili sauce, thus packed are frequently of a relatively thick consistency which makes it difficult to pour the same from the bottles in which they are packed. The present invention relates to a device which can be readily attached to a conventional ketchup bottle, for example, which operation will serve to forcefully remove the contents of the bottle therefrom. The ketchup dispensing device is so formed that it may be readily disassembled for cleaning and is provided with a convenient handle depending along one side of the bottle so that when the bottle is grasped in one hand by the user and the thumb used to move the handle this will cause the dispenser to deliver ketchup or chili sauce from the bottle upon which it is positioned.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a side elevation partly in cross section illustrating the ketchup bottle with the ketchup dispenser in position thereon.

Figure 2 is a side elevation of the ketchup bottle and dispenser illustrated in Figure 1, the bottle being turned 90 degrees.

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Figure 3 is a top plan view of the ketchup bottle and dispenser illustrated in Figure 1 illustrating the same with a cap portion thereof removed.

By referring to the drawings and Figure 1 in particular it will be seen that a conventional ketchup bottle is indicated by the numeral 10 and that its relatively narrow neck portion is indicated by the numeral 11. A dispensing device consisting of a body member 12 has been positioned on the neck 11 of the ketchup bottle 10 by means of a pair of annular depending flanges 13 and 14, the depending circular flange 13 being of a size to fit about the exterior of the bottle neck 11 and the depending annular flange 14 being of a size capable of positioning within the bottle neck 11. A flanged tubular gasket 15 is positioned within the area defined by the annular depending flanges 13 and 14 and serves to form a tight seal between the annular depending flange 14 and the interior of the neck 11 of the ketchup bottle 10. The flanged tubular gasket 15 is formed with an area of increased diameter adjacent its lowermost end, which area, of ring-like formation, serves to register with the interior of the bottle 10 immediately below the neck portion 11 thereof and effectively holds the dispenser body 12 on the neck portion 11 of the bottle 10. The interior of the depending annular flange 14 provides a channel for the passageway of the ketchup or chili sauce in the bottle 10 and this passageway is indicated in Figure 1 by the numeral 16. A horizontally positioned passageway 17 communicates with the passageway 16 at its uppermost end. It will be observed that a screw type conveyor 18 is positioned in the passageway 16 in a manner so that it registers therewith and so that upon its being rotated the ketchup or chili sauce in the bottle 10 will be forcefully moved through the passageway 16 and delivered by the dispenser through the passageway 17. Means for imparting rotating motion to the screw type conveyor 18 are provided and it will be observed by referring to Figures 1 and 3 of the drawings that the uppermost end of the screw type conveyor 18 passes through a suitable gland 19 in the body 12 and terminates above the uppermost surface thereof and beneath a removable cap 20. A pinion gear 21 is removably positioned on the uppermost end of the screw type conveyor 18 by means of a nut 22 and the pinion gear 21 is adapted to be rotated by means of an appropriately formed rack 23 which is slidably positioned adjacent the pinion gear 21 by means of a tensioning and positioning spring 24, one end of which is formed with

a channel 25 in which the rack 23 is adapted to slide and the other end of which is formed with an eye 26 so that it can be attached to the body 12 by means of a screw 27. A pin 28 in the body 12 serves to position the spring 24 in appropriate operating position so that it in turn holds the rack 23 in appropriate operating position with respect to the gear 21. The rack 23 is loosely pivoted to a lever 29 by means of a pivot pin 30 and the lever 29 is pivoted by means of a pivot pin 31 to an extension formed on the body member 12 of the dispenser. The opposite end of the lever 29 is loosely pivoted by means of a pivot pin 32 to the uppermost end of a handle 33 which is also pivoted by means of a pin 34 to an extension 15 formed on the body member 12. The lowermost end of the handle 33 extends downwardly alongside the bottle 10 to a position convenient to the thumb location of the user's hand. A spring 35 is affixed to the interior of the handle 33 and engages the side of the bottle 10 and serves to return the handle to a position away from the bottle 10, such position being indicated in broken lines in Figure 1.

Still referring to Figures 1 and 3 of the drawings, it will be observed that the rack 23 and the pinion gear 21 are so formed that the rack 23 will slide over the pinion gear 21 at such time as the spring 35 returns the handle 33 to a position away from the bottle 10, and that at such time as the handle 33 is moved toward the bottle, as by the thumb of the user's hand, the rack 23 will engage the pinion gear 21, rotate the same and hence rotate the screw type conveyor 18 in the bottle. In order that the rack 23 and the pinion gear 21 may be enclosed, the cap 20 is provided and is removably affixed to the body 12 of the dispenser by means of a plurality of bolts 36 which engage threaded openings 37 in the body member 12 of the dispenser.

It will thus be seen that a ketchup dispenser has been disclosed which may be conveniently attached to a ketchup bottle by simply moving the same into engagement with the neck portion thereof and that in such position on a ketchup bottle the contents of the bottle may be readily dispensed by the simple expedient of moving the handle 33 of the device which causes the screw type conveyor 18 thereof to forcibly eject the contents of the bottle through the passageways 16 and 17. It will be observed that the exterior portion of the body member 12 surrounding the passageway 17 has been extended so as to form a delivery spigot. It will thus be seen that a practical and efficient ketchup dispenser has been disclosed which may be inexpensively formed of

a relatively few parts and which, in operation on a ketchup bottle, will effectively dispense the semi-fluid contents therefrom.

Having thus described my invention, what I claim is:

1. A ketchup dispenser consisting of a body member having a distortable tubular member formed thereon insertable in and removable from the neck portion of a ketchup bottle, a passageway defined by said member and a delivery passageway in said body member in communication therewith, and a screw type conveyor rotatably positioned in said passageway and a rack and pinion gear for imparting movement to said screw type conveyor, and a handle pivotally connected to said rack for imparting movement thereto; a spring in said handle engaging said bottle and normally urging said handle away therefrom.

2. A ketchup dispenser consisting of a body member having a pair of tubular members depending therefrom, one of said tubular members being resilient and insertable in the neck of a ketchup bottle, the other member defining a passageway within said resilient member, a delivery passageway communicating with the exterior of the said device and with said passageway, means for moving ketchup through the said passageways, said means comprising a screw type conveyor rotatably positioned in said passageway, means for motivating the said screw type conveyor, said means including a gear on said conveyor shaft and a rack disposed adjacent thereto, and means for imparting movement to said rack, said means including a handle pivotally connected thereto, and a spring between said bottle and said handle normally urging the handle away therefrom.

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