Feb. 20, 1934. B. W. STRINGFELLOW 1,948,054

DISPENSING DEVICE

Filed July 5, 1932

FIG. 1.

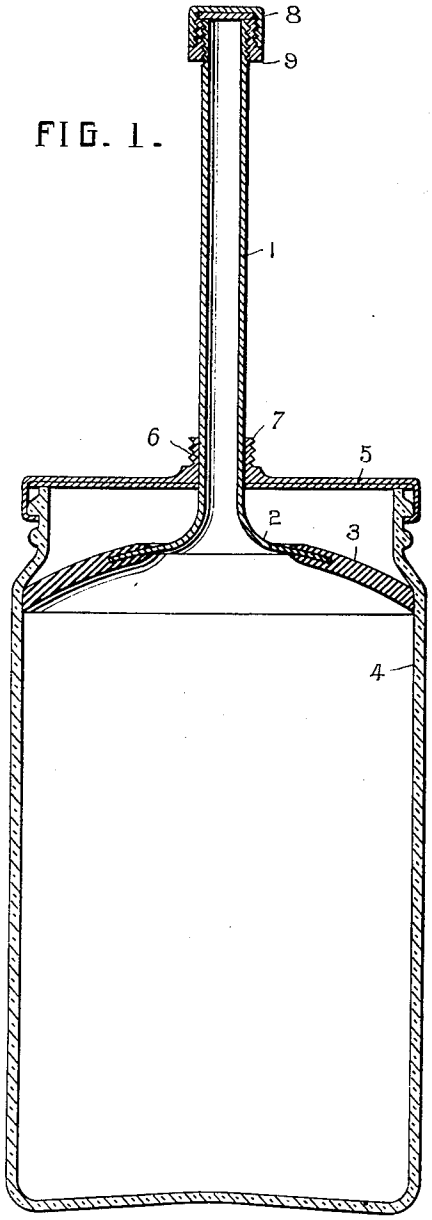


FIG. 4.

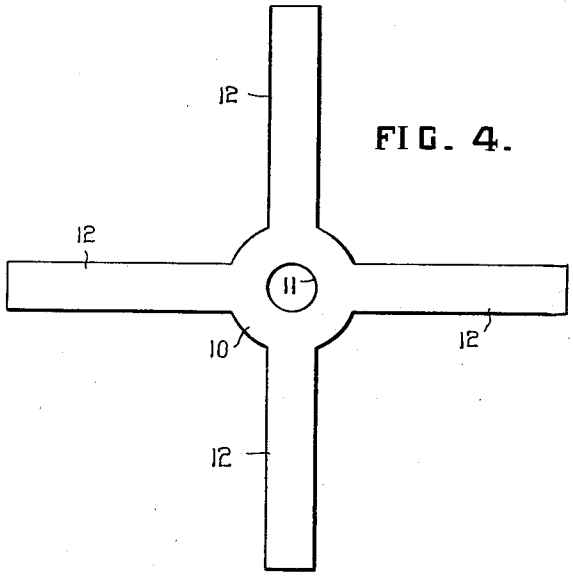


FIG. 2.

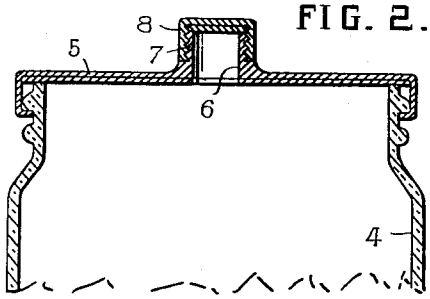
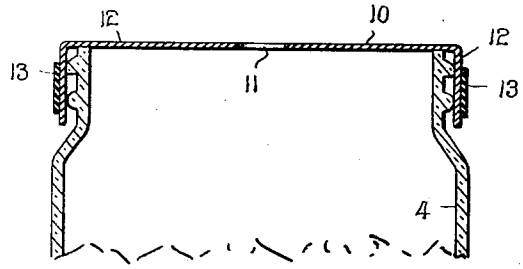


FIG. 3.



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UNITED STATES PATENT OFFICE

1,948,054

DISPENSING DEVICE

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Application July 5, 1932. Serial No. 620,913

2 Claims. (Cl. 221—78)

My invention consists in a new and useful improvement in dispensing devices and is designed to provide a device for ejecting fluid and semi-fluid substances from jars or bottles in which the substances are packed. The device is particularly intended to be applied to mustard and catsup jars so that the contents can be dispensed, in any desired amounts, without waste, and neatly and simply. The particularly novel feature of my device is the combination of its very few simple parts to form an ejecting mechanism for forcing out of the jar or bottle the desired quantity of the contents. Another novel and extremely useful feature of my device is the means which I provide for attaching my ejecting device to the jar or bottle with which it is to be used.

While I have illustrated in the drawing filed herewith and have hereinafter fully described one specific embodiment of my invention, it is to be distinctly understood that I do not consider my invention limited to said specific embodiment but refer for its scope to the claims appended hereto.

In the drawing:

Fig. 1 is a vertical section of my device in operative position in a jar.

Fig. 2 is a vertical section of the cap of the jar before my device is applied to the jar.

Fig. 3 is a vertical section of the top portion of the jar with a skeleton cap applied to the jar.

Fig. 4 is a plan view of the skeleton cap.

My improved device, as illustrated in the drawing, has a tube 1 formed at its lower end in a funnel head 2 on which is received a circular gasket 3 which presses outwardly against the wall 4 of the jar. I provide a screw cap 5 for the jar having the opening 6 for passage of the tube 1 therethrough, and surrounded by the threaded flange 7 on which may be screwed the cap 8. The upper end of the tube 1 is threaded to receive the exteriorly threaded bushing 9, after the tube 1 has been inserted through the opening 6. The cap 8 may be applied to the bushing 9 to cover the upper end of the tube 1, as shown in Fig. 1.

For applying my device to jars not provided with caps 5 for use with my device, I provide a skeleton cap consisting of the guide collar 10 having the central orifice 11 and a series of flexible fingers 12. As illustrated in Fig. 3, this skeleton cap may be applied to jars of various sizes by bending downwardly the fingers 12 over the lip of the jar and fastening them by means of any suitable form of elastic band 13. The tube 1 is passed through the orifice 11 before the cap is applied to the jar.

From the foregoing description of the details of construction of my device, its use and operation will be obvious. If my device is supplied at the time of the sale of the product, the jar will be provided with my improved cap 5, the tube 1 inverted inserted in the jar, the head 2 resting upon the upper surface of the substance in the jar, protected therefrom by a layer of wax paper, and the gasket 3 may be attached to the upper surface of the cover 5. Thus it is apparent that my device can be satisfactorily supplied to the purchaser with the jar. When it is desired to provide the jar with my dispensing device, the cover 5 is removed from the jar and the cap 8 is removed from the cover 5. The tube 1 is then inserted through the opening 6 of the cover 5, and the gasket 3 applied to the head 2. My ejecting device is then inserted into the jar, the flexible gasket 3 being compressed to pass through the constricted upper throat of the jar and allowed to press outwardly against the wall 4 of the jar. The cover 5 may then be replaced upon the jar and the cap 8 may be screwed upon the bushing 9 which is screwed upon the upper end of the tube 1 after the tube 1 has been placed through the cover 5.

When it is desired to dispense the substance from the jar, the cap 8 is removed and downward pressure of the tube 1 causes the substance to be forced by the head 2 and gasket 3 upwardly through the tube 1, to be ejected from the upper open end of the tube 1. As none of the substance can escape about the gasket 3 by reason of its outward pressure against the wall 4 of the jar, the cover 5, its opening 6 and the entire upper portion of the jar is thoroughly protected from any contact with the substance and so no leakage or loss of the substance can occur.

If my device is not supplied with the jar at the time of sale of the product, my device is provided with the skeleton cover shown in Figs. 3 and 4, in which case the ordinary cover of the jar is removed and discarded, and my improved skeleton cover can be attached to the jar, as illustrated in Fig. 3, after the tube 1 has been inserted as above described.

Thus it is apparent from the foregoing that I have provided an ejecting device which may be supplied by the purveyor of the packed substance, or which may be obtained by the user of the substance and utilized with any ordinary packed jar or bottle.

Having described my invention, what I claim is:

1. In an ejecting device for a container, the

combination of a cover for the container having a centrally disposed orifice surrounded by a threaded flange, a tube slidable through said orifice; a gasket on the lower end of said tube pressed outwardly against the wall of the container; a threaded bushing threaded on the upper end of said tube; and a cap alternatively screwed upon said flange and said bushing.

2. In an ejecting device for a container, the combination of a cover for the container having a centrally disposed orifice surrounded by a threaded flange; a tube slidable through said orifice and provided upon its lower end with a circumferential flange; a gasket pressed outwardly against the wall of the container, mounted upon the last mentioned flange; a bushing threaded upon the upper end of said tube, and having exterior threads corresponding with the threads of the flange about the cover orifice; and a cap interiorly threaded and adapted to be screwed upon the flange on the cover, and the bushing, alternatively.

BRUCE W. STRINGFELLOW.