Oct. 7, 1952 M. E. TAYLOR ET AL 2,613,012

SAFETY SEALING DEVICE FOR REFILLABLE CONTAINERS

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Fig. 1.

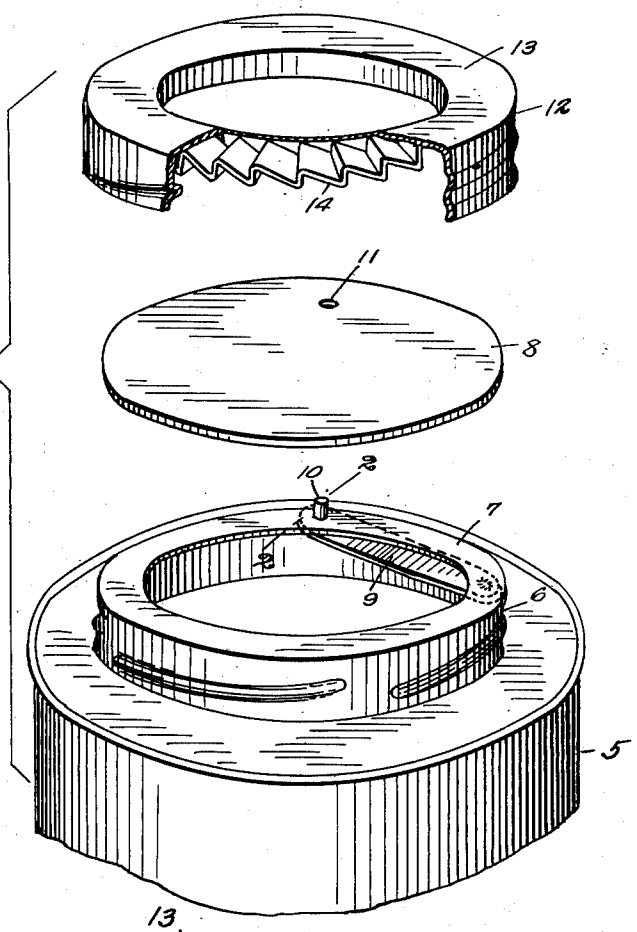
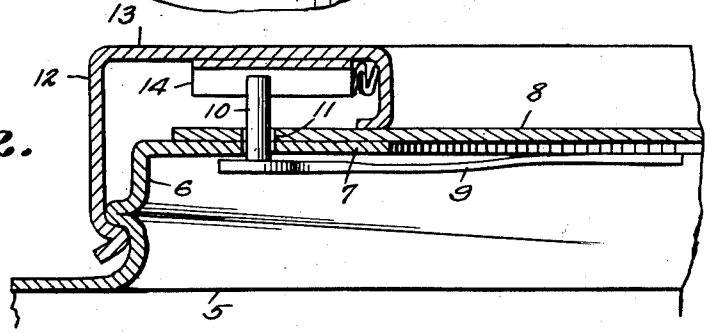


Fig. 2.



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SAFETY SEALING DEVICE FOR REFILLABLE CONTAINERS

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2 Claims. (Cl. 220—27)

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This invention relates to containers or cans especially designed for containing lubricating oils, the primary object of the invention being to provide a container of this character which will prevent removal of the contents of the container without mutilating the seal thereof, thereby indicating that the container has been opened or tampered with, by unauthorized persons.

A further object of the invention is to provide a container having a removable closure ring, sealed by means of a perishable disc which may be readily replaced when the lubricant in the container has been removed and the container has been refilled for further use.

Still another object of the invention is to provide a closure ring used in securing the sealing disc in position, which may be rotated in a clockwise direction to secure the sealing disc, but prevented from reverse movement to remove the contents of the container without destroying the sealing disc.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Fig. 1 is a disassembled view illustrating an oil container with a cap, constructed in accordance with the invention.

Fig. 2 is a sectional view taken on line 2—2 of Fig. 1 when the elements 12, 8 and 6 are in assembled condition.

Referring to the drawing in detail, the container comprises a body portion indicated generally by the reference character 5 and in the present showing is in the form of a can with a neck 6 rising therefrom.

The neck 6 is formed with an inwardly extended annular flange 7 which provides a support for the seal disc 8 which is constructed preferably of perishable material so that when the disc is mutilated the contents of the container may be poured therefrom.

Secured to the inner surface of the flange 7, is the spring arm 9 to which the pin 10 is secured, the pin 10 extending through an opening formed in the flange 7, as clearly shown by Fig. 1 of the drawing. The seal disc 8 is also provided with an opening indicated at 11, which opening

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is adapted to be positioned over the pin 10, so that the pin 10 may extend therethrough, securing the seal against rotation on the flange 7.

The neck 6 is formed with threads that cooperate with threads of the closure ring 12, which is provided with the inwardly extended annular flange 13, to the under side of which is secured the ratchet ring 14 which has its teeth so disposed that they contact the upper end of the pin 10, permitting rotation of the closure ring 12 in a clockwise direction, but preventing rotation of the closure ring 12 in an anti-clockwise direction, thereby making it impossible to remove the ring 12 until the pin 10 has been forced inwardly to disengage the teeth of the ratchet ring 14, and since this can only be done after the seal disc has been mutilated, it will be obvious that removal of the contents of the container by an unauthorized person will be readily detected.

After the contents of the container have been removed and the container is refilled for further use, another seal disc 8 is positioned on the flange 7 and the closure ring rotated in a clockwise direction to clamp the disc in position, sealing the mouth of the can.

As previously stated, to remove the contents of the can, the disc 8 must be mutilated, which mutilation of the disc will afford access to the spring arm 9, which may be forced inwardly to allow the closure ring to be rotated in an anti-clockwise direction to remove the closure ring and permit of the application of another seal disc to seal the container when it is refilled for further use.

From the foregoing it is believed that the construction and operation of applicants' sealing device for refillable containers will be clear and that further description of the container is unnecessary.

Having thus described the invention, what is claimed is:

1. In a refillable container, a body, a threaded neck forming a part of the body, an annular flange extending inwardly from the top edge of the neck, a spring pressed lock pin extending upwardly through said flange, a perishable seal disc positioned on said flange closing the container, said seal disc having an opening through which the locking pin extends, a removable closure ring rotatable in a clockwise direction mounted on the neck in contact with said disc, ratchet teeth on the closure ring cooperating with said pin normally preventing reverse rotation of said closure ring to remove said ring and seal disc, and said

pin adapted to be moved out of engagement with said ratchet teeth, releasing said ring for reverse rotation, upon mutilation of said disc.

2. In a refillable container, a body, a neck forming a part of the body, said neck having external threads, an inwardly extending annular flange formed on the top edge of the neck, a spring pressed pin supported by said flange extending upwardly through an opening in said flange, a perishable sealing disc resting on said flange, said sealing disc having an opening through which the pin extends, a closure ring threaded on the neck adapted to clamp said seal disc against said flange, and a ratchet ring secured to the ring engageable with said pin permitting rotation of the closure ring in one direction and restricting rotary movement of the closure ring in the opposite direction.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
590,908	Pendleton, Jr.	Sept. 28, 1897
727,808	Knowlton	May 12, 1903
2,054,034	Conner et al.	Sept. 8, 1936
2,099,097	Beider et al.	Nov. 16, 1937
2,153,426	McNamara et al.	Apr. 4, 1939
2,153,427	Fleisch et al.	Apr. 4, 1939