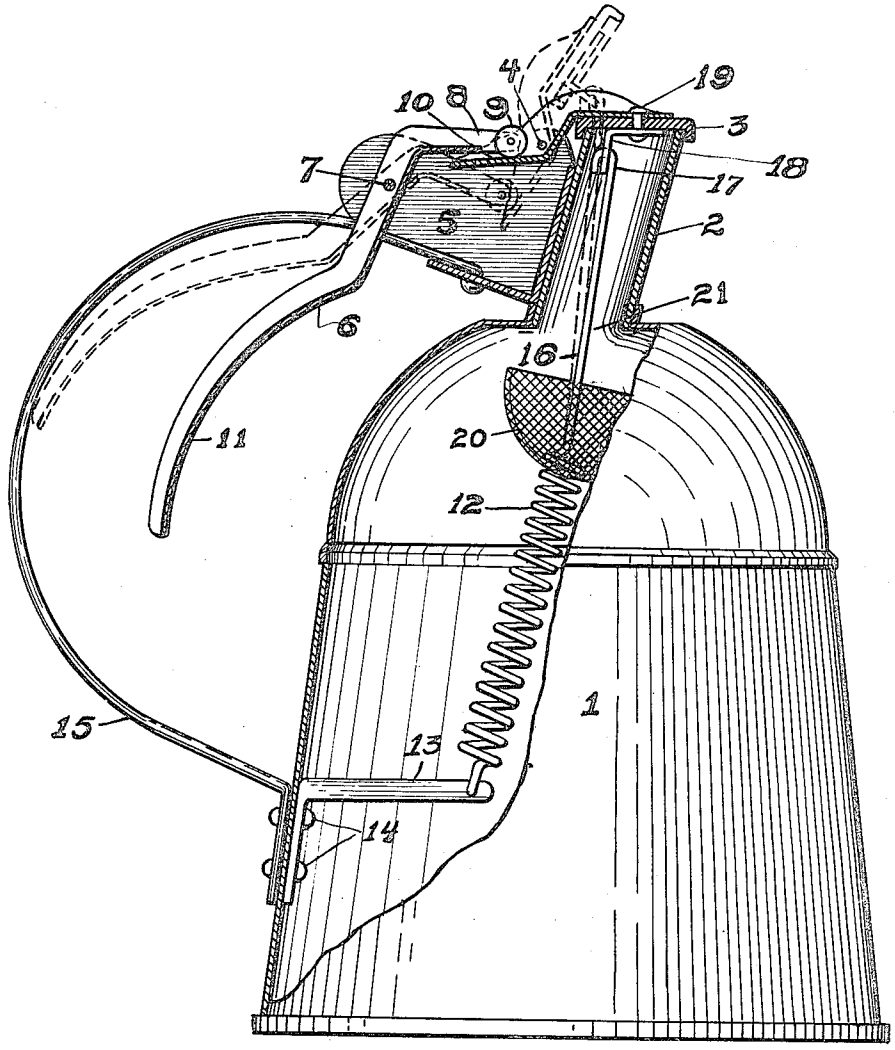
A. L. HANSEN.

SAFETY OIL CAN.

APPLICATION FILED SEPT. 5, 1913.

1,241,511. Patented Oct. 2, 1917.



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SAFETY OIL-CAN.

1,241,511. Specification of Letters Patent. Patented Oct. 2, 1917.

Application filed September 5, 1913. Serial No. 788,230.

To all whom it may concern:

Be it known that I, AUGIE L. HANSEN, a citizen of the United States, residing at Evanston, county of Cook, and State of Illinois, have invented a certain new and useful Improvement in Safety Oil-Cans, of which the following is a specification.

My invention relates to that class of devices which are designed to furnish mechanism to automatically close the opening into the can containing the fluid when it is not being either used for the purpose of filling, or taking the liquid out of it.

My invention has for its object to provide a mechanism which will be simple in its construction, which will also greatly decrease the expense of manufacturing, and has for its further object to provide a container having but a single opening, in which means are provided in the opening for the exit of the air when the can is being filled.

My means of accomplishing the foregoing may be more readily understood by having reference to the accompanying drawings, which are hereunto annexed and are a part of this specification, in which:

The figure given is a side elevation of a can constructed in accordance with my improvement, a part of the exterior wall being broken away to show the interior construction.

Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawings, the can comprises a body 1, which is provided with a spout 2, having an opening through it. This spout is closed by a cap or cover 3, which is hinged upon a pin or pivot 4 mounted in the side walls of a support 5, which is preferably stamped out of sheet metal and is riveted or soldered to the outer wall of the spout 2.

A lever 6 is provided for opening the cap 3. This lever is pivotally mounted on a pin or pivot 7, the ends of which are likewise secured in the side walls of the support 5. The end 8 of this lever is provided with a roller 9, which is adapted to contact with and roll upon the surface of the outwardly extending portion 10 of the cap 3.

The lever 6 is provided with a finger gripping portion 11, which is of suitable size and shape to be readily grasped by the user of the can. A coil spring 12 is located inside of the can and is secured to a bracket, which is secured to the side walls of the can by means of rivets 14, the same rivets being utilized to secure the handle 15 to the can. The coil spring 12 is provided with a straight portion 16, which extends upwardly, and terminates in a hook 17, which is adapted to engage a hole formed in a lug 18, which depends downwardly from the cap 3, and is secured thereto by means of a rivet 19, or in any other desired manner.

A wire gauze 20, which is cup-shaped in form, is secured to the coil spring 12 at the upper end of the coil, and is adapted to close the entrance 21 to the spout 2 all of the time that the cap 3 is open, thus effectually preventing the ignition of the explosive liquid by means of a flame.

The straight portion 16 of the coil spring serves a double purpose. It not only furnishes convenient means of attaching the coil spring to the cap for the purpose of holding the latter shut, but when the cap is opened, and a funnel inserted in the spout 2, the straight part 16 of the coil spring 12 prevents the edge of the funnel spout from contacting with the side walls of the spout 2, thus providing on each side of it an exit for the escape of the air as the liquid is poured into the can.

The operation of the device is as follows:

The operator grasps the finger hold 11 and lifting it to the position indicated by the dotted lines, causes it to elevate the cap 3 to the position shown in the dotted lines. This result, it will be observed, is accomplished through the action of the roller 9 upon the outwardly extending portion 10 of the cap 3. It will be noted that at the time that this movement starts, the roller 9 is located in juxtaposition to the pivot 4. A slight movement of the lever 6 causes the roller 9 to pass a center line drawn between the pivot 4 and the pivot 7, thereby removing the greatest amount of resistance against the further opening of the cap, while the continued movement of the lever 6 causes the roller to move away from the pivot 4, whereby the leverage is increased in proportion as additional strength is required to extend the coil spring 12.

The result of this construction is that while it is comparatively easy for the operator to open the can, upon releasing the lever 6, the roller starts upwardly along the surface of the outwardly extending mem-

ber 10, but upon reaching the center line between the two pivotal points, it moves very rapidly, so that the cover closes with a snap, which always insures the tight seating of the cap against the top of the spout 2, effectually closing it and preventing any leaks.

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

1. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a pivoted lever having a roller mounted on one end thereof which engages the said outwardly extending portion adjacent the pivot, and a coil spring located within said can connected to and adapted to hold said cap closed.

2. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a pivoted lever having a roller mounted on one end thereof which engages the said outwardly extending portion in juxtaposition to the pivot when said cap is closed but which moves away therefrom as the cap opens whereby the leverage of the lever is increased, and a spring located within the can connected to said cap to hold said cap normally in a closed position.

3. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a spring located in said can which holds the cover normally in a closed position, a pivoted lever having a roller at one end which engages said outwardly extending portion, so arranged that the release of the lever by the operator will cause the spring to close the cap with a snap.

4. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a pivoted lever having a roller mounted on one end thereof which engages the said outwardly extending portion adjacent the pivot, a coil spring located within said can adapted to hold said cap closed, the upper end of said spring being formed in a straight portion terminating in a hook, a lug on said cap engaged by said hook, said straight portion extending through the opening when the cap is open.

5. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a spring located in said can which holds the cover normally in a closed position, a pivoted lever having a roller at one end which engages said outwardly extending portion, so arranged that the release of the lever by the operator will cause the spring to close the cap with a snap, a cup formed of wire gauze carried by said spring, which cup automatically closes the opening whenever the cap is open.

6. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extending portion, a pivoted lever having a roller mounted on one end thereof which engages the said outwardly extending portion adjacent the pivot, a coil spring located within said can adapted to hold said cap closed, the upper end of said spring being formed in a straight portion terminating in a hook, a lug on said cap engaged by said hook, said straight portion extending through the opening when the cap is open, a cup formed of wire gauze carried by said spring which automatically closes the opening whenever the cap is open.

7. The combination with a can having a single nozzle, of a closure for one end of said nozzle, means within the can for engaging the closure for moving the closure in one direction, and a guard supported by the means and movable therewith for closing the opposite end of the nozzle when the closure is moved to an open position.

8. The combination with a can having a single opening, of a pivoted cap closing said opening, said cap having an outwardly extended portion, a pivoted lever which engages said outwardly extended portion adjacent the pivot, and a coil spring adapted to hold said cap normally in a closed position.

9. The combination with a can having an opening, of a pivoted cap closing said opening, said cap having an outwardly extended portion, a spring which holds the cap normally in a closed position, a pivoted lever which engages said outwardly extended portion, so arranged that the release of the lever by the operator will cause the spring to close the cover with a snap.

10. An oil can having a body, a spout connected thereto, ears mounted upon said spout, a cover for said spout mounted in said ears, and having an extension, and a lever also mounted in said ears and having a shoulder, whereby when said lever is raised said shoulder contacts with said extension to raise said cover.

11. An oil can having a body, a spout connected thereto, ears mounted upon said spout, a cover for said spout mounted in said ears and having an extension, a lever also mounted in said ears and having a shoulder, whereby when said lever is raised, said shoulder contacts with said extension to raise said cover, and a spring to hold said cover normally in a closed position.

12. An oil can having a body, a spout connected thereto, ears mounted upon said spout, a cover for said spout pivoted in said ears and having an outwardly extended portion, a lever also pivoted in said ears and

having a shoulder whereby when said lever is raised, said shoulder contacts with said extension to raise said cover, and a guard for the inner end of said spout formed of foraminated material.

13. The combination with a can having a spout, of a pivoted cap for the outer end thereof, said cap having a laterally extending shelf, a lever engaging at its inner end with said shelf close to the cap pivot when the cap is closed, said lever being so pivoted that when its other end is swung outwardly its inner end will move away from the cap pivot to increase the leverage of the lever to facilitate opening of the cap, and spring means tending to resist such opening.

14. The combination with a can having a spout, of a grip loop secured to the can body, a pivoted cap for the spout outlet having a lateral extension, a lever pivoted at an intermediate point with its inner end engaging with said projection outside of the cap pivot point, the inner end of said lever extending into said grip loop to coöperate therewith to form a yielding handle for receiving the palm and fingers of the hand, squeezing of the handle causing said lever to swing and to bring its inner end into pressure engagement with said cap extension to swing said cap to open position, and spring means for resisting such opening.

In witness whereof I have signed the foregoing specification.

AUGIE L. HANSEN.

Witnesses:
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