Sept. 22, 1931. J. R. MILLER 1,824,290

CAN PUNCH AND COVER

Filed Jan. 14, 1930

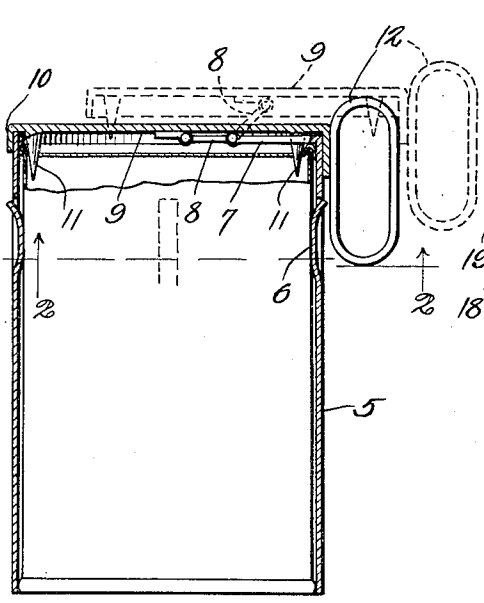

Fig. 1.

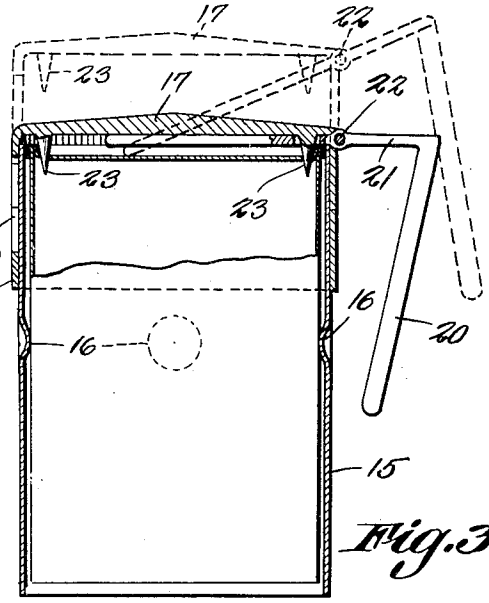

Fig. 3.

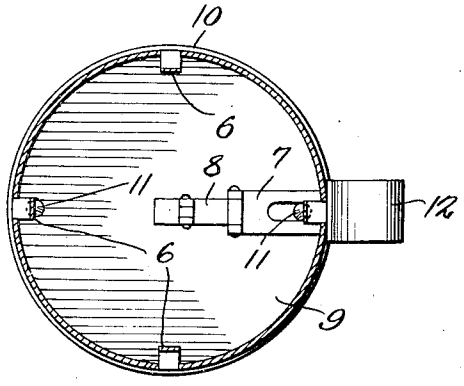

Fig. 2.

Fig. 4.

J. R. Miller
Inventor

By C. A. Snow & Co.
Attorneys.

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UNITED STATES PATENT OFFICE

JOHN R. MILLER, OF BALDWIN PARK, CALIFORNIA

CAN PUNCH AND COVER

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This invention has reference to a combined can punch and cover especially designed for use in connection with cans containing milk, the construction of the device being such that the cover will be supported on the can until the contents of the can have been exhausted.

An important object of the invention is to provide a device of this character which will prevent clogging of the openings which have been punched in the can, to the end that the contents of the can may be readily poured from the openings.

A further object of the invention is to provide a can cover having prongs to punch openings in the end of the can on which the cover is positioned, means being provided for exerting a pressure on the cover to force the prongs into the can, the pressure exerting means acting as a handle for swinging the cover to its active or inactive position.

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, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawings:

Figure 1 is a longitudinal sectional view through a can cover constructed in accordance with the invention, the same being shown as positioned over a can.

Figure 2 is a sectional view taken on line 2—2 of Figure 1, the can having been removed.

Figure 3 is a longitudinal sectional view through a modified form of cover.

Figure 4 is a longitudinal sectional view through a further modified form of cover.

Referring to the drawings in detail, the device comprises a cylindrical body portion indicated generally by the reference character 5, the ends of the body portion being open so that the body portion may be readily positioned over a can.

Spring fingers indicated at 6 extend inwardly from the body portion and frictionally contact with the can over which the body portion is positioned, to hold the can within the body portion.

Extending inwardly from the upper end of the body portion, is an arm 7 to which the link 8 is pivotally connected, the link 8 being also pivotally connected to the cover 9 to the end that the cover may swing upwardly and rearwardly to a position as shown in dotted lines in Figure 1, allowing the material or contents of the can, to be poured from the opening in the can cover. The cover is circular in formation and provided with a circumferential flange 10 to fit down over the upper end of the body portion to cover the can supported therein.

Prongs 11 extend downwardly from the cover 9, and are disposed in such positions that when pressure is directed to the cover, the prongs will pierce the end of the can, positioned in the body portion, and provide openings to permit the pouring of the contents from the can.

A handle indicated at 12 is secured to the cover and may be gripped by the operator to operate the cover to raise or lower the cover.

In the form of the invention as illustrated by Figure 3 of the drawings, the body portion is indicated by the reference character 15, and is formed with depressions in the side thereof, the depressions defining bosses 16 to contact with the can positioned in the body portion to hold the can against displacement.

At the upper end of the body portion is a cover 17 that is provided with a wide depending flange 18 to grip the upper end of the body portion. An opening 19 is formed in the front portion of the flange 18, to provide a pouring opening, so that when the cover is moved to a position as shown in

dotted lines, the contents of the can may be poured through the opening.

The handle is indicated by the reference character 20 and includes an arm 21 pivotally connected with the cover 17, at 22, the forward end of the arm 21 being free and located with such respect to the end of the can, that the inner end of the arm will contact with the end of the can upon upward movement of the handle, forcing the cover away from the end of the can.

Piercing prongs 23 extend from the cover and are adapted to punch holes in the end of the can, when the cover is forced downwardly onto the can.

In the form of the invention as shown by Figure 4, the body portion includes a circular flanged base 24 in which the can to be supported by the device is positioned. Extending upwardly from the base, is an arm 25 which is slightly curved to conform to the shape of the can positioned on the base 24.

At the upper end of the arm 25, are curved arms 26 that have their outer ends curved slightly outwardly at 27 to permit the arms to be readily positioned around the upper end of a can.

The cover which is indicated by the reference character 28, is hingedly connected to the arm 25, at 29, and is provided with prongs 30 adapted to be forced into the end of the can held in the body portion, to pierce the end of the can and provide openings.

Pivotally connected to the cover 28, is an arm 31 to which the handle 32 is connected, the arm 31 being of a length so that it will extend beyond the cover, to the end that when the handle 32 is pressed downwardly, the cover will be swung to the position as shown in dotted lines, allowing the contents of the can to be poured therefrom.

From the foregoing it will be seen that due to the construction shown and described, a can containing milk may be positioned in the body portion and the cover forced downwardly punching holes in the cover to allow the contents of the can to be poured therefrom. It will further be seen that after the pouring operation, the cover will act to close the end of the body portion and the prongs will enter the openings to clean the openings and prevent the material from clogging the openings.

I claim:

1. A can holder comprising a body portion, a cover at one end of the body portion, prongs extending from the cover and adapted to pierce the end of the can held in the body portion, said cover having a circumferential flange formed with an opening to permit material to be poured from the can, and a handle connected with the cover for operating the cover.

2. A can holder comprising a body portion, a cover slidably mounted on the upper end of the body portion, said cover having a discharge opening, an arm pivotally connected with the cover and having one end thereof disposed between the cover and top of the can positioned in the body portion, and a handle on one end of the arm for moving the arm to force the cover upwardly, and prongs carried by the cover for forming openings in the can.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

JOHN R. MILLER.