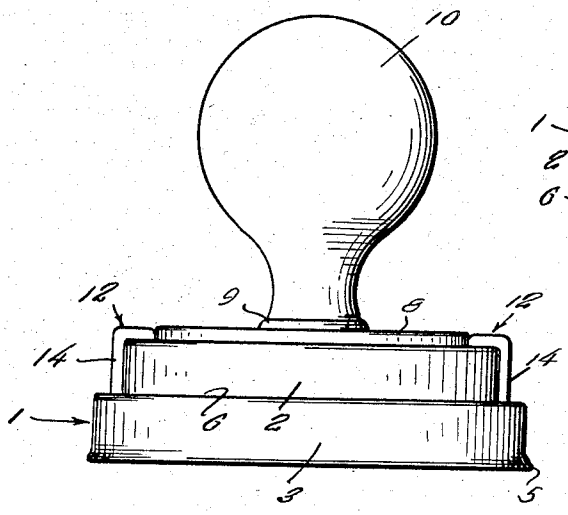
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CAN OPENER

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Fig. 1.



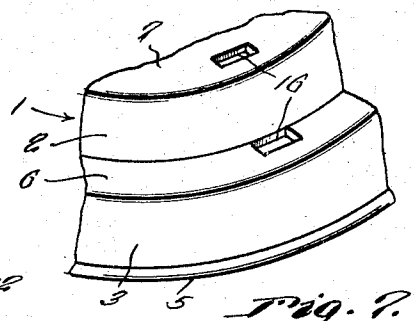


Fig. 7.

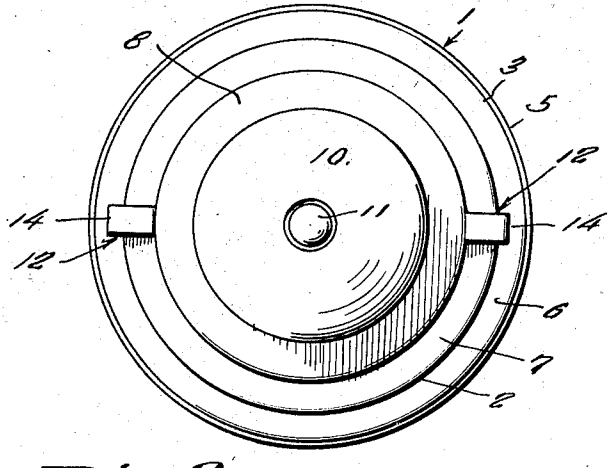


Fig. 2.

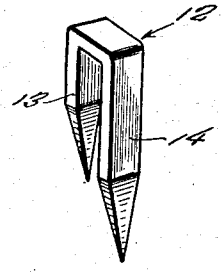


Fig. 8.

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Fig. 3.

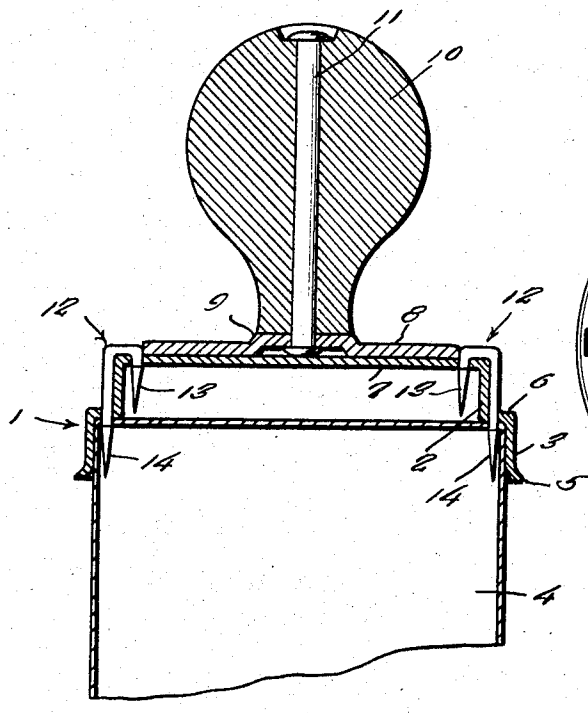


Fig. 5.

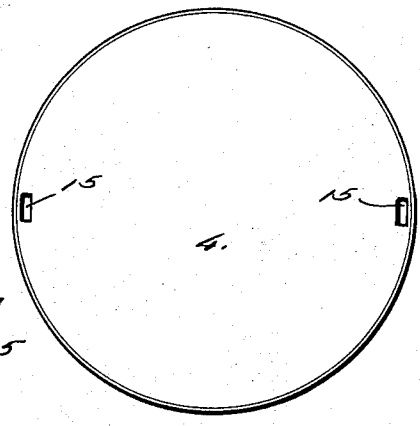


Fig. 6.

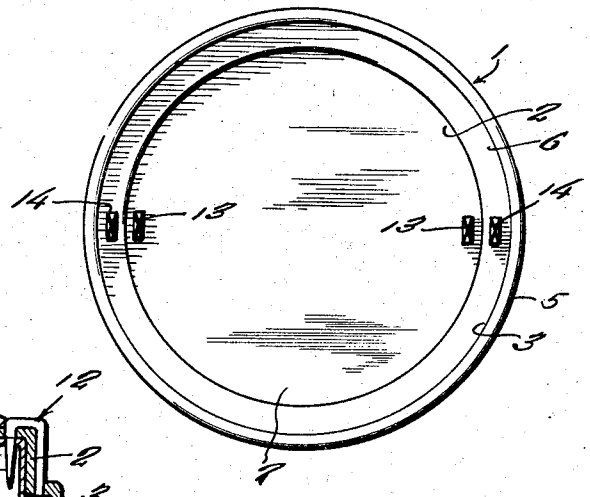
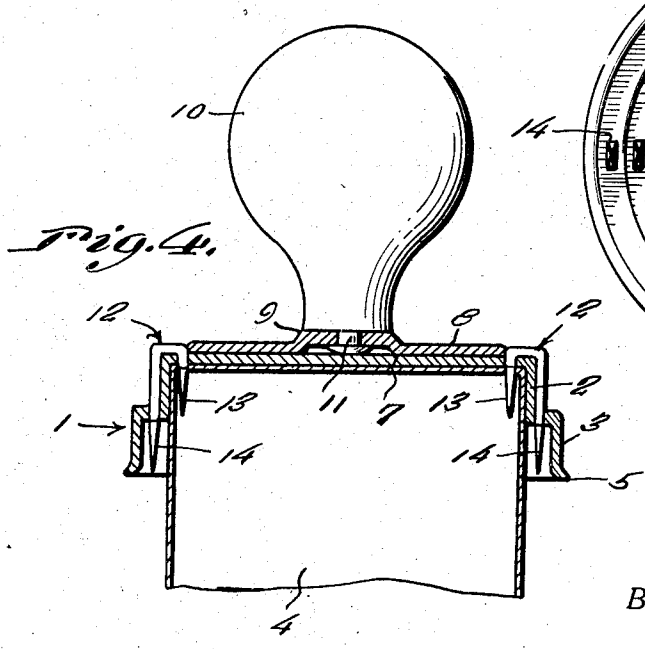


Fig. 4.



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2,111,022

CAN OPENER

Frank R. Daily, Sycamore, Ill.

Application January 9, 1937, Serial No. 119,864

3 Claims. (Cl. 30—16)

The present invention relates to new and useful improvements in can openers and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character which is adapted to form two spaced holes or openings in the top of a can, one for pouring and the other to vent the can.

Another important object of the invention is to provide an opener of the aforementioned character which is adapted for use on different sizes of cans.

Still another very important object of the invention is to provide a can opener of the character described comprising punches of a novel construction.

Other objects of the invention are to provide a can opener which will comparatively simple in construction, strong, durable, highly efficient and reliable in use, safe, compact, attractive in appearance and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is an elevational view of a can opener constructed in accordance with the present invention.

Figure 2 is a top plan view thereof.

Figure 3 is a vertical sectional view, showing the device engaged with a large can.

Figure 4 is a vertical sectional view, showing the device engaged with a comparatively small can, the handle being shown in side elevation.

Figure 5 is a top plan view of a can after it has been opened with the device.

Figure 6 is a view in bottom plan of the invention.

Figure 7 is a perspective view of a portion of the cap or guide.

Figure 8 is a detail view in perspective of one of the piercing elements.

Referring now to the drawings in detail, it will be seen that the embodiment of the invention which has been illustrated comprises a cap of suitable metal which is designated generally by the reference numeral 1. The cap 1 includes comparatively small and large upper and lower portions 2 and 3, respectively, for the reception of different sizes of cans, as at 4, as illustrated to advantage in Figs. 3 and 4 of the drawings. The cap 1 is flared at its bottom, as at 5, to facilitate mounting said cap on the can to be opened. The enlargement 3 provides a horizontal shoulder 6 at an intermediate point in the cap 1 for engagement with the tops of cans of the larger size.

Rigidly secured, as by welding, to the top 7 of the cap 1 is a metallic disk or base 8, the periphery of which is spaced inwardly from the periphery of said cap. The disk 8 includes a raised central portion 9 on which a handle 10 of suitable material, preferably wood, is secured by an elongated rivet or the like 11. It will be observed that the handle securing element 11 is anchored in the raised central portion 9 of the disk 8.

Rigidly secured on diametrically opposite sides of the cap 1, as by welding, are substantially U-shaped piercing elements which are designated generally by the reference numeral 12. The elements 12 include comparatively short inner prongs 13 which project downwardly into the small upper portion 2 of the cap 1 through the top 7 of said cap. It will be noted that the prongs 13 are spaced inwardly from the walls of the upper portion 2 of the cap 1. The elements 12 further include comparatively long outer prongs 14 which project downwardly into the comparatively large lower portion 3 of the cap 1 through the shoulder 6. It will also be observed that the prongs 14 are spaced inwardly from the walls of the portion 3 of the cap 1.

It is thought that the manner of using the device will be readily apparent from a consideration of the foregoing. The cap 1 is positioned on top of the can to be opened with the prongs 13 or 14 resting on the top of said can. Sufficient downward force is then exerted to cause the prongs 13 or 14 to penetrate the can, thus forming openings 15 (see Fig. 5) in the top of said can adjacent diametrically opposite sides thereof. The opener may then be removed to permit the milk or other commodity to be poured from the can. Of course, one of the openings 15 functions as a vent for the can while the milk or other commodity is poured from the other of said openings 15. If desired, the device may be replaced in position on the can with the prongs engaged in the previously formed openings 15 for covering and closing said can. The cap 1 functions as a guide for the piercing elements 12. Comparatively large cans are received in the lower portion 3 of the cap 1 and are penetrated by the prongs 14 and cans of the smaller size are received in the upper portion 2 of the cap 1 to be penetrated by the prongs 13. The openings in the cap 1 which accommodate the prongs

13 and 14 of the elements 12 are shown in Fig. 7 of the drawings and are designated by the reference numeral 16.

It is believed that the many advantages of a can opener constructed in accordance with the present invention will be readily understood and although a preferred embodiment of the device is as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A can opener comprising a cap including comparatively small and large upper and lower portions, respectively, for the reception of cans of different sizes, said cap further including a substantially flat top, a disk fixed on the top of the cap and spaced inwardly from the periphery of said cap, said disk comprising a raised central portion, a handle fixed on said raised central portion, and piercing elements fixed on the cap for puncturing the cans, said piercing elements being substantially U-shaped and including inner prongs projecting downwardly into the comparatively small upper portion of the cap through the top thereof and further including comparatively long outer prongs projecting downwardly into the comparatively large lower portion of the cap through the upper portion thereof.

2. A can opener of the class described comprising a cap including a substantially flat top and further including comparatively small and large upper and lower portions, respectively, for the reception of cans of different sizes, said cap still further including a horizontal shoulder between the upper and lower portions thereof, a disk fixed on the top of the cap and having its periphery spaced inwardly from the periphery of said cap, said disk including a raised central portion, a knob mounted on said raised central portion, and substantially U-shaped piercing elements fixed on the cap outwardly of the disk, said piercing elements including inner prongs projecting downwardly into the upper portion of the cap through the top thereof and further including comparatively long outer prongs projecting downwardly into the comparatively large lower portion of the cap through the shoulder, said cap constituting a guide for the prongs.

3. A can opener comprising a disk, a piercing element comprising two pointed legs, one shorter than the other, the shorter leg extending through an opening in the disk, a circular flange depending from the periphery of the disk and having an outwardly horizontal flange projecting therefrom with an opening through which the longer leg of the element extends.

FRANK R. DAILY.