

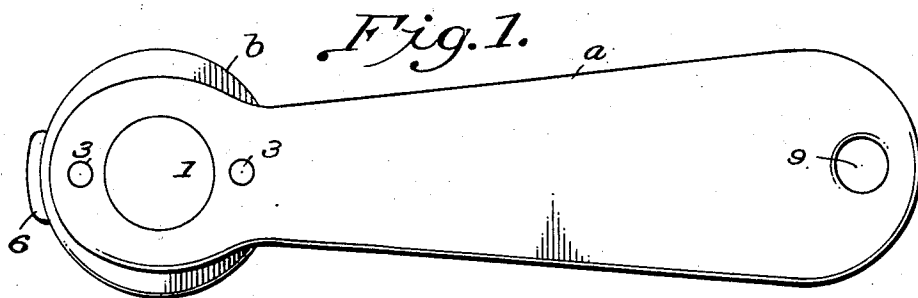
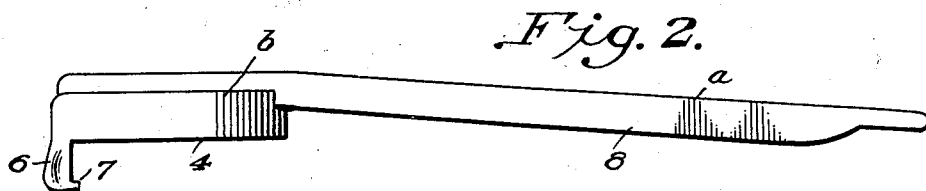
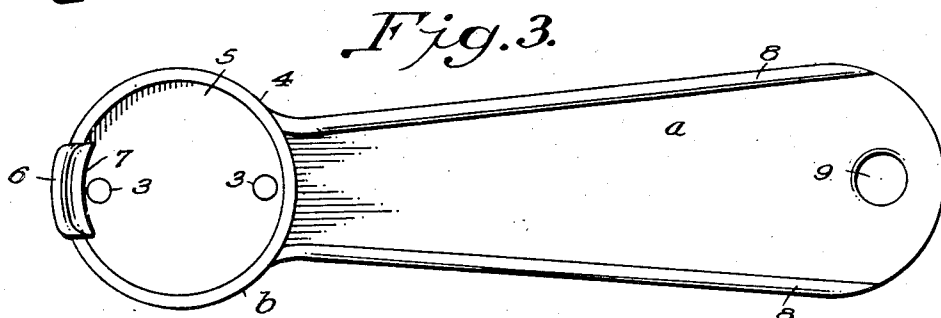
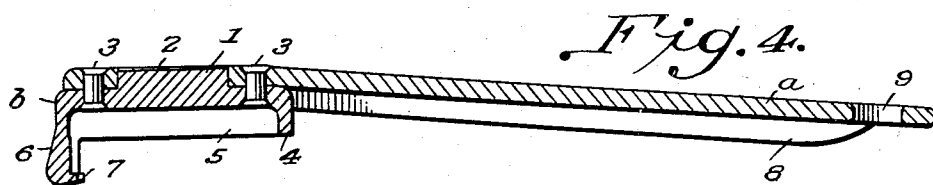
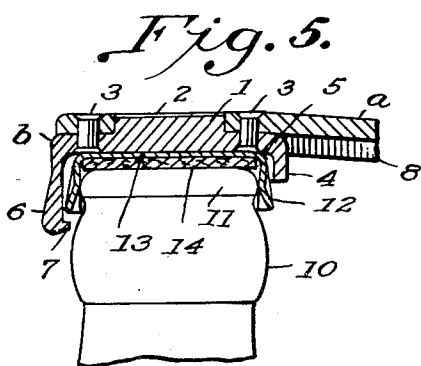
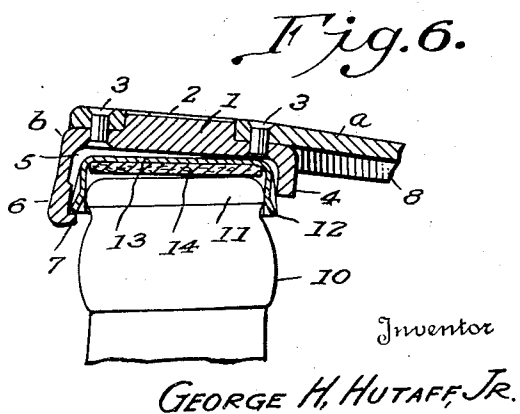
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2,330,893

BOTTLE CAP REMOVER

Filed April 21, 1942



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2,330,893

BOTTLE CAP REMOVER

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2 Claims. (Cl. 81—3.46)

My invention relates to new and useful improvements in a bottle cap remover of that form more particularly adapted for removing the well-known form of "crown" type cap and has for its principal object the provision of a device of the character described which may be used without danger of cracking the glass from which the bottle is made.

A further object of the invention consists in the provision of a bottle cap remover of the character described which includes a handle and a head portion, the head portion being formed to receive and encircle the bottle cap and to hold the removing projection or lifting lug of the remover in a position so that it will not contact the neck of the bottle and more particularly the beaded edge usually formed at the mouth portion of the bottle neck.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawing, and while I have illustrated and described the preferred embodiments of the invention, as they now appear to me it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawing:

Fig. 1 is a top plan.

Fig. 2 is a side elevation.

Fig. 3 is a bottom plan.

Fig. 4 is a longitudinal vertical section.

Fig. 5 is a fragmental longitudinal vertical section with the bottle cap remover positioned relative to the cap on the bottle mouth; and

Fig. 6 is a view similar to Fig. 5 showing the bottle cap remover in the act of removing the cap, the lifting lug or projection being engaged with the edge of the bottle cap flange.

In the drawing, *a* indicates the handle portion and *b* the head portion of my improved form of bottle cap remover. The head portion is formed with the upwardly extending projection *1* adapted to be received in the circular opening *2*, formed adjacent one end of the handle *a*, and the head portion is secured to the handle portion by means of the rivets *3* or other suitable fastenings, as shown more particularly in Figs. 4, 5 and 6 of the drawing. The head portion is also provided with the depending circular flange *4* adapted to provide the recess *5* to receive the bottle cap, as shown more particularly in Figs. 5 and 6 of the drawing, this depending flange *4* encircling

the bottle cap and positioning the remover relative thereto. Extending downwardly from the flange *4* is a projection or arm *6* having the inwardly directed portion *7*, the projection or arm *6* with the inwardly directed portion *7* forming what might be termed a lifting lug or projection for raising the bottle cap relative to the mouth of the bottle.

As shown more particularly in Figs. 2 and 4 of the drawing the handle extends downwardly at a slight angle from the head portion and the longitudinal edges of the handle are formed with the depending flanges *8* for reinforcing purposes. An opening *9* is provided adjacent the outer end of the handle so that the remover may be hung on a nail or other suitable object.

In Figs. 5 and 6 of the drawing a bottle neck is shown at *10* and provided with the bead *11* around its mouth portion. This is of usual well-known construction and the bead *11* is adapted to be engaged by the usual corrugated flange *12* of the bottle cap indicated at *13*. The usual cork sealing disc, within the flange of the cap, is indicated at *14*.

When the bottle cap is to be removed the remover will be positioned, as shown more particularly in Fig. 5 of the drawing, with the bottle cap positioned within the recess *5* of the head portion *b* and surrounded by the depending flange *4* with the inwardly directed portion *7* of the lifting lug or projection positioned slightly below the bottom edge of the cap flange *12*. When in this position it will be noted that the upper surface of the bottle cap is engaged by the surface of the head portion. The handle portion *a* will be engaged by the user and on depressing the same the parts will assume the positions shown more particularly in Fig. 6 of the drawing with the inwardly directed portion *7*, of the lifting lug, positioned in engagement with the bottom edge of the cap flange *12*. That portion of the flange *4* opposite the lifting lug will contact the outer surface of the bottle cap flange *12* and act as a fulcrum so that on further depression of the handle the cap will be raised from the bottom mouth without any engagement of the remover with the bottle neck and thus there is no possibility of cracking the glass.

In Fig. 6 of the drawing the bottle cap is slightly raised from the mouth of the bottle and it can be readily seen by reference to either Fig. 5 or Fig. 6 of the drawing, that there is no possibility of any part of the remover engaging the glass from which the bottle is made and there-

fore, as previously stated, no possibility of cracking the glass.

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

1. A remover for bottle caps of the character described from glass bottles, said remover having a head portion and a handle, the head portion having a top adapted to rest flat against a bottle cap and a cylindrical body adapted to loosely surround said cap and provided with a depending lifting lug normally spaced below the bottom edge of the flange of the cap and an oppositely disposed abrupt flange having its lower end adapted to engage the side face of the cap flange at a point substantially below the top portion of said cap flange when the head portion is rocked with reference to the cap to tip the flange and thereby create a fulcrum while oppositely raising the lifting lug into engagement with the bottom edge of the cap flange, the location of said lower end of the flange relative to the lifting lug being such that while the latter will be maintained in engagement with the bottom edge of the skirt of

the cap it will move outwardly under the action of the fulcrum and away from contact with the bottle during removal of the cap.

2. A bottle cap remover of the class described including separately formed head and handle portions, the latter having an opening therethrough and the former a projection fitting said opening and a ledge portion surrounding said projection and underlying the handle portion around said opening, a depending cap-engaging lug at one portion of the head in line with the handle portion, a depending flange at an edge of the head opposite said lug in line with said cap-engaging lug and adapted to engage the outer face of the flange of the cap to afford a fulcrum point substantially below the top of said flange, and means interlocking the head with the handle to secure them together in reinforced relationship constituted by said interfitting projection and opening comprising means fastening the overlying portions of the handle and ledge portion preventing disalignment of the cap-engaging lug, flange-fulcrum and handle.

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