This invention relates to a bottle opener and has for its primary object to facilitate removal of the conventional crown cap from a bottle. Another object is to facilitate demounting of the bottle opener on a conventional pasteboard carton employed in the distribution of a number of beverage containing bottles. A further object is to supply with each carton of bottles distributed a convenient bottle opener and to avoid the necessity of the purchaser of the carton looking around to locate a bottle opener.

The above and other objects may be attained by employing this invention which embodies among its features an abutment carried by the handle of a conventional bottle carrying carton and extending horizontally across one end of said handle above the cells in which the bottles are supported, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therebetween which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, and a lug carried by the bottle cap lifter and extending angularly theretofrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil.

Other features include a recess extending into the abutment in registration with the opening in the bottle cap lifter for accommodating the portion of the bottle cap lying behind the lug during the removal of the bottle cap from the bottle, a tongue carried by the abutment and extending between adjacent folds of the carton handle for securing the abutment to said handle, legs carried by the bottle cap lifter and extending along opposite sides of the carton handle in registration with the tongue, and prongs carried by the legs and extending through the carton handle for securing the bottle cap lifter and the abutment to said handle.

In the drawings:
Figure 1 is a perspective view of a conventional bottle carrying carton showing this improved bottle opener attached thereto;
Figure 2 is a horizontal sectional view taken substantially on the line 2—2 of Figure 1;
Figure 3 is a perspective view of the bottle cap lifter and the legs by which it is attached to the carton handle; and
Figure 4 is a perspective view of the abutment and supporting tongue thereon.

Referring to the drawings in detail, a bottle carrying carton designated generally 10 is provided with parallel rows of bottle receiving cells 12 which are separated by a central partition from the upper edge of which extends a carton carrying handle 14. Conventionally, the handle 14 and central partition are produced by folding a sheet of cardboard upon itself to form layers 16 and 18 between which is received the tongue designated generally 20 of an abutment designated generally 22. The tongue 20 comprises a strip of metal folded upon itself, as illustrated in Figure 4, with opposite ends turned back to define flanges 24 which, as illustrated in Figures 1 and 2, engage opposite outer sides of the handle 14. The apertures defined between the adjacent portions of the tongue 20 which, as illustrated in Figure 2, overlie the adjacent end edges of the folds 16 and 18 of the handle and cooperate to define a abutment having a recess 26 opening through the side thereof remote from the tongue 20. In the preferred form of the invention, a tongue 20 is clamped as at 28 to assist in retaining the abutment 22 in proper position against the end of the handle 14, as will be readily understood upon reference to the drawings.

A bottle cap lifter designated generally 30 is provided with an opening 32 which defines with one horizontal edge of the bottle cap lifter and handle 34, the purpose of which will hereinafter appear. A lug 36 is carried by the bottle cap lifter 30 and extends angularly therefrom toward the anvil 34 to define a pry for engaging beneath the crimped edge of a bottle cap which, upon rocking movement of a bottle to which it is attached, is pressed against the anvil 34 and lifted from the bottle. Legs 38 are carried by opposite side edges of the bottle cap lifter 30 and are provided with longitudinally spaced openings 40 through which are projected prongs 42 and 44 which are clinched as at 46 to clamp the legs 38 against opposite sides of the handle 14 to securely hold the bottle cap lifter on the handle, as will be readily understood upon reference to Figure 2. The ends of the legs 38 remote from the bottle cap lifter 30 are provided with prongs 48 which, as illustrated in Figure 2, penetrate the layers 16 and 18 of the handle 14 to anchor the ends of the legs 38 remote from the bottle cap lifter to the handle. As illustrated in Figure 2, the prong 42 is projected through an opening 50 which extends through the tongue 20 so as to securely lock the tongue to the legs 38.

With the bottle opener mounted on the handle 14 of the carton 10, as illustrated in the drawings, it will be evident that when it is desired to remove the bottle cap from a bottle, the bottle is extracted from its respective cell 12 and the crimped edge of the cap is placed between the tongue 36 and the anvil 34 so that upon rocking the bottle to advance the cap toward the anvil 34, the cap will be pried loose from the bottle through its engagement with the lug or pry 36. Obviously, when the tongue 20 disposed between the opposite side portions 16 and 18 of the handle 14 and the flanges 24 partially embracing the end edges of the folds 16 and 18, a firm abutment will be produced against which the anvil 34 will seat so that the pressure exerted thereon by a bottle cap during the prying effort will be transmitted to the end edges of the handle 14.

While in the foregoing there has been shown and described the preferred embodiment of this invention, it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What is claimed is:
1. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, and
3. A lug carried by the bottle cap lifter and extending angularly therefrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil.

2. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, a lug carried by the bottle cap lifter and extending angularly therefrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil, and said abutment having a recess extending therein in registration with the opening for accommodating the portion of the bottle cap lying behind the lug during the removal of the bottle cap from the bottle.

3. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, a lug carried by the bottle cap lifter and extending angularly therefrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil, and a tongue carried by the abutment and extending between adjacent folds of the carton handle for securing the abutment to said handle.

4. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, a lug carried by the bottle cap lifter and extending angularly therefrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil, legs carried by the bottle cap lifter and extending along opposite sides of the carton handle, and prongs carried by the legs and extending through the carton handle for securing the bottle cap lifter to said handle.

5. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, a lug carried by the bottle cap lifter and extending angularly therefrom in the direction of the anvil to define a pry for engaging a bottle cap and disengaging it from a bottle as said bottle is rocked toward the anvil, a tongue carried by the abutment and extending between adjacent folds of the carton handle for securing the abutment to said handle, and the portion of the tongue remote from the abutment being crinkled to hold it against extraction from between the folds of the handle.

6. A bottle opener adapted to be attached to a bottle carrying carton of the type having a handle extending upwardly above and between rows of bottle receiving cells, said bottle opener comprising an abutment carried by the handle and extending horizontally across one end thereof above the cells, a bottle cap lifter carried by the handle and extending across the end thereof in engagement with the abutment, said lifter having an opening extending therethrough which defines in conjunction with a horizontal edge of the lifter an anvil against which a bottle cap is pressed during its removal from a bottle, a lug carried by the bottle cap lifter and extending along opposite sides of the carton handle in registration with the tongue, prongs carried by the legs and extending through the carton handle and through the tongue, and said prongs being clinched to securely anchor the abutment and bottle cap lifter to the carton handle.

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