My invention relates to cap releasers and more particularly to those adapted for use on any bottle or can capable of being sealed or capped by means of a crown cap.

The object of my invention is to provide an article of this type capable of accomplishing its intended purpose with such facility and efficiency that together with its novel features which permit its economical manufacture, it will become generally used.

A further object is to provide an article of this type which may be easily placed on and is securely held in position on a bottle or can during the application thereto of a sealing cap.

A further object is to provide an article of this type which in no way interferes with the complete seal of the bottle or can when any sealing cap of well known or approved construction is used.

A further object is to provide an article of this type which is so constructed that it will accomplish its intended purpose when lifted outwardly and longitudinally away from the bottle or can, or if pushed laterally.

A further object is to provide an article of such construction that it can be actuated and removed from contact with the cap and bottle or can leaving the cap susceptible to easy manual removal when desired.

Another object is to provide an article of this type which does not impede the packing or shipping of containers provided with same and which also provides additional space for advertising media if so desired.

A further object is to provide a cap releaser which will enable the above and other objects to be effectively attained.

Broadly my invention comprises a cap releaser including a top section having gripping means formed integral therewith and adapted to hold the releaser in place on the head of a bottle or can and a handle portion depending therefrom and formed integral therewith, said handle being provided with a weakened section to assist in the efficient operation of the device as will be set forth below.

Practical embodiments of my invention are shown in the accompanying drawings in which:

Fig. 1 represents a detail side elevation of one embodiment of my invention applied to a bottle;

Fig. 2 represents a detail front view of the form shown in Fig. 1;

Fig. 3 represents an outside view of a slightly modified form of the invention shown applied to a can;

Fig. 4 represents a detail vertical section taken on the line IV—IV of Fig. 3 looking in the direction of the arrows;

Fig. 5 represents a transverse vertical section on an enlarged scale taken on the line V—V of Fig. 2 looking in the direction of the arrows;

Fig. 6 represents a horizontal section taken on the line VI—VI of Fig. 5 looking in the direction of the arrows;

Fig. 7 represents a horizontal section taken on the line VII—VII of Fig. 5 looking in the direction of the arrows;

Fig. 8 represents a detail development partly broken away of one form of my invention with certain parts formed and shown on the scale of Figs. 1—4 inclusive;

Fig. 9 represents a top plan view of the form shown in Fig. 8;

Fig. 10 represents a top plan view partly broken away of the form shown in Figs. 8 and 9 bent to accommodate the top head of a can or bottle;

Fig. 11 represents a top plan view partly broken away of a modification of my invention;

Fig. 12 represents a sectional detail of one feature of my invention taken on line XII—XII of Fig. 10 looking in the direction of the arrows, and

Fig. 13 represents a sectional detail taken in the line XIII—XIII of Fig. 11 looking in the direction of the arrows.

As the principles of my cap releaser are similar in all the forms shown, it is denoted in all figures by 1, the bottle by 2, the can by 3 and the cap by 4. The releaser 1 comprises a top section 5 provided with wings 6 and 7 which may or may not be bent horizontally inwardly at their lower edge 8 and 9 respectively. The top edge of section 5 is cut on an arc (see Fig. 8) and furnished with teeth or fingers spaced thereon denoted collectively by 10 which are adapted to be bent inwardly for the purpose described below. A handle 11 is formed integral with section 5 and is furnished with an overlapped edge 12 and a shaped tail portion 13 to facilitate grasping same to operate the releaser 1.

As shown in Figs. 8, 9, 10, and 12 the wings 6 and 7 may be provided with dents or projections 14, 15 in their upper surfaces formed at substantially right angles thereto by prick punching or stamping same therein. The central portion of the releaser 1 is weakened at 16 by a slot or punch as desired.

In order to apply the releaser 1 to the bottle 2 or can 3 it is first bent to encompass more than
What I claim is:

1. In combination, a bottle, a sealing cap therefor, a bead at the top of the bottle against which the seal is established, and a cap releaser having one end provided with upper inwardly directed portions, said portions being interposed between said bead and cap below the horizontal plane of the top of said bead against which the seal is established, and other lower inwardly directed portions of said releaser contacting said bead below its largest diameter, the parts being so constructed and arranged that the releaser is maintained on the bead independently of the cap during the capping operation, said releaser terminating in a depending handle portion extending below the cap, all of said releaser being located below the horizontal plane of the top sealing surface of the bead.

2. In combination, a bottle, a sealing cap therefor, a bead at the top of the bottle against which the seal is established, and a cap releaser having one end provided with upper inwardly directed portions, said portions being interposed between said bead and cap below the horizontal plane of the top of said bead against which the seal is established, and other lower inwardly directed portions of said releaser contacting said bead below its largest diameter, the parts being so constructed and arranged that the releaser is maintained on the bead independently of the cap during the capping operation, said releaser terminating in a depending handle portion extending below the cap, all of said releaser being located below the horizontal plane of the top sealing surface of the bead.

3. In combination, a bottle, a sealing cap therefor, a bead at the top of the bottle against which the seal is established, and a cap releaser having one end provided with upper inwardly directed portions, said portions being interposed between said bead and cap below the horizontal plane of the top of said bead against which the seal is established, and other lower inwardly directed portions of said releaser contacting said bead below its largest diameter, the parts being so constructed and arranged that the releaser is maintained on the bead independently of the cap during the capping operation, said releaser terminating in a depending handle portion extending below the cap, all of said releaser being located below the horizontal plane of the top sealing surface of the bead.

4. In combination, a bottle, a sealing cap therefor, a bead at the top of the bottle against which the seal is established and a cap releaser comprising an arcurate top section, inwardly bent upper portions thereof all of which are interposed between the cap and bead below the horizontal top plane of said bead against which the seal is established and above the largest diameter of said bead, wing sections of said top section conforming to and contacting said bead throughout more than half its largest circumference, lower inwardly protruding pieces spaced from said wing sections and contacting the bead below its largest diameter, the parts being so constructed and arranged that the releaser is held on the bead independently of the cap during the capping operation and beyond the sealing surface, and means of my invention do not intend to be limited to the specific embodiments herein shown and described except as set forth in the appended claims.
releaser being located below the horizontal plane of the top sealing surface of the bead.

GEORGE D. LAZAREVICH.

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