This invention relates to devices for opening ordinary bottles and like containers provided with the usual cork stopper or crimped caps.

The object of the invention is in the provision of an efficient, practical and convenient appliance capable of being folded into small compass for carrying and storage and readily extended to present a firm spiral cork-screw provided with an effective handle grip by which it may be manipulated.

It is a further feature to combine with the handle a powerful lever suited to engage a bottle cap and remove it from its seat with facility.

Another purpose is to produce a device that can be manufactured at a moderate cost and which presents a pleasing appearance.

These and analogous objects are attained by the novel construction and arrangement of parts hereinafter described and delineated in the accompanying drawing, forming a material part of this disclosure, and in which:

Figure 1 is a rear view of an embodiment of the implement.

Figure 2 is a side elevational view thereof.

Figure 3 is a front view thereof.

Figure 4 is a transverse sectional view taken on line 4—4 of Figure 1 and drawn to an enlarged scale.

Figure 5 is a similarly enlarged front view of an inner tubular structural element.

Figure 6 is an enlarged transverse sectional view taken on line 6—6 of Figure 2.

The outer shell or casing of the implement consists of a plate of sheet metal die formed to present a substantially channel shaped cross section its curved back 10 blending by rounded corners into parallel sides 11 and at one end to form a closure 12.

At the opposite end a similar curved wall 13 is extended beyond the edges of the side walls, its terminal member being inent to constitute a hook 14 adapted to engage below the rim of an ordinary bottle cap, its forward edge 15 being curved for that purpose, the side walls 11 recessed at 16 to receive the bottle mouth.

Obviously when the hook is inserted below the edge of a cap and the channel handle portion operated as a lever the cap will be forced from its seat and the bottle opened.

Midway in the length of the sides 11 is a rivet 17 headed at both ends this rivet 55 passing diametrically through the walls of a tube 18 holding it tightly against the inner surface of the channel back 10.

The rivet also passes through an eye 19 formed on the end of a helical cork-screw 20, the sharpened entering end 21 of which is of such length as to rest easily within the casing and the coils of the cork-screw substantially fill the space between the side walls 11.

The tube 18 has a central opening 22 from which a slit 23 extends to one end and at the other side of the opening is a passage 24 its width being slightly less than the diameter of the wire from which the cork-screw is constructed.

The outer end of the passage 24 is bevelled outwardly as at 25 to permit the cork-screw to drop by gravity a sufficient amount to allow it to be grasped conveniently, the position being shown in Figure 2.

Upon grasping the extending portion of the cork-screw and forcibly drawing it outward, away from the casing, its stem portion enters the passage 24, spreading the tube to permit movement as the cork-screw turns on its pivot 17 until it has assumed a position at a right angle to its handle and is received in the opening 22 by which it is held in operative position due to the spring effect of the tube 18.

To close the cork-screw it is merely necessary to reverse the operation of opening it, causing it to fold within the handle, which is its normal position.

Although the foregoing is descriptive of the preferred embodiment of the invention, it will be apparent that minor changes may be made in its construction, without the exercise of invention or conflicting with the scope of the claims hereto appended.

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

1. A foldable cork-screw comprising a channel shaped handle of U-shaped cross section having parallel sides and closed ends, a split tube intermediate the length of said handle, a wire cork-screw having a shank provided with a coiled eye at one end, a rivet passing through said handle and tube on which the eye is pivoted, and a longitudinal cam slot in said tube for holding the
cork-screw rigidly when extended at a right angle thereto and to be accessible when folded lengthwise of said handle.

2. A foldable cork-screw comprising a channel shaped handle having closed ends, a split spring tube, a rivet passing transversely through the sides of said handle to bind said tube against the inner surface of the handle, said tube having a cam slot, and a helically bent wire cork-screw pivoted on said rivet within the tube, the diameter of the cork-screw wire being in excess of the main portion of the tube slot whereby it is normally held within the handle and when extended held rigidly at a right angle.

3. A foldable cork-screw comprising a channel shaped handle having closed ends, a split spring tube, a rivet passing transversely through the sides of said handle and tube, a cork-screw pivoted within said tube on said rivet, and means in said tube to hold said cork-screw in either of its adjusted positions.

4. A foldable cork-screw comprising a channel shaped handle having closed ends, one of said ends being extended, a split spring tube intermediate the length of said handle, a rivet passing through said handle and tube, and a cork-screw pivoted on said rivet, said tube having a slot of lesser width than the diameter of the shank and a recess to retain said cork-screw rigidly when extended at a right angle to said handle and to loosely retain the cork-screw within the handle when disposed therewithin.

This specification signed this twenty-third day of December, 1926.

WILLIAM C. HIERING.