W. W. BURESCH.

BOTTLE CAPPING TOOL.

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1,353,719.

Patented Sept. 21, 1920.

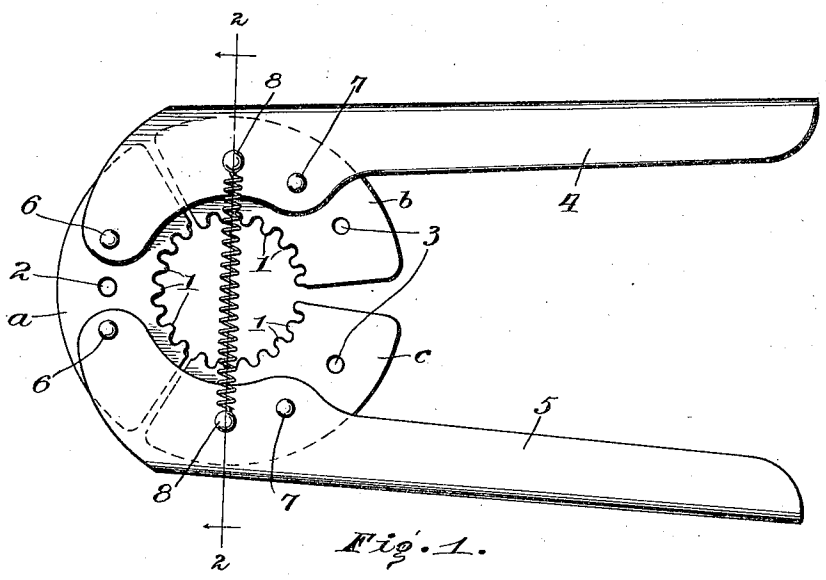


Fig. 1.

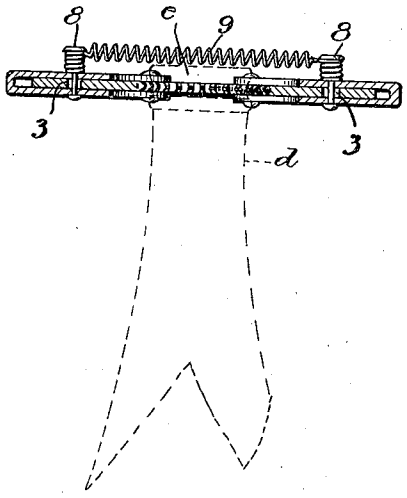


Fig. 2.

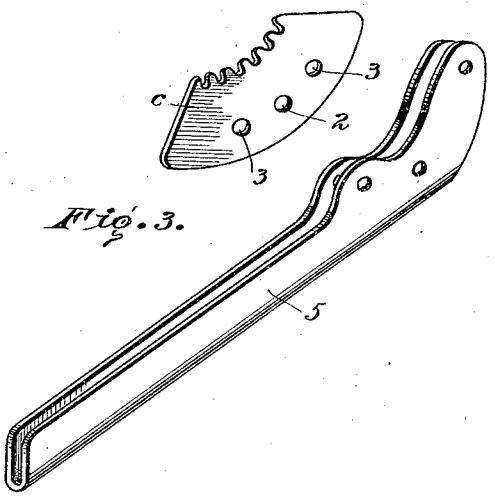


Fig. 3.

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BOTTLE-CAPPING TOOL.

1,353,719. Specification of Letters Patent. Patented Sept. 21, 1920.

Application filed April 16, 1920. Serial No. 374,398.

To all whom it may concern:

Be it known that I, WILLIAM W. BURESCH, a citizen of the United States, residing at Baltimore, State of Maryland, have invented certain new and useful Improvements in Bottle-Capping Tools, of which the following is a specification.

This invention relates to improvements in devices for applying crimped metal caps to bottles. The particular purpose of the invention is to provide a device by means of which crimped caps, which have been removed from bottles, can be re-applied in a secure and air-tight manner. In carrying out the invention, I provide three arcuate crimping members, which may be of the same size and made in the same die, these members, when brought together, forming a ring adapted to encircle a bottle cap and having internal teeth or serrations adapted to fit the indentations in the crimped portion of a bottle cap. Two handles are pivotally connected to one of the crimping members or jaws, and the other members or jaws are each centrally pivoted to said handles, and by pressing the handles toward one another, the jaws may be made to press a used bottle cap into its original shape around the bead on the bottle. A spring connects the pivoted handles together, and this spring extends across the opening between the jaws, at a fixed height above the jaws, the arrangement being such that when a cap is placed upon the bottle and the jaws are pressed down over the sides of the cap, the spring will hold the jaws around the cap and also serve as a stop to position the jaw teeth in the indentations in the cap.

In the accompanying drawing,

Figure 1 is a top plan view of the crimping device, showing the jaws partly opened to receive the cap;

Fig. 2 is a section on the line 2—2 of Fig. 1; and,

Fig. 3 is a perspective view of one of the handles with detached jaw.

Referring to the drawing, *a*, *b*, and *c*, indicate three arcuate jaws of the same form and size and which may be cut from sheet metal, in the same dies. These jaws are provided with inwardly projecting teeth 1, suitably spaced to engage the indentations in bottle caps such as have been formed by machinery and applied to bottles containing beverages and other liquids. In order that the jaws may be interchangeably used, each jaw is provided with a central perforation 2 and two end perforations 3. Handles 4 and 5 are each connected at one end to one of the jaws *a* by pivot pins 6, which pass through the end perforations 3, and the jaws *b* and *c* are pivotally connected to the handles 4 and 5, respectively, by pivot pins 7, which pass through the central perforations 2 in the jaws. The handles 4 and 5 are alike, and each is preferably made of a strip of sheet metal, suitably formed and folded upon itself, as shown in Figs. 2 and 3, and the jaws are loosely fitted between the folds of the strips. Short studs 8, riveted to the handles, are connected by a helical spring 9, which extends diametrically across the opening in the jaws at a fixed height above the jaws. The studs 8 extend through the end perforations 3 in the jaws *b* and *c*, respectively, and these perforations are of considerably larger diameter than the diameters of the studs, as shown in Fig. 2, so that the jaws *b* and *c* may rock, to a limited extent, about their pivots 7. Thus, all of the jaws are movable with respect to the handles and with respect to one another and this permits the several jaws to adjust themselves to the peripheral wall of a crimped bottle cap.

When a crimped cap is to be re-applied to a bottle, the cap is placed over the bottle mouth and the jaws of the capping tool are brought down over the cap until the spring 9 engages the top of the cap, as shown in Fig. 2, wherein the bottle is indicated at *d* and the cap at *e*, in dotted lines. The teeth on the jaws will then be in position to engage the indentations in the side wall of the cap. The spring serves as a stop to position the jaws and prevent them from going below the cap, and also serves to automatically hold the jaws in engagement with the cap. Owing to the pivotal connections of the jaws with the handles, the teeth on the jaws readily find their positions in the indentations on the cap when pressed against the cap by the spring. When the capping tool has been placed upon the cap as described, the operator presses the handles 4 and 5 toward one another and this re-crimps the cap about the bottle neck.

What I claim is:

1. A device for attaching crimped caps

to bottles comprising three arcuate crimping jaws adapted to encircle a cap, and a pair of handles both pivotally connected to one jaw and each having one of the other jaws pivoted to it.

2. A device for attaching crimped caps to bottles comprising three arcuate crimping jaws adapted to encircle a cap, and a pair of handles both pivotally connected to one jaw and each having one of the other jaws pivoted at its central portion to the handle.

3. A device for attaching crimped caps to bottles comprising three arcuate crimping jaws adapted to encircle a cap, a pair of handles both pivotally connected to one jaw and each having one of the other jaws pivoted to it, and a spring secured to the handles and extending over the opening between the jaws.

4. A device for attaching crimped caps to bottles comprising a pair of handles each consisting of a longitudinally folded metal strip and three flat arcuate crimping members fitting within the folds of the handles, one of said members pivotally connected to both handles, and the other members being each separately pivoted to the individual handles.

5. A device for attaching crimped caps to bottles comprising a pair of handles and three similar arcuate crimping jaws, each jaw having a central perforation and two end perforations, pivot pins connecting one of said jaws to both handles through its end perforations, and pivot pins connecting the other jaws to the handles through the central perforations in said latter jaws.

6. A device for attaching crimped caps to bottles comprising a pair of handles and three similar arcuate crimping jaws, each jaw having a central perforation and two end perforations, pivot pins connecting one of said jaws to both handles through its end perforations, pivot pins connecting the other jaws to the handles through the central perforations in said latter jaws, and two studs secured to the handles and each extending through an end perforation in one of said latter jaws.

In testimony whereof I affix my signature.

WILLIAM W. BURESCH.