E. R. SHARP.

BOTTLE CAPPER.

APPLICATION FILED APR. 23, 1919.

1,338,656. Patented Apr. 27, 1920.

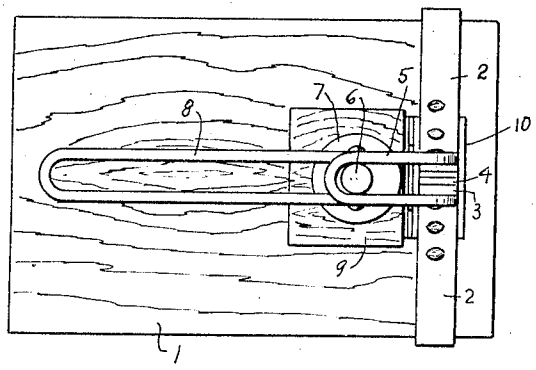


Fig. 1.

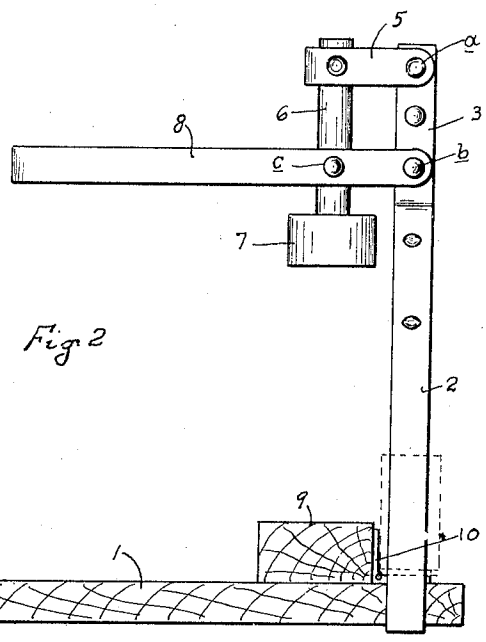


Fig. 2

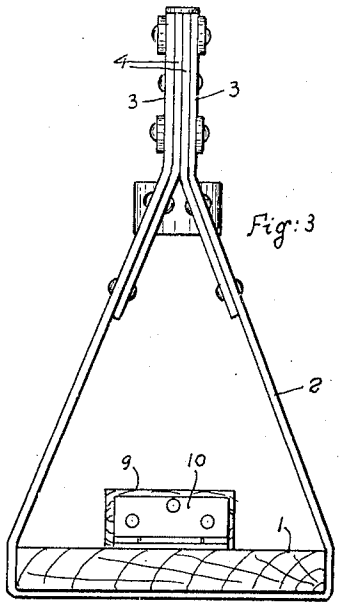


Fig. 3

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BOTTLE-CAPPER.

1,338,656. Specification of Letters Patent. **Patented Apr. 27, 1920.**

Application filed April 23, 1919. Serial No. 292,103.

To all whom it may concern:

Be it known that I, ELMER ROLAND SHARP, a citizen of the United States, residing at Davenport, in the county of Scott and State of Iowa, have invented certain new and useful Improvements in Bottle-Cappers, of which the following is a specification.

My invention has reference to bottle capping machines, and has for its purpose to provide a simple and durable device by means of which the usual metal caps or crowns can be fixed upon the tops of bottles. The construction of the device is such that it can be produced at a minimum of cost, the principal parts thereof being formed of small pieces of wood and strap metal.

In the drawings:—

Figure 1 is a plan view of my invention. Fig. 2 shows the same in side elevation. Fig. 3 is a rear end elevation thereof.

1 represents a base, preferably formed of wood, to which is secured a triangular shaped frame 2, projected upwardly into supports 3, between which is fixed a pair of plates 4, which are projected downwardly a short distance and united with the frame 2. Pivotally connected with the upper part of the supports 3, as at *a*, is a loop 5, in the outer end of which is pivoted the upper end of a plunger 6, carrying on its lower end a capping device 7, of any well-known construction. The capping mechanism is adapted to be operated by a handle 8, also in form of a loop, pivotally connected with the supports 3 as at *b*, and with the plunger 6 at *c*. By means of the handle 8 the plunger and capping head are given the necessary vertical movements.

Beneath the capping device 7 the base 1 is provided with a block 9, connected therewith by a hinge 10, so that such block may be turned upwardly between the frame members 2, as shown in broken lines in Fig. 2. The device is thus enabled to be used in capping bottles of different heights, the block being used for the smaller sizes, but being turned out of the way for the larger sizes, which are permitted to rest directly upon the base 1.

The block 9 is also preferably formed of wood, and it will be seen that the frame 2 with the extensions 3 thereof, the plates 4, and the loops 5 and 8 are all designed to be formed of strap metal of a comparatively light weight. The upper part of the supporting frame is given the requisite amount of strength and rigidity by the reinforcing plates 4.

By reason of the frame 2 being formed of strap metal, the sides thereof possess sufficient resiliency to permit the same to spring slightly when pressure is applied to the top of the bottle in placing the cap thereon. This lessens the danger of the bottle being broken by the force of such pressure.

In the capping operation a considerable amount of force is exerted downwardly upon the block 1, tending to crack or split the same, on which account it is preferred to extend the lower bar of the frame 2 across the block 1, acting as a reinforcement therefor.

What I claim and desire to secure, is:

A device of the class described, comprising a base; a triangular strap-metal frame mounted thereon, and having its sides projected upwardly into a support of double formation; a strap-metal link of double formation pivoted to said support; a bottle capping tool pivotally supported from said link; and a strap-metal lever of double formation, pivoted to said support, and pivotally connected with said bottle capping tool.

In testimony whereof I have affixed my signature.

ELMER ROLAND SHARP.