T. L. HOLLINGSWORTH.

ELASTIC SPRINKLER CAP.

APPLICATION FILED JAN. 20, 1919.

1,355,973. Patented Oct. 19, 1920.

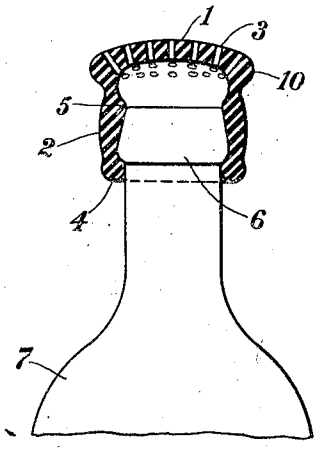

Fig. 1

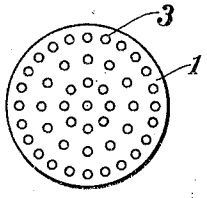

Fig. 2

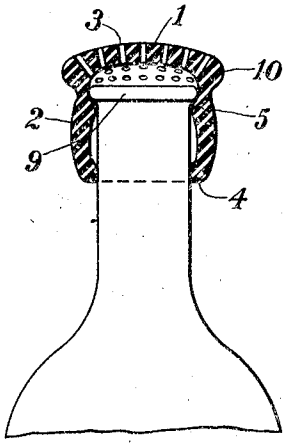

Fig. 3

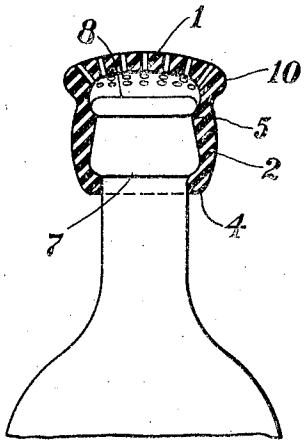

Fig. 4

THOMAS L. HOLLINGSWORTH
INVENTOR

BY Richey & Adams.
HIS ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS L. HOLLINGSWORTH, OF ELYRIA, OHIO, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, TO THE ELYRIA SPECIALTY COMPANY, OF ELYRIA, OHIO, A CORPORATION OF OHIO.

ELASTIC SPRINKLER-CAP.

1,355,973. Specification of Letters Patent. Patented Oct. 19, 1920.

Application filed January 20, 1919. Serial No. 272,067.

To all whom it may concern:

Be it known that I, THOMAS L. HOLLINGSWORTH, a citizen of the United States, residing at Elyria, in the county of Lorain and State of Ohio, have invented certain new and useful Improvements in Elastic Sprinkler-Caps; and I do hereby declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to elastic sprinkler caps and the like, adapted to be applied to various sizes and shapes of bottle necks or similar parts of receptacles.

In prior sprinkling devices for moistening clothes and fabrics for ironing and pressing, it has been the practice to attach the shank of a metallic sprinkler head in a cork, which fits inside the neck of the bottle to contain the water or other sprinkling fluid. With such an arrangement the cork fits only one size of bore in the bottle neck, and it is necessary to market the bottle with the sprinkler head, as the purchaser of a head alone would not be likely to have a bottle that would fit the cork thereon.

Bottles are, as is well known bulky and fragile and are, therefore, troublesome to ship. Furthermore, every household has one or more empty bottles lying around, and it is a disadvantage to require the user to purchase a special bottle to go with the sprinkler head, on account of the increased cost.

My invention aims to overcome this disadvantage by providing a sprinkler head that will fit various bottles regardless of the size or shape of the necks, within a reasonable range. The manner in which I accomplish this will be described in the following specification, reference being had to the drawings, in which—

Figure 1 is a sectional view of my improved sprinkler cap or head attached to a certain shaped neck of a bottle.

Fig. 2 is a plan view of the sprinkler cap.

Fig. 3 is a section of the cap fitted onto a different type of bottle neck.

Fig. 4 is a section of the cap attached to a still different form of bottle neck.

Referring to the drawings, the sprinkler head or cap has a flat or slightly rounded crown portion 1 and an elastic tube or mouth portion 2, which is adapted to be stretched over various sizes and shapes of bottle necks. The crown 1 has a plurality of holes 3 radiating or diverging from the central axis, so that a spray of water or other fluid will be directed from the bottle, as described later. While it is not in all cases necessary, I prefer to form one or more beads, such as 4 and 5, on the inside of the neck 2, so as to more firmly grip the bottle neck. In Fig. 1 the lower bead 4 grips under the bead 6 of the bottle or receptacle 7, while in Fig. 4 the beads 4 and 5 grip under the beads or rims 7 and 8, respectively, giving an especially firm, though detachable, connection between the cap and bottle neck.

In Fig. 3 the upper bead 5 is shown in gripping relation with the single bead 9 of the neck. This gives a more secure attachment, though it would be feasible to utilize the lower bead 4 for the gripping medium for this type of bottle neck.

The crown 1 preferably has a stiffening ring or bead 10 as the outer circumference. This gives a firm grip to the user whenever it is desired to remove the cap for filling or other purposes. The sprinkler cap is made of elastic rubber, so that the tube portion 2 can be stretched over various sizes and shapes of bottle necks.

It will be readily seen that I have devised a sprinkler cap that has wide uses on account of its described characteristics. It permits of ready attachment and detachment and yet firmly grips the bottle neck, so that when the bottle is inverted and jarred for spraying purposes, the cap will not slip off and deluge the goods being sprinkled, as is often the case with the cork type of sprinkler previously referred to. The diverging holes in the cap permit a substantially uniform distribution of water on the clothes or other goods to be moistened, and there will be no corrosion of the cap, as it is made of non-corrodible material, as described.

While I have described a particular type of elastic sprinkler cap, this is by way of example, and various modifications can be devised, which would be within the scope of the invention.

Having described my invention, what I claim is:

An elastic rubber sprinkler cap having a convex crown with a plurality of diverging

perforations therethrough for the purpose of directing sprinkling fluid, a mouth portion with an interior bead adapted to fit under a coöperating bead of a bottle neck when the sprinkler cap is placed upon a bottle, and an external stiffening bead about the periphery of the said crown and adapted to be located above the said bottle bead, said stiffening bead being adapted to be grasped to facilitate the removal of the said cap from the bottle.

In witness whereof I have hereunto signed my name this 17th day of January, 1919.

THOMAS L. HOLLINGSWORTH.