

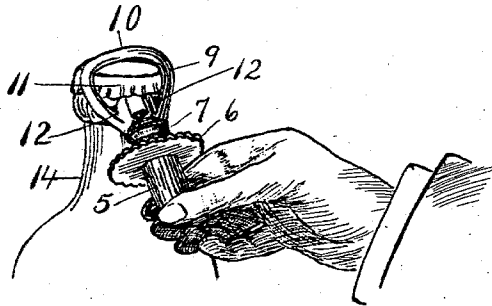
No. 757,548.

PATENTED APR. 19, 1904.

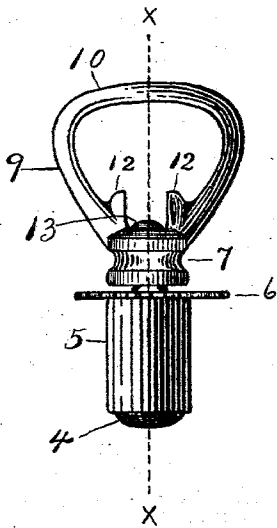
F. GOODRICH.  
BOTTLE STOPPER AND OPENER.  
APPLICATION FILED FEB. 15, 1904.

NO MODEL.

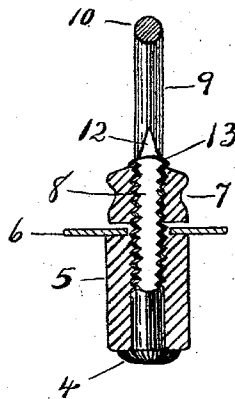
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses*  
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*Att'y.*

# UNITED STATES PATENT OFFICE.

FRED GOODRICH, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO TAPLIN MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION.

## BOTTLE STOPPER AND OPENER.

SPECIFICATION forming part of Letters Patent No. 757,548, dated April 19, 1904.

Application filed February 15, 1904. Serial No. 193,506. (No model.)

To all whom it may concern:

Be it known that I, FRED GOODRICH, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Expansible Bottle Stoppers and Openers, of which the following is a specification.

My invention relates to expansible bottle stoppers and openers; and the objects of my improvement are simplicity and economy of construction and efficiency and convenience in use.

In the accompanying drawings, Figure 1 is a perspective view of my bottle stopper and opener, together with a portion of a capped bottle and a hand, the same illustrating the manner of using the bottle-stopper for a bottle-opener. Fig. 2 is a side elevation of my stopper and opener, and Fig. 3 is a sectional view of the same on the line *x x* of Fig. 2.

The bottle-stopper comprises a headed bolt or screw 4, an expansible rubber portion 5, serving to stop the mouth of the bottle, a slot-washer 6, and a thumb-nut 7, the two sides of the threaded portion of the screw being slabbed off at 8, Fig. 3, to fit the parallel sides of the hole through the slot-washer. The construction thus far specifically described is older than my present invention, and consequently is not herein claimed. I form the open handle 9 of the thumb-nut 7 with a wide upper end 10, that is adapted to extend across the top of an ordinary bottle-cap 11, Fig. 1, near its center and at the base of the handle 9, at its junction with the nut and on opposite sides of the central hole therein, form the two separate inward projections 12, with a bolt-space between them, as shown. The outer or smaller end of the headed screw is provided with an enlarged or riveted end 13, formed after the nut has been screwed onto the bolt, whereby the nut is permanently secured thereon. The bolt-space between the two inward projections 12 is wide enough to let the end 13 pass up

and down between them when the nut is turned down to expand the rubber stopper 5. As a bottle-stopper the article is used in the ordinary manner; but before using the stopper the bottle must be opened.

My device is especially adapted for opening the ordinary capped bottles now in common use. For this use the nut is unscrewed until its riveted end 13 is down close to the nut, or at least down below the inner ends of the projection 12. Then applying the wide upper end 10 of the open handle 9 to the top of the cap 11 on the bottle 14, with the points of the two projections 12 just under the lower edge of the flange of the said cap, as shown in Fig. 1, and using the stopper 5 and its bolt 4 as a handle for lifting upwardly, the cap is easily removed. The bottle-stopper can be inserted when desired in the usual manner.

By my improvement I provide an expansible bottle-stopper and bottle-opener without any substantial increase in the cost of production over that of a bottle-stopper alone, and at the same time the bottle-opener in no way interferes with the use or convenience of the bottle-stopper.

I claim as my invention—

1. An expansible bottle-stopper, having a nut provided with an open handle, broad at the top, and with two separate inward projections at the junction of the handle and nut with a bolt-space between the said two projections, substantially as described.

2. An expansible bottle-stopper having a nut and bolt, the said nut having an open handle with two separate inward projections at the junction of the handle and nut with a bolt-space between the said two projections, and with the threaded end of the bolt riveted down to prevent the nut from being detached all substantially as described.

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Witnesses:

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