

No. 771,960.

PATENTED OCT. 11, 1904.

O. ADAMS.  
BOTTLE STOPPER.

APPLICATION FILED JUNE 30, 1902.

NO MODEL.

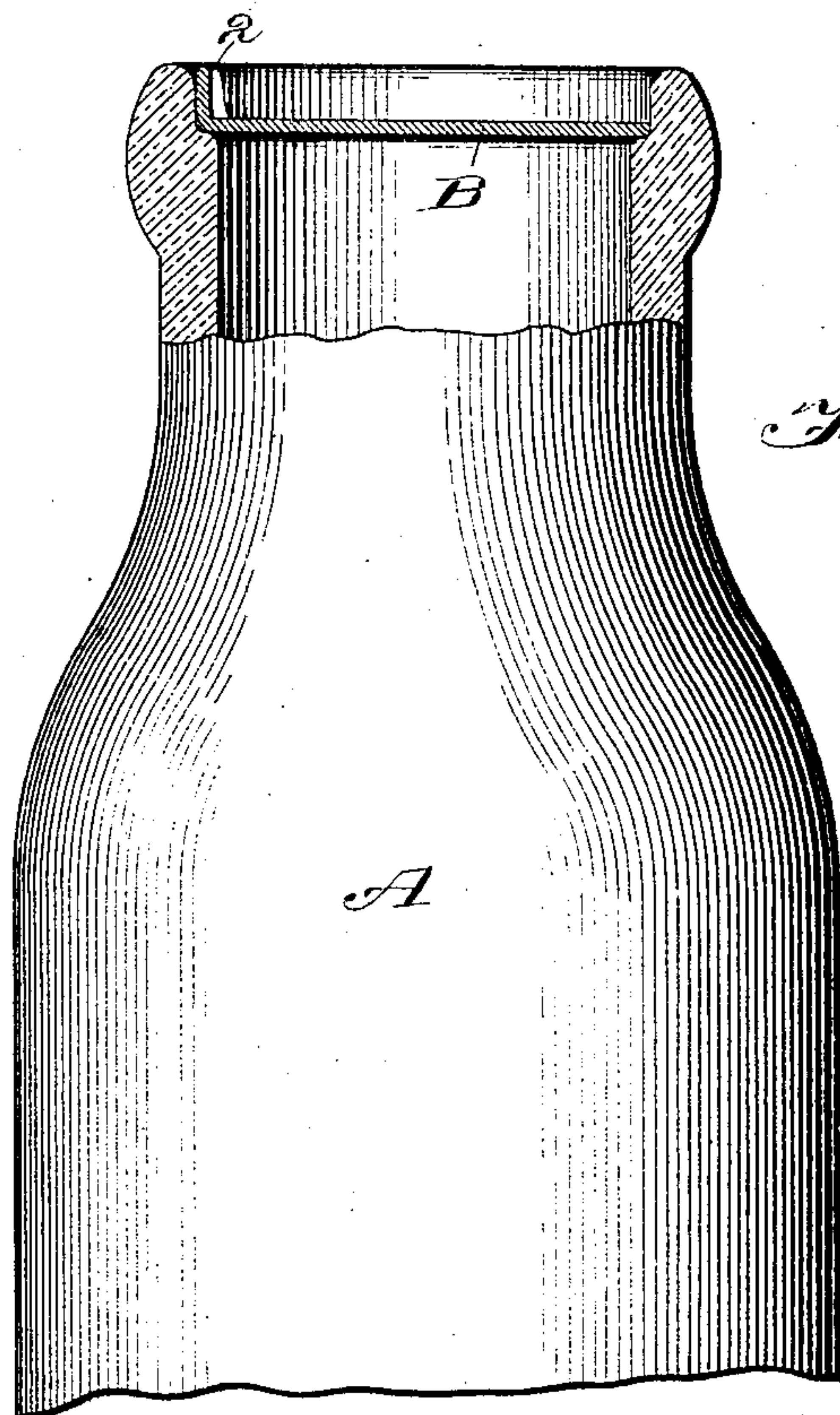


Fig. 2.

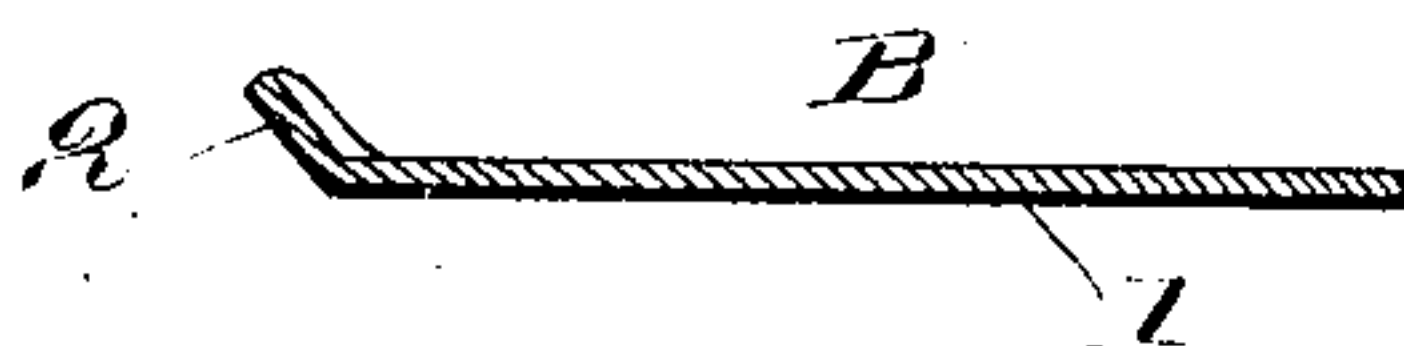


Fig. 3.

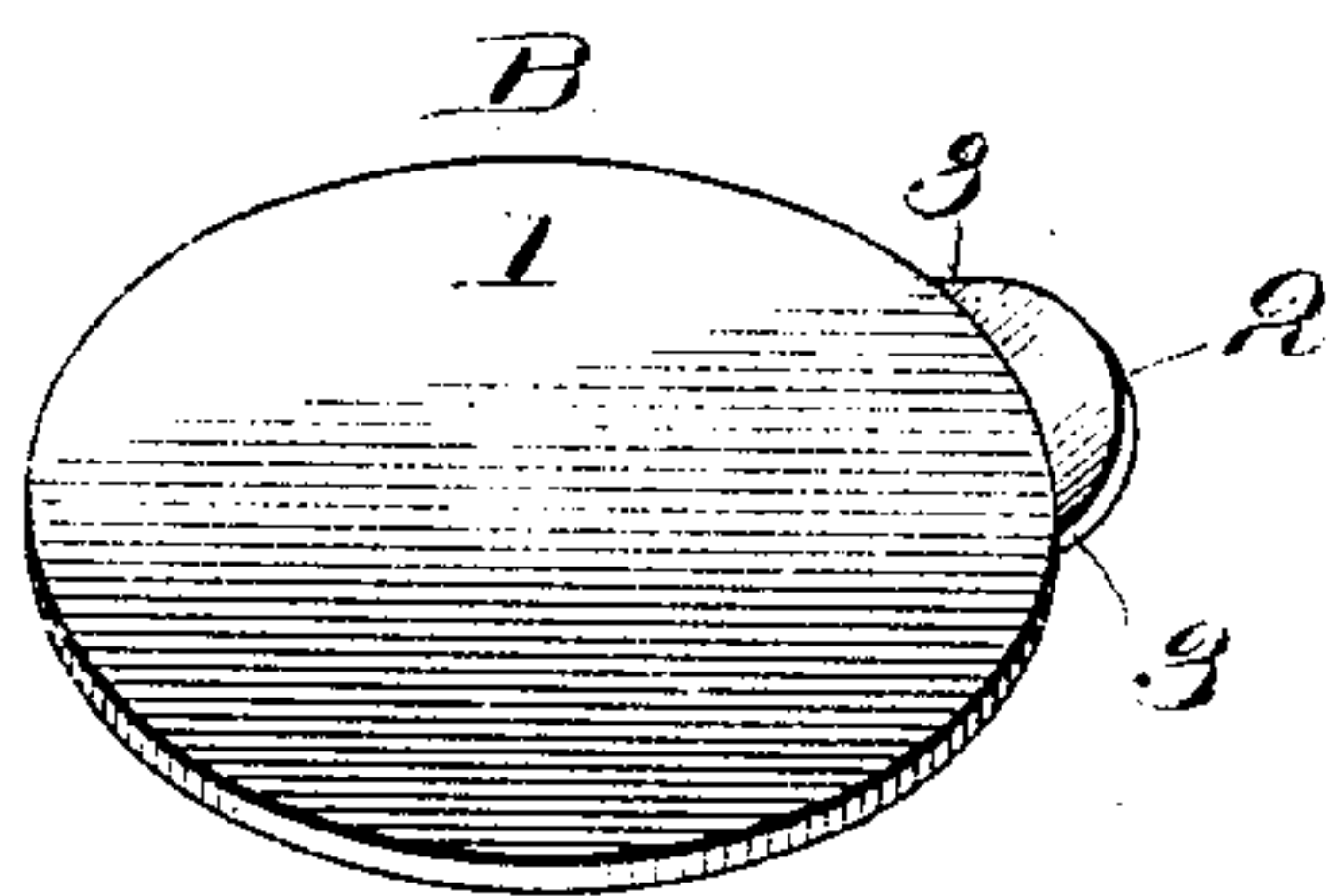
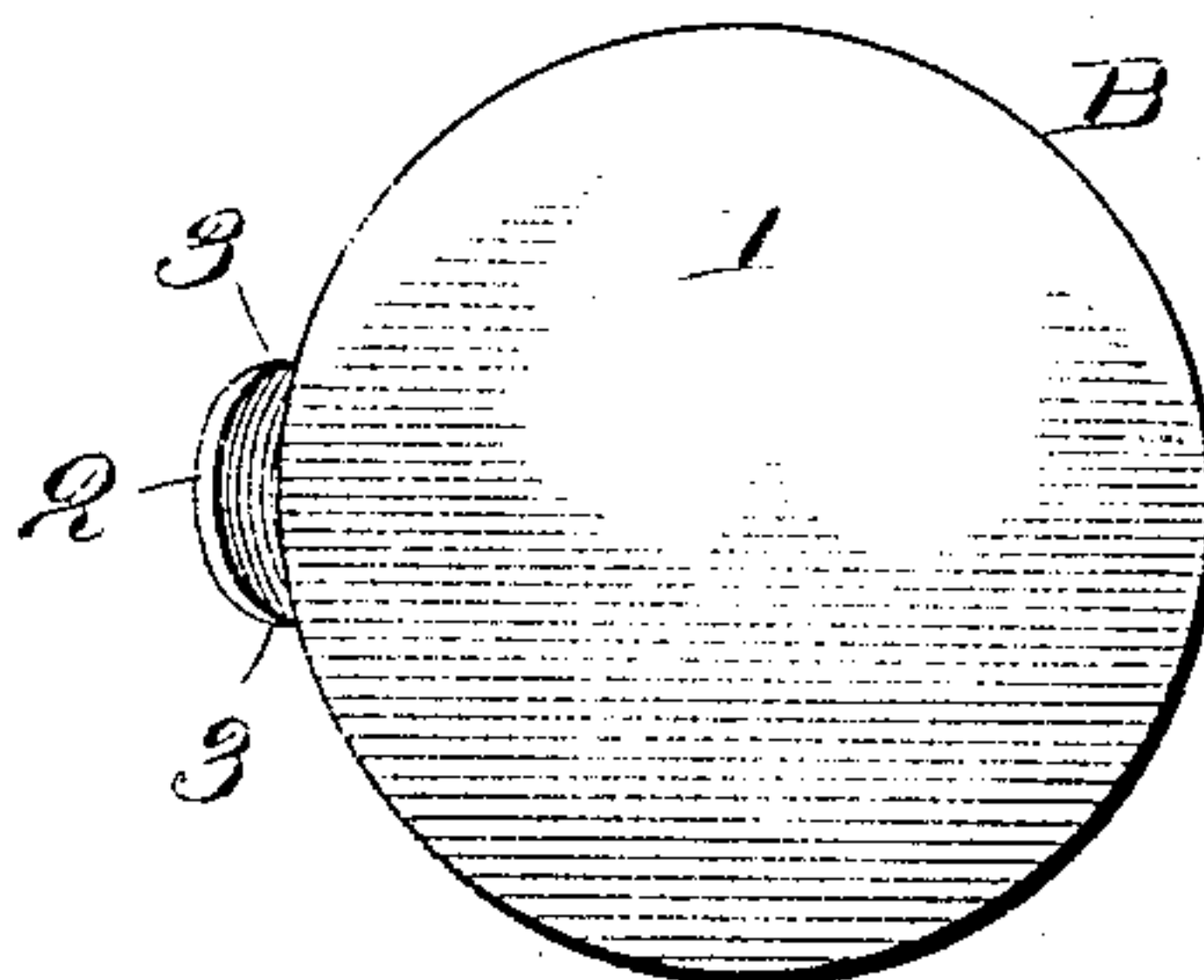


Fig. 4.



Witnesses:

H. S. Gaither  
J. C. Lee

Inventor:  
Olin Adams:

by A. Miller Rydell  
Attorney.



## UNITED STATES PATENT OFFICE.

OLIN ADAMS, OF CHICAGO, ILLINOIS.

## BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 771,960, dated October 11, 1904.

Application filed June 30, 1902. Serial No. 113,775. (No model.)

*To all whom it may concern:*

Be it known that I, OLIN ADAMS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have  
5 invented a certain new and useful Improvement in Bottle-Stoppers, (Case No. 4,) of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this  
10 specification.

My invention relates to bottle-stoppers especially adapted for milk-bottles; and its object is to provide a simple, practical, inexpensive, and advantageous form of stopper.

15 The stopper herein shown as embodying my invention comprises a flat rimless circular cap having a formed-up tab projecting upwardly from the cap—that is to say, a tab which is formed in the process of making the  
20 stopper so as to extend upwardly from the cap. In this way when the cap is inserted into the bottle-neck the line of connection between the tab and the cap will not be broken or cracked, although the tab may be bent to  
25 a more abrupt inclination with reference to the cap. As a result the tab will not be torn off from the cap when the tab is taken hold of to remove the stopper from the bottle.

As a matter of further improvement the tab  
30 is desirably made with edges or sides which diverge from one another as they approach the cap, thereby permitting a wide connection between the cap and tab, which further insures against tearing.

35 In the accompanying drawings, Figure 1 is a view of the upper portion of a bottle, part of the neck being shown in section and a cap embodying my present invention arranged in the bottle-neck. Fig. 2 is a transverse section of the cap. Fig. 3 is a perspective view,  
40 and Fig. 4 is a plan view, of the same.

In the drawings the bottle A is provided with a stopper B, as shown in Fig. 1. The stopper B consists of a flat circular rimless  
45 cap 1 and a formed-up tab 2, which is formed in the process of making the stopper so as to extend upwardly from the cap. The tab 2 is desirably made with diverging edges 3 3, so that its line of connection with the cap 1 is  
50 broadened. The stopper can be made of any

suitable material—as, for example, pasteboard or similar material—and as a preferred arrangement the tab 2 is made integral with the cap 1. In such case the tab is given its formed-up nature by bending or inclining it upwardly, 55 as shown in Figs. 2, 3, and 4, so that it normally possesses this inclined condition, the material being bent in this way in the process of manufacture. The tab also has a concave configuration. The edges of the cap fit 60 against the interior of the bottle-neck. By such construction it will be seen that the tab is always ready for use, it is unnecessary to bend it up, unnecessary to shape the bottle specially for it, and unnecessary to construct 65 the cap specially for the bottle.

When the stopper is inserted into the bottle-neck, as shown in Fig. 1, the tab 2 can be bent to a more upright position, as shown, without causing a breakage or cracking of the 70 connection of the cap 1 and tab 2, and so when the tab 2 is taken hold of to remove the stopper from the bottle the stopper is readily withdrawn no matter how tightly it fits, the arrangement insuring against any breakage 75 or cleavage between the tab and cap.

It will be seen that the stopper is exceedingly simple, cheap, effective, and reliable.

It will be understood, of course, that the cap 1 may be of any desired shape to fit the necks 80 of bottles to which the stoppers are to be applied.

It will be understood that the stopper herein set forth is capable of being changed, altered, or modified without departing from the spirit 85 of my invention, and hence that I do not desire to be limited to this specific construction.

What I claim is—

1. A bottle-stopper comprising a rimless flat cap provided with an upwardly-inclined 90 formed-up tab, as set forth.

2. A bottle-stopper comprising a rimless flat cap provided with an upwardly-extending concave tab, as set forth.

3. A bottle-stopper comprising a rimless 95 flat cap provided with a formed-up tab having sides diverging from one another as they approach their points of connection with the cap, substantially as described.

4. A bottle-stopper comprising a rimless 100

flat cap 1 provided with an inclined formed-up tab 2 having diverging sides 3, 3, the cap and tab, being made integral with one another, of pasteboard or like material, and said material being formed in the process of manufacture so as to give the tab 2 a permanent upward inclination, substantially as described.

5. A bottle-stopper comprising a rimless

cap provided with a normally upwardly extending tab, as set forth. 10

In witness whereof I hereunto subscribe my name this 27th day of June, A. D. 1902.

OLIN ADAMS.

Witnesses:

A. MILLER BELFIELD,

I. C. LEE.