

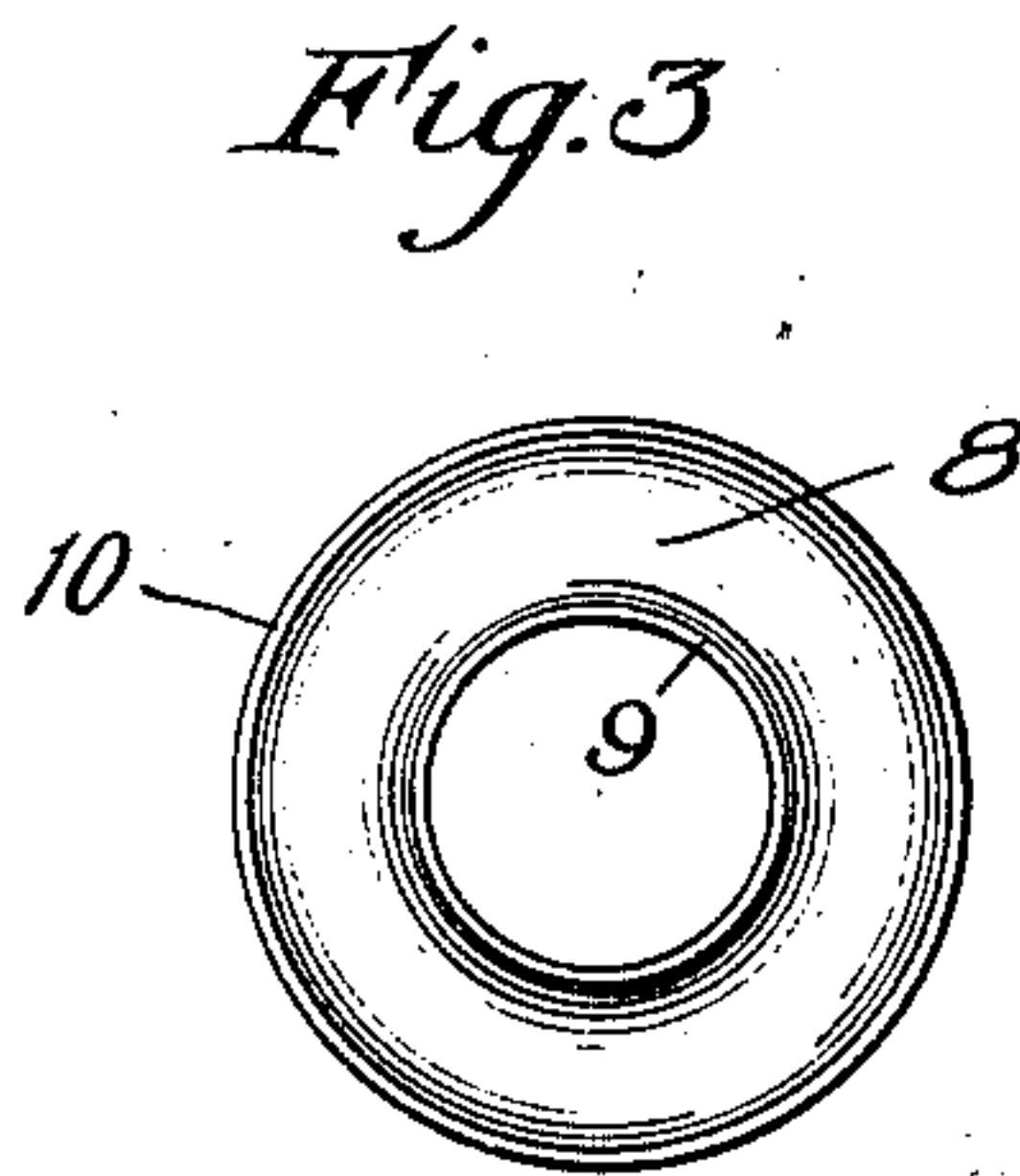
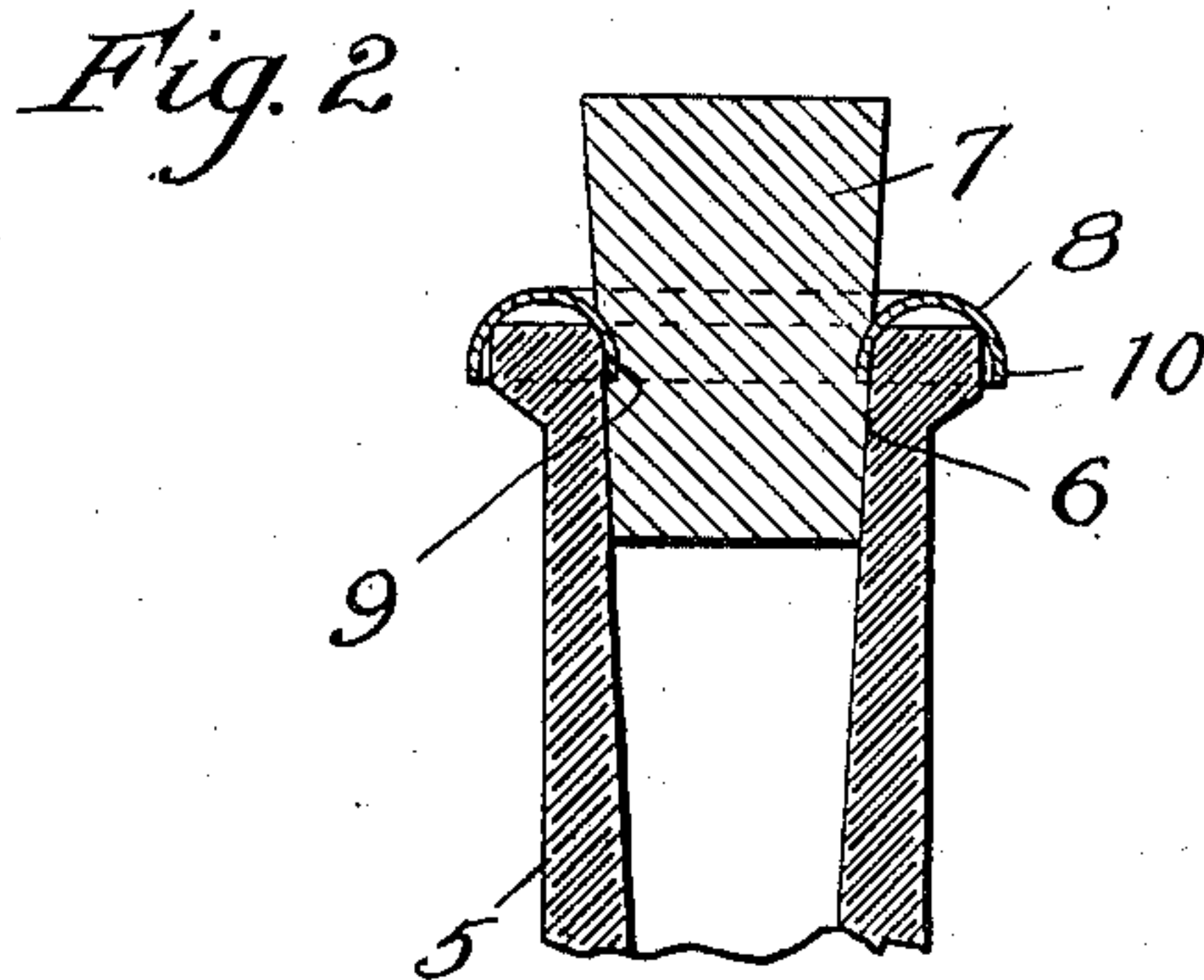
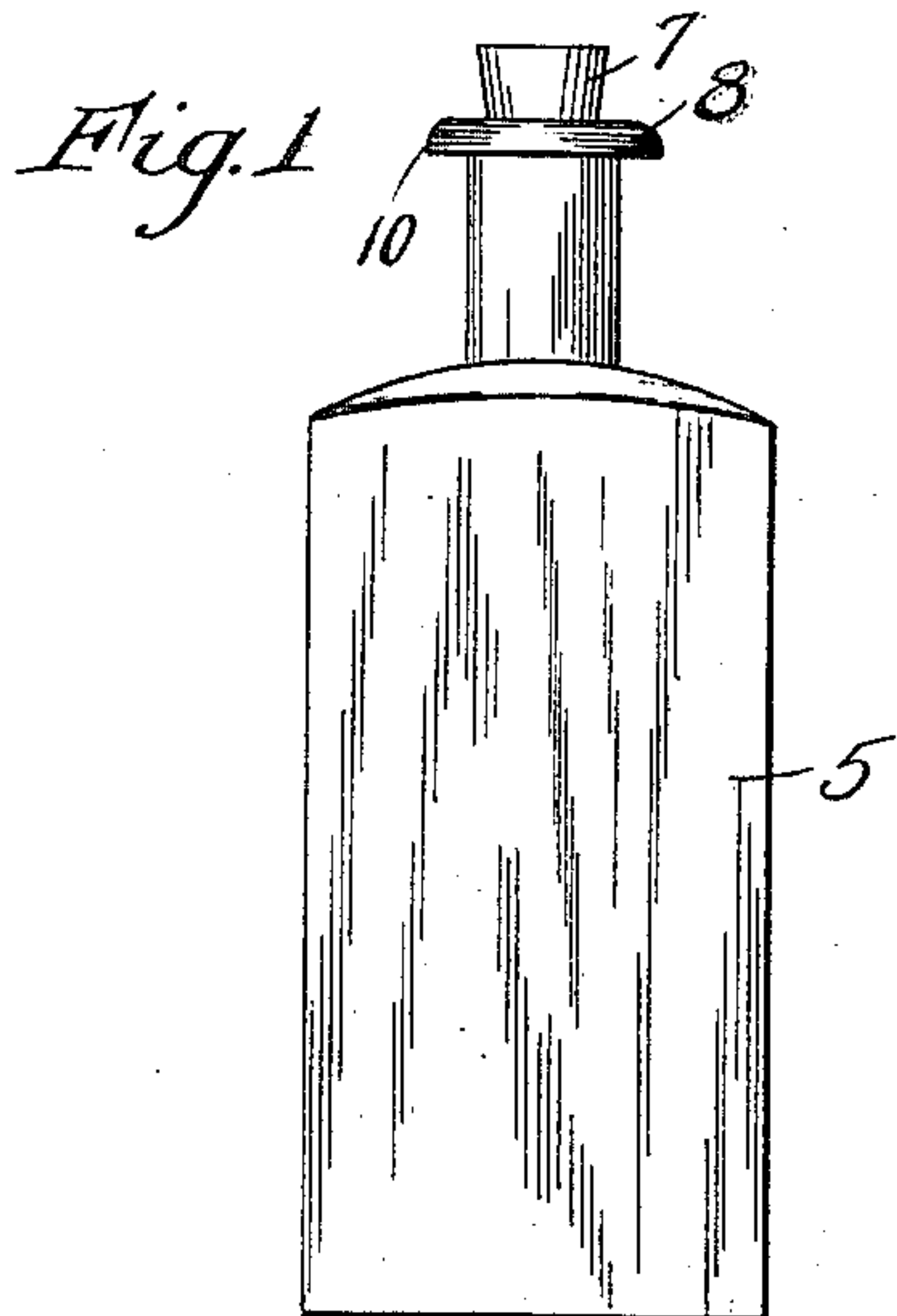
No. 736,719.

PATENTED AUG. 18, 1903.

M. HAAS.  
DUST PROTECTOR FOR BOTTLE MOUTHS.

APPLICATION FILED JUNE 18, 1903.

NO MODEL.



Witnesses:  
Wm. Geiger  
A. W. Munday.

Inventor:  
Max Haas.  
By Munday, Everts & Adcock.  
Attorneys

# UNITED STATES PATENT OFFICE.

MAX HAAS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO HENRY SCHULHOFF, OF CHICAGO, ILLINOIS.

## DUST-PROTECTOR FOR BOTTLE-MOUTHS.

SPECIFICATION forming part of Letters Patent No. 736,719, dated August 18, 1903.

Application filed June 18, 1903. Serial No. 162,140. (No model.)

*To all whom it may concern:*

Be it known that I, MAX HAAS, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Dust-Protectors for Bottle-Mouths, of which the following is a specification.

In the use of the ordinary bottle-stopper or cork an annular depression or open space exists around the cork and just within the mouth of the bottle which is adapted to catch and retain dust and dirt, and which dust and dirt when the cork is taken out fall into the bottle and contaminate its contents instead of being removed with the cork.

My object in this invention is to provide novel means of obviating this unsanitary result, and I accomplish it by the construction hereinafter set forth, and illustrated in the accompanying drawings, in which—

Figure 1 shows a bottle provided with the invention. Fig. 2 is a partial vertical section. Fig. 3 shows the rim detached.

In said drawings, 5 represents the bottle, and 6 the mouth thereof, and 7 is the cork or other stopper. The cork or stopper is preferably of a compressible material—such as cork, rubber, and the like—in order that the rim or collar may be secured thereto as hereinafter stated.

The rim or protector (shown at 8) is made of some non-corrodible metal, celluloid, paper, or other suitable material adapted to be molded or pressed into form. It is so sized and shaped that it will be firmly held to the cork and set over and fit more or less closely the edge or mouth of the bottle with which it is used. The first of these results I obtain by making the opening in the rim somewhat smaller in diameter than the cork, so that after the rim is positioned on the bottle the stopper may be forced into it from above and sufficient distance to insure the attachment of the rim to the stopper. The stoppers being tapering and the material of which they are made being somewhat yielding in its nature, it will be seen that when the stopper is thus forced into the rim and bottle the rim will embed itself in the material of the stop-

per, or at least clamp the same with such tightness that it will be attached thereto, so that when the stopper is removed from the bottle the rim will be lifted off with it, and as the rim is adapted to receive and hold the accumulations of dust and dirt usually collecting around the stopper it will be seen that such accumulations will be removed with the rim and cannot get into the bottle, so as to contaminate its contents. In order that the rim may be thus used, I turn the inner edge of it vertically downward, as shown at 9, in order that it may present a wide surface to the stopper instead of a sharp edge and also so that its extreme edge may not catch or cut into the stopper when the latter is forced down into it.

The outer portion 10 of the rim is extended, so as to cover or set down on the mouth of the bottle, and I prefer that it be shaped to conform approximately to the shape of the bottle-mouth. The act of forcing in the stopper will also force this outstanding portion 10 down over the bottle-mouth and establish a close fit therewith which will exclude the dust and dirt.

The rim may be of a separate piece from the stopper and should it become damaged it may be readily replaced by a fresh one.

I claim—

1. The combination with a bottle-stopper of an outstanding rim or dust-excluder, made separate from the stopper, and adapted to be frictionally secured thereto when the stopper is inserted in the bottle, substantially as specified.

2. The combination with a bottle-stopper, of an outstanding rim or dust-excluder, made separate from the stopper, and having a central opening of less diameter than the stopper, so that the stopper will be clamped by it, substantially as specified.

3. The combination with a bottle and its stopper, of an outstanding rim or dust-excluder, adapted to be frictionally secured to the stopper, and having its outer portion fitting the bottle-mouth, substantially as specified.

4. The outstanding rim or dust-excluder



herein shown, having its inner edge bent downward, and its outer edge shaped to conform to the bottle-mouth, in combination with the stopper and the bottle, substantially as specified.

5 5. The dust-excluder herein described, consisting of a rim with a central opening, adapted to receive the stopper, said central opening having its edge bent downward so that  
10 the stopper may be inserted in it without being cut or caught by the edge of the rim, in combination with the stopper, substantially as specified.

15 6. The rim or dust-excluder for use with a bottle-stopper, adapted to be frictionally secured to the stopper, and having its outer

portion shaped to fit the bottle-mouth, substantially as specified.

7. The rim or dust-excluder herein shown, having its inner edge bent downward, and its  
20 outer portion shaped to conform to the bottle-mouth, substantially as specified.

8. The dust-excluder herein described, consisting of a rim with a central opening adapted to receive the stopper, said opening having  
25 its edge bent downward, so the stopper may be inserted in it without being cut or caught by the edge of the rim.

MAX HAAS.

Witnesses:

EDW. S. EVARTS,  
H. M. MUNDAY.