

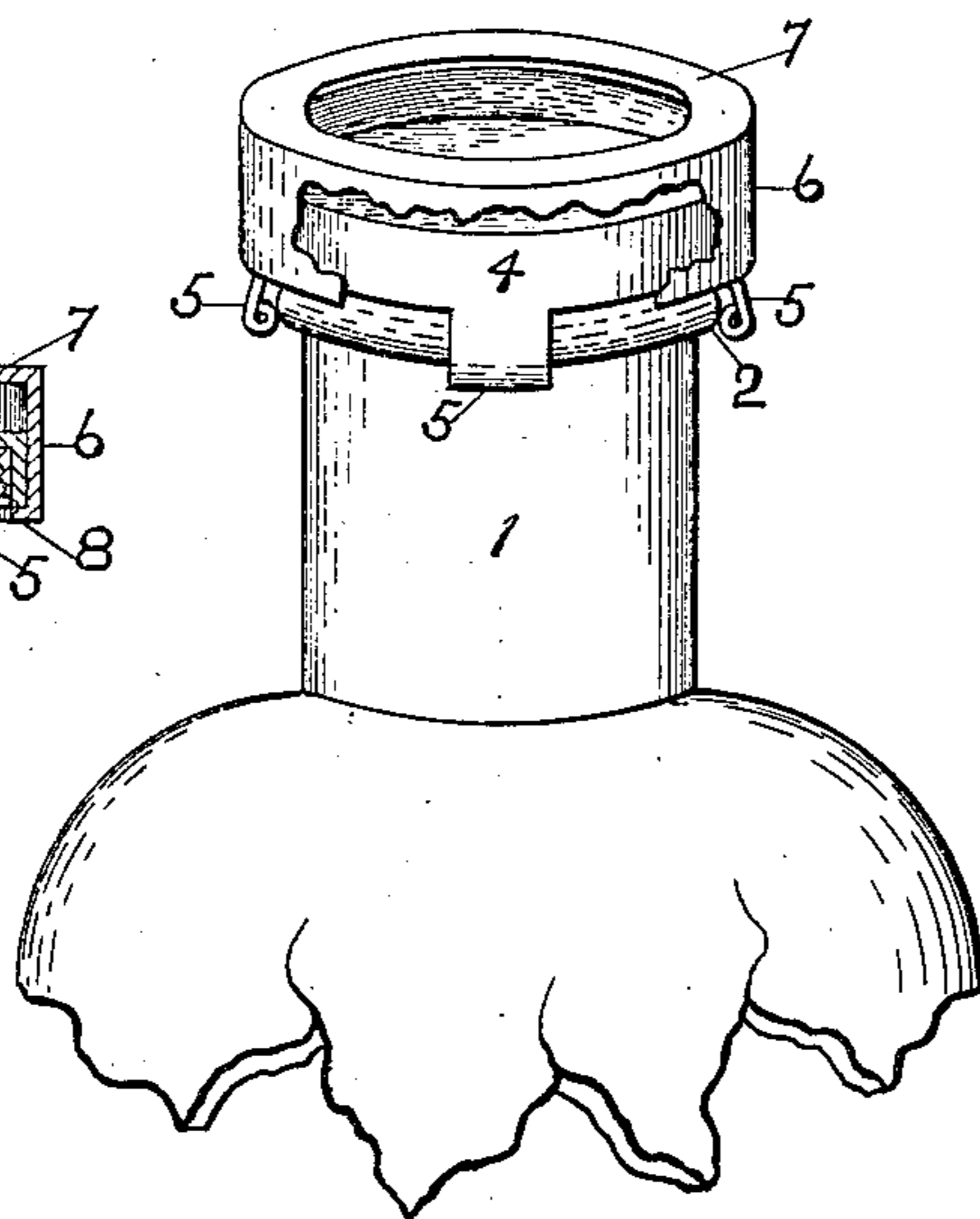
No. 835,366.

PATENTED NOV. 6, 1906.

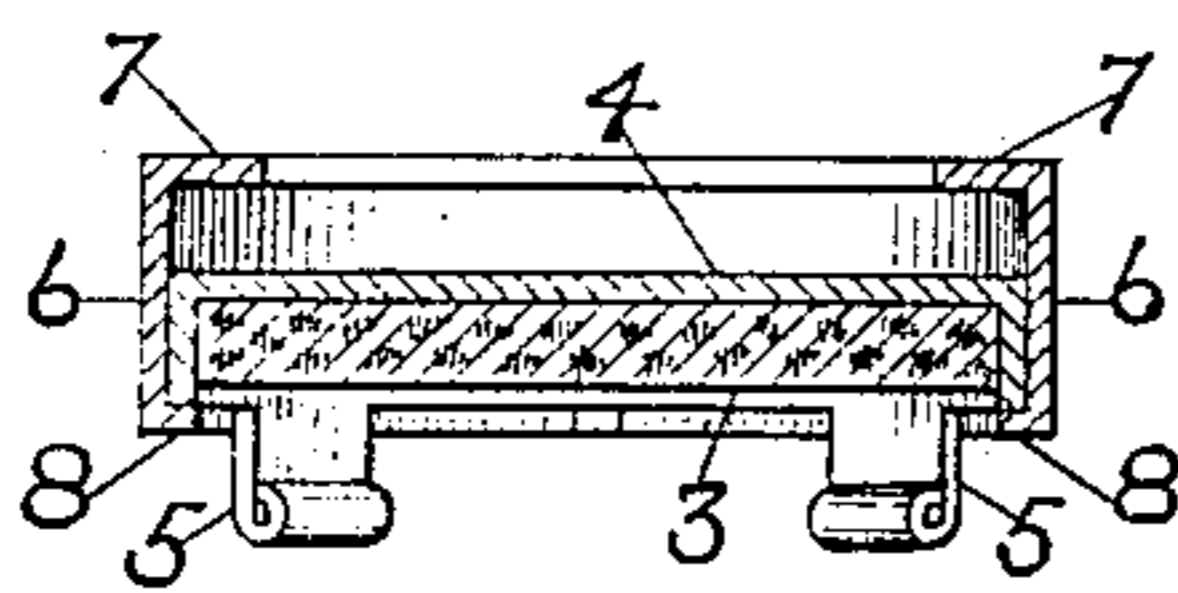
W. F. PURCELL.  
BOTTLE STOPPER.

APPLICATION FILED DEC. 7, 1905.

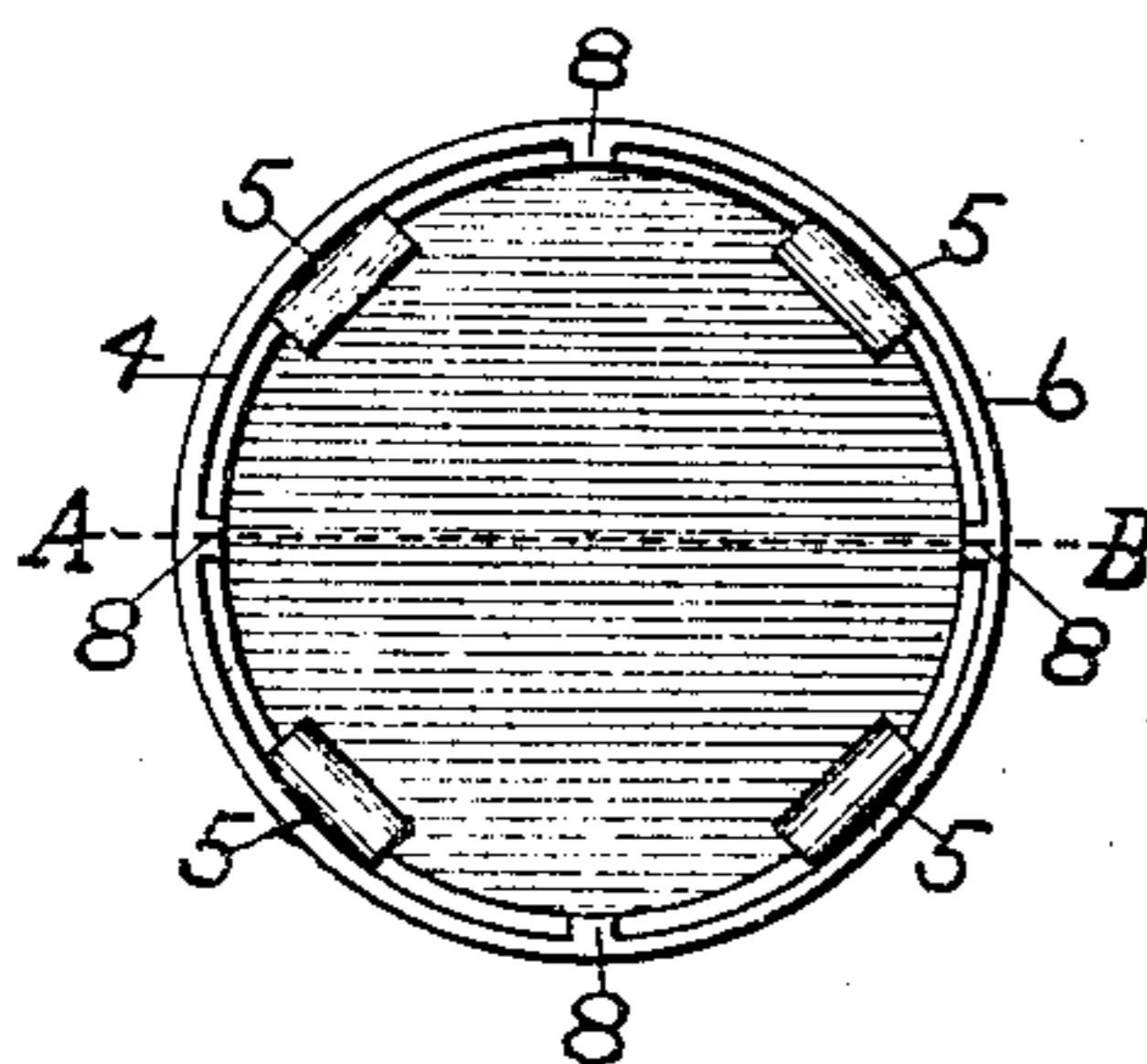
*Fig. 1.*



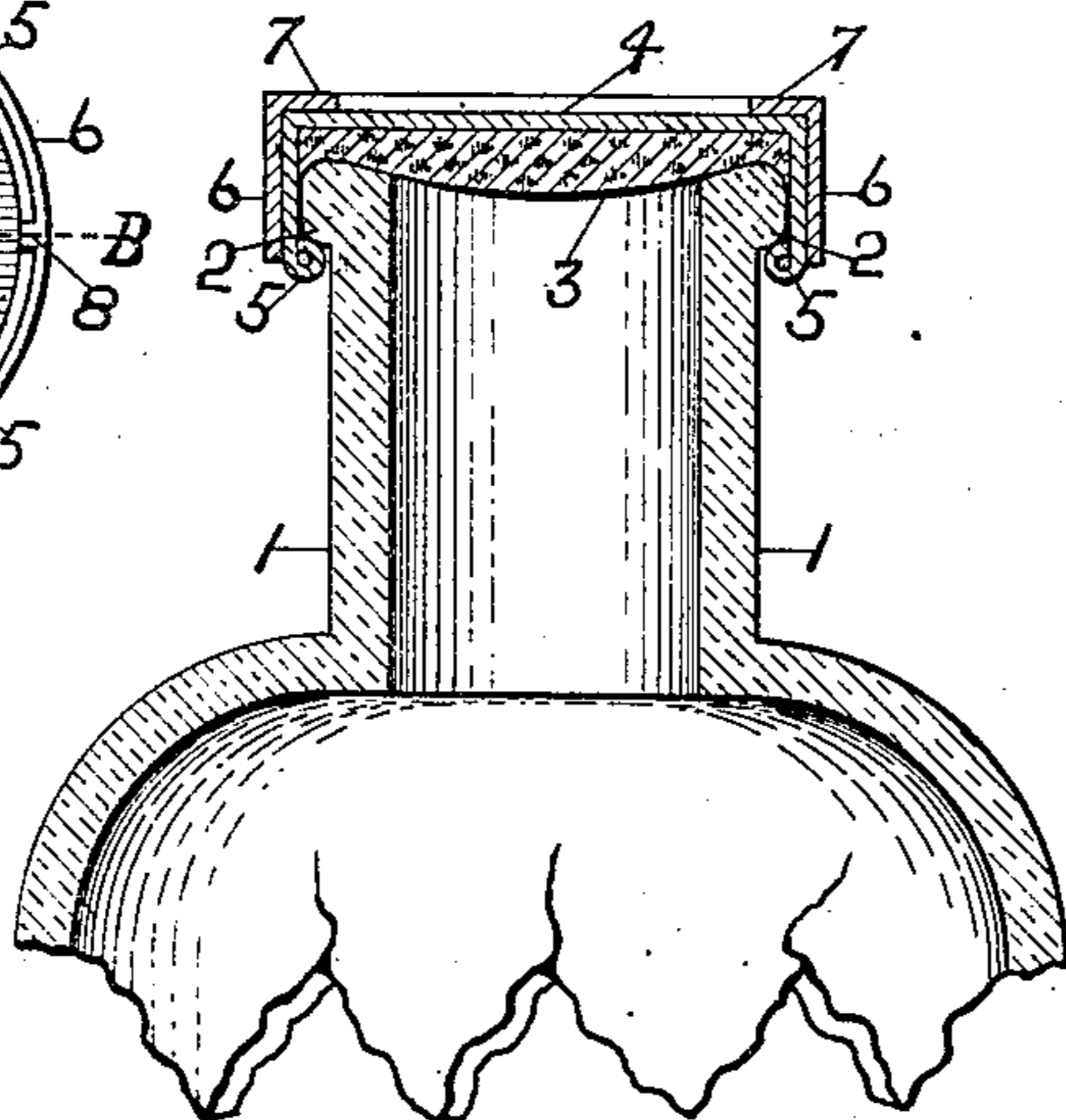
*Fig. 4.*



*Fig. 3.*



*Fig. 2.*



Witnesses.

John H. Smith  
Attest

Inventor.

William F. Purcell

# UNITED STATES PATENT OFFICE.

WILLIAM F. PURCELL, OF BROOKLYN, NEW YORK.

## BOTTLE-STOPPER.

No. 835,366.

Specification of Letters Patent.

Patented Nov. 6, 1906.

Application filed December 7, 1905. Serial No. 290,766.

*To all whom it may concern:*

Be it known that I, WILLIAM F. PURCELL, a citizen of the United States, and a resident of the borough of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Bottle-Stoppers, of which the following is a specification.

This invention relates to stoppers for bottles, jars, or similar vessels of that class in which the closure is obtained by the pressing down and holding by suitable means over the mouth of such vessel a cap or cover having interposed between it and the vessel a disk or washer of packing material; and the object of my improvement is to provide for such vessels a stopper of neat appearance and in expensive construction which can be readily applied and removed. I attain this object in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the neck of a bottle and a stopper made in accordance with this invention, showing the outer casing of the stopper as being partly broken away and the parts in the position which they assume when the stopper is being put on or taken off the bottle. Fig. 2 is a central longitudinal section of the same, showing the position of the parts when the stopper is closed or sealed on the bottle. Fig. 3 is a plan of bottom of stopper, and Fig. 4 is a section of Fig. 3 on the line A B.

Similar figures refer to similar parts throughout the several views.

Referring to Figs. 1 and 2, 1 is the neck of the bottle. 2 is an exterior shoulder on the same. 3 is a disk of cork, rubber, or other suitable material, Figs. 2 and 4. 4 is a cap, preferably of metal, and having a plurality of depending fingers 5, so shaped as to be capable of gripping under and against the lower surface of the shoulder 2 when pressed inward toward the neck of the bottle. The particular shape of the depending fingers 5 shown in the drawings is not essential and may be modified to suit the particular shape of shoulder on vessel to which stopper is to be applied. 6 is an annular member, shown as a sleeve or ring, preferably made of metal, fitted over the cap 4 and adapted to be forced down over the depending fingers 5 for the purpose of inclosing and pressing them inward. This

sleeve or ring is provided at the top with an inwardly-turned flange 7, being substantially a cap with an aperture in the top, and at the bottom with inwardly-turned projections 8, Figs. 3 and 4, to limit its movement upward and downward with relation to the cap 4 and for the purpose of keeping the parts together, this being my preferred form of this member.

In applying the stopper to a bottle the sleeve or ring 6 may be taken between the thumb and second finger, the first finger being inserted through the aperture in the top to press downward the cap 4 until its lower edge rests on the inward projections 8, thus causing the depending fingers 5 to extend below the lower edge of sleeve or ring 6 and allowing them to open outward to pass the shoulder on neck of vessel 2, Figs. 1 and 2, thereby bringing the packing material 3, Figs. 2 and 4, in contact with the mouth of the vessel, as shown in Fig. 1. The sleeve or ring 6 is then forced down over the depending fingers 5, as shown in Fig. 2, thereby pressing them inward against the inclined lower surface of the shoulder on the neck of vessel 2, the effect being to draw the cap 4 downward on the packing material 3 and compress it against the mouth of the vessel to effect the closure.

To remove the stopper, the sleeve or ring 6 is drawn upward until its lower edge is brought above the depending fingers 5 and the inward projections 8 engaging the lower edge of the cap 4. Both parts may be removed together.

I claim as my invention—

1. A bottle or vessel stopper comprising a cap provided with an internal packing-disk, and having depending fingers capable of engaging an exterior shoulder below the mouth of said vessel when pressed inward toward its neck; in combination with an annular member fitted over said cap, and having an inwardly-turned flange at its top, and inward projections at its bottom for the purpose of limiting its movement longitudinally with relation to said cap; and adapted to be forced longitudinally over said fingers to press them inward.

2. A bottle or vessel stopper comprising a cap provided with an internal packing-disk, and having depending fingers capable of en-

gaging an exterior shoulder below the mouth  
of said vessel when pressed inward toward  
its neck, in combination with a continuous  
annular member permanently embracing,  
5 closely fitting and movable longitudinally  
and circumferentially on the cap and having  
a projection engaging the cap to limit its  
downward movement.

Signed at No. 58 East Eighth street, in the  
county of New York and State of New York, 10  
this 5th day of December, A. D. 1905.

WILLIAM F. PURCELL.

Witnesses:

JOHN H. SMITH,

CHARLES HARFT.