No. 782,711. PATENTED FEB. 14, 1905.

W. H. WHEELER.

STOPPER EXTRACTOR.

APPLICATION FILED MAR. 1, 1904.

Fig. 1.

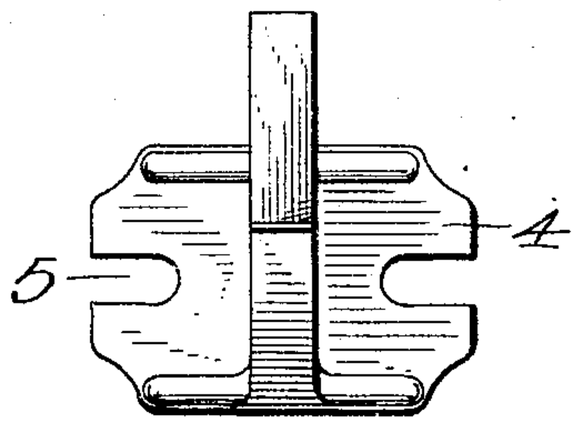


Fig. 2.

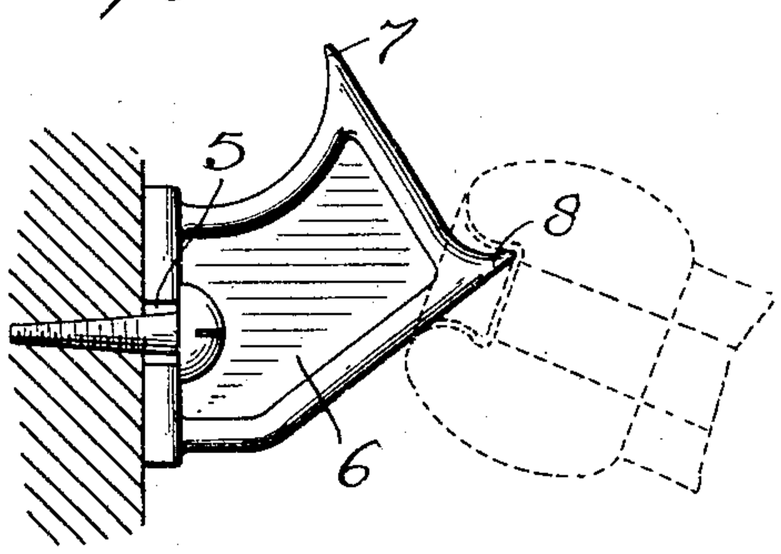
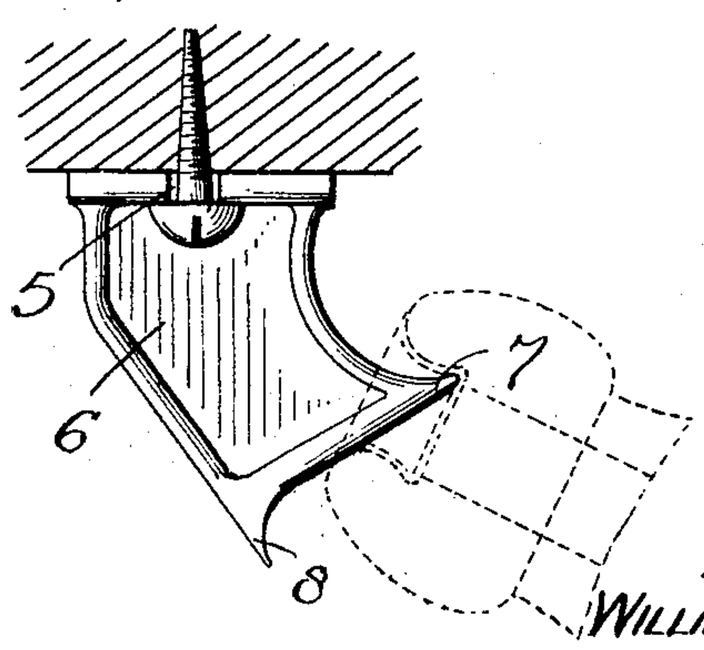


Fig. 3.



ATTEST:
C. F. Middleton
Edward T. Reed

INVENTOR
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ATTY'S

No. 782,711. Patented February 14, 1905.

UNITED STATES PATENT OFFICE.

WILLIAM H. WHEELER, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE CROWN CORK AND SEAL CO., OF BALTIMORE, MARYLAND, A CORPORATION OF MARYLAND.

STOPPER-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 782,711, dated February 14, 1905.

Application filed March 1, 1904. Serial No. 196,193.

To all whom it may concern:

Be it known that I, WILLIAM H. WHEELER, a citizen of the United States, residing at Baltimore, Maryland, have invented certain new and useful Improvements in Stopper-Extractors, of which the following is a specification.

My invention set forth herein is a bottle-opening fixture for removing bottle-stoppers adapted to be used either on a vertical or under a horizontal surface.

It consists in a special simple form easily and cheaply made and adapted to operate equally well in either position. It is illustrated in the accompanying figures, in which—

Figure 1 is a view of the device unattached. Fig. 2 is a view of the same secured to a vertical stationary surface and the manner of use in this position; and Fig. 3 is a similar view of the device attached to a horizontal support, as the under side of a table or counter.

This form shown is especially adapted to be applied to what is known in the trade as the Aluminium "stopper;" but it may by a slight change in the engaging edge be used with other forms of stoppers. It consists of a flat base-plate 4, having openings 5 in the edges for the fixing-screws. On this is fixed a bracket or frame 6 in plane at right angles to the base. In opening bottles by a fixed opener it is necessary that the bottle when in engagement with the opener should have its mouth elevated to prevent spilling, and this elevated position of the mouth should be maintained whatever lever-like movement of the bottle may be necessary in wrenching off the stopper. This must be provided for in the construction of a device intended for horizontal or vertical position. I have accomplished this by means of two bearing edges or surfaces on the frame or bracket 6, with spurs or edges 7 and 8 at the extremities of their surfaces. The bearing-surface between the engaging points 7 and 8 is so arranged in relation to the base that when the base is fixed under a horizontal surface, as shown in Fig. 3, the bottle will be, when in engagement for opening, in the required inclined position there indicated, and an easy downward pressure upon the bottle as upon a lever will pry off the stopper. This arrangement of the bearing-surface just described is inclined to the base, and this gives the bottle in engagement the proper inclined position, changed to vertical in the act of removal by the downward pressure.

When the device is fixed to a vertical surface, as shown in Fig. 2, the straight edge of the bracket is below the engaging point 8, which operates in that position. This edge or bearing-surface is approximately at right angles to the one first described, or at about the same angle (reversely) to the base as the surface between points 7 and 8. The result therefore is the same both in the engaging position of the bottle and its position at the end of the opening movement. The engaging points are respectively at the upper ends of their bearing-surfaces, on which the bottle-mouth fulcrums.

I preferably form this device in one piece, and it is accommodated to the user whether he require a vertical or horizontal position of the base.

I claim—

A bottle-opening fixture consisting of a base and a bracket fixed thereto, having two bearing-surfaces, equally and reversely inclined to the base, and an engaging point or edge at the extremity of each bearing-surface, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. WHEELER.

Witnesses:

HOWARD D. ADAMS,

HARVEY COALE.