

M. PILZ.
BOTTLE AND STOPPER.
APPLICATION FILED FEB. 9, 1909.

958,169.

Patented May 17, 1910.

Fig. 1.

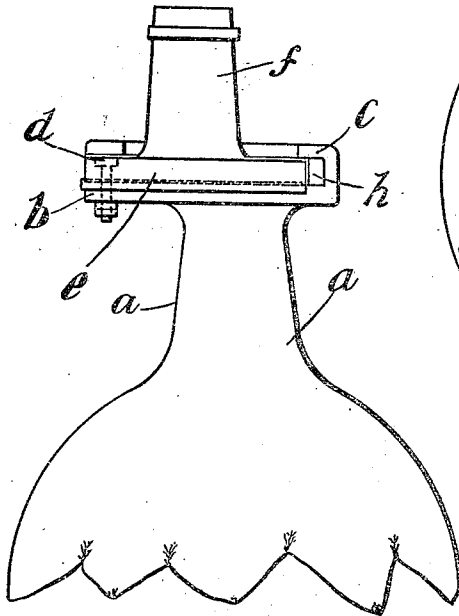


Fig. 2.

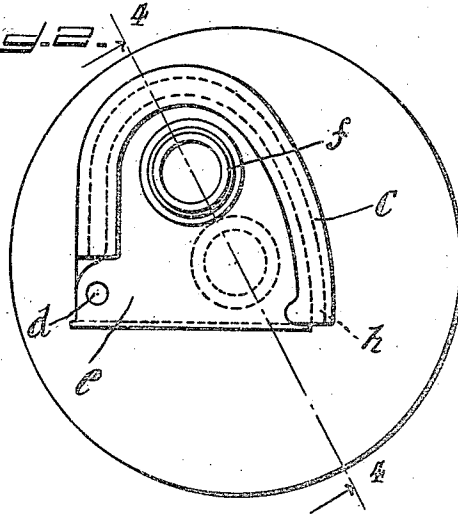


Fig. 3.

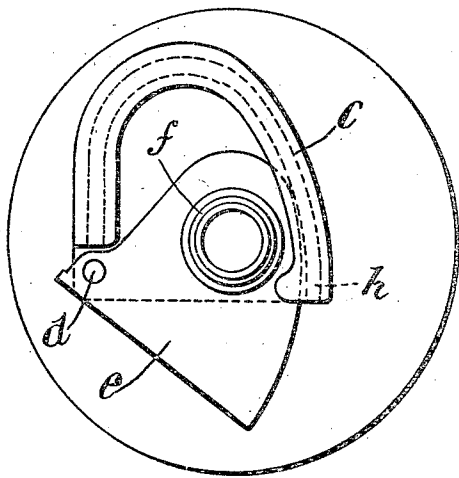
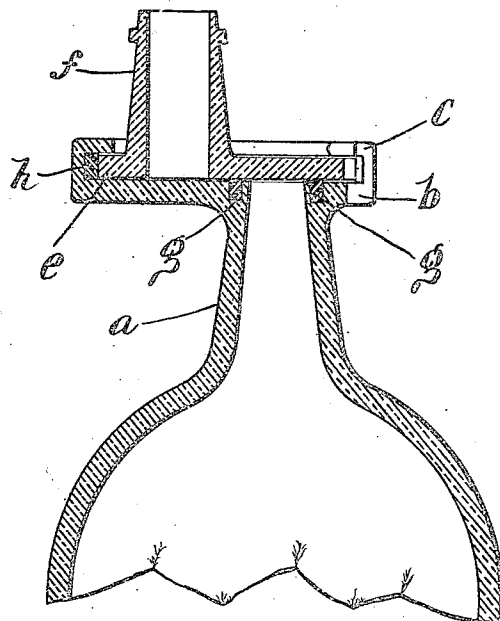


Fig. 4.



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UNITED STATES PATENT OFFICE.

MORIS PILZ, OF BROOKLYN, NEW YORK.

BOTTLE AND STOPPER.

958,169.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MORIS PILZ, a subject of the Emperor of Austria-Hungary, residing at Brooklyn, in the county of Kings and State of New York, have invented new and useful Improvements in Bottles and Stoppers, of which the following is a specification.

This invention relates to a bottle having a stopper or closing means which can be readily opened to allow the bottle to be filled by a filling machine and which enables the bottle to be closed before it is taken out from under the filling machine.

This invention is set forth in the following specification and claim and illustrated in the accompanying drawing in which:—

Figure 1 shows an elevation of the bottle the stopper being closed. Fig. 2 is a plan view of Fig. 1 the stopper or outlet being closed. Fig. 3 is a view like Fig. 2 the outlet being open. Fig. 4 is a section along line 4 4 Fig. 2.

In this drawing, there is shown a bottle neck *a* which is formed at its top with a circumscribing lateral extension *b* having a portion of its edge provided with an upstanding rim, said rim being formed at its upper edge with a continuous, in-turned flange *c*. About a pivot or pintle *d* on the extension *b* can swing the plate-like part or base *e* of the stopper, there being formed upon the plate a tubular outlet part *f*. The neck *a* at its outlet portion is shaped to seat a gasket *g*, which projects upward to sit snugly against plate *e*. In the space between the base or plate *e* and the overhanging flange *c*, above referred to, there is interposed a packing strip *h* which is fitted closely against the rim, as clearly shown in Fig. 4. The rim is approximately U-shaped, that leg thereof which is opposite the pivot *d* being, however, slightly bowed. Hence, when the stopper is swung outwardly so as to bring the tubular part *f* thereof into registration with the bore of the bottle neck, the edge of the plate *e* will be moved into frictional engagement with said strip, as

shown in Fig. 3, whereupon the swinging movement of the stopper will be terminated, and the stopper will be held in position by reason of such engagement. A somewhat similar engagement between the plate and the packing strip takes place when the stopper is moved inwardly, so that it will be apparent that the stopper will be held against accidental displacement both in open and in closed position. The gasket *g* will prevent leakage when the bottle is closed as this gasket projects or sits tightly against the swinging plate *e*.

When the bottle is shipped the upper or mouth end of tube *f* could be covered by a suitable capsule. When the capsule is removed to pour out part of the contents of the bottle the capsule need not be replaced as the plate *e* when swung to closing position will seal or close the bottle so that the contents are protected or such part of the contents as may be left temporarily in the bottle.

What I claim is:—

The combination, with a bottle neck formed at its top with a lateral extension having an upstanding U-shaped rim provided at its upper edge with an in-turned flange; of a packing strip interposed between said extension and flange and fitted against the inner wall of said rim; a plate pivoted to said extension adjacent the free end of one leg of the rim; and a tubular outlet formed upon the plate, said plate being arranged for bodily swinging movement outwardly between the legs of the rim into binding engagement with that portion of the strip adjacent the other leg, to bring said outlet into registration with the bore of the bottle neck and to effect its retention in such position.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

MORIS PILZ.

Witnesses:

W. C. HAUFF,
CHRISTIAN ALMSTAEDT.