N° 13,526



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COMPLETE SPECIFICATION.

"Improvements in Bottle-stoppers"

I, HERMANN BÖGELMANN, Dairy-keeper, of 191 Invalherstrasse, in Crefeld in the Kingdom of Prussia German Empire do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The present invention relates to bottle stoppers and has for its object the provision of a simplified form of stopper which is especially adapted for milk bottles. The form and arrangement of the spring bail for maintaining the closure of the bottle is the principal feature of the present invention; a second important feature being the plug, the construction of which is such as to preclude the possibility of the above mentioned bail being damaged by improper opening of the bottle, or by shock or blow.

In order that the invention may be clearly understood, it will now be described in detail with reference to the accompanying drawings, which illus-

trate two embodiments of the same.

15 Fig. 1 is a part sectional front elevation of a bottle provided with the new stopper, and

Fig. 2 is a side elevation of Fig. 1

Fig. 3 is a front elevation of the top of a bottle provided with a modified form of the stopper, and

Fig. 4 is a side elevation of Fig. 3

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Referring more particularly to Figs. 1 and 2, the bottle is closed by means of the plug 2, which may suitably be made of porcelain. This plug is provided with a rubber or other gasket 1, so as to sit tightly in the mouth of the bottle-head. 7. The wire bail is made preferably in one piece and may be plated to protect it from oxidation and rust. The horizontal portion 4 of the bail passes through the hole 3 in the plug and at the lower part 9 the bail is bowed so as to embrace the bottle-neck to the extent of, say three-fourths of its circumference. Between the limb 4 and the bow 9 the bail bent upwards at 12 at each side is spirally coiled about a vertical axis, as shown at 5 and 6, so as to afford resilience.

The two ends of the bail may be united in any suitable manner, such as by being bent to form interlocking eyes 11, or by being soldered or the like.

In stoppering the bottle 8 it is merely necessary to press the plug down upon the bottle-mouth, and then to slightly draw the bow downwards, whereupon it can be snapped round the bottle-neck below the shoulder presented by the bottom of the head 7.

In the modification shown in Figs. 3 and 4, the bail between the limb 4 and the ends 12 of the bow 9 instead of presenting vertical spiral springs as shown in Figs. 1 and 2, is wound or coiled preferably circularly about a horizontal axis as shown at 10, 10.

The plug 2 is here drawn as having a semi-spherical head, and the limb 4 of the bail lies but slightly above the bottle mouth, so that there are no prominently projecting parts presented. This precludes the danger of the stopper

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Bögelmann's Improvements in Bottle-stoppers.

being accidentally unseated by shock or blow, and of the bail being injured by the plug being improperly, forcibly raised without the bail having been first released. Instead of the semi-spherical form, any other rounded shape may naturally be given to the head.

Having now particularly described and ascertained the nature of my said 5 invention, and in what manner the same is to be performed, I declare that what I claim is:

1.) A bottle stopper having a plug, held in the mouth of the bottle by means of a bail, which presents a bowed portion embracing the bottle neck, and lateral portions which are coiled or wound to afford resilience, substantially as described.

2.) A form of the stopper specified in Claim 1, according to which the spring bail is made of a single piece of wire, the ends of which are united by being bent to form interlocking eyes, or by means of solder, or in any other suitable manner, substantially as described.

3.) A form of the stopper specified in Claims 1—2, according to which one limb of the bail passes through a horizontal hole in the plug, substantially as described.

4.) A form of the stopper specified in Claims 1—3, according to which the head of the plug is of semi-spherical shape, or otherwise rounded, so as to preclude the danger of its being accidentally unseated, substantially as described.

5.) A form of the stopper specified in Claims 1—4, according to which the resilience is imparted to the bail by the lateral portions thereof being coiled round a vertical axis, substantially as described.

6.) A form of the stopper specified in Claims 1—4, according to which the resilience is imparted to the bail by the lateral portions being coiled or wound (preferably circularly), round a horizontal axis, cubstantially as described.

7.) The general construction, arrangement and combination of parts forming a bottle-stopper, substantially as described and illustrated in Figs. 1 and 2.

8.) The general construction, arrangement and combination of parts forming a bottle stopper, substantially as described and illustrated in Figs. 3 and 4.

Dated this 20th day of May 1904.

HERMANN BOGELMANN, By: Henry O. Linck Civil Engineer.

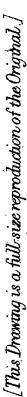
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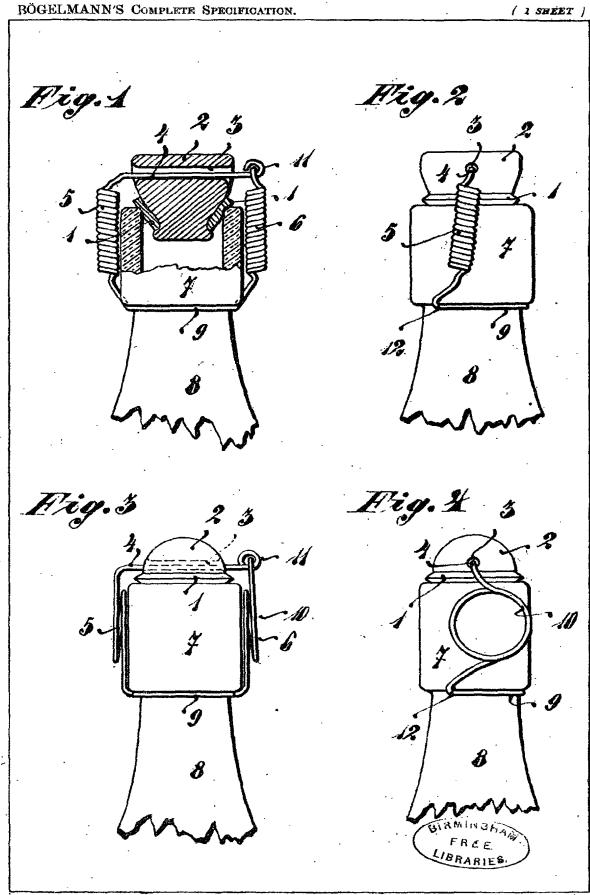
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