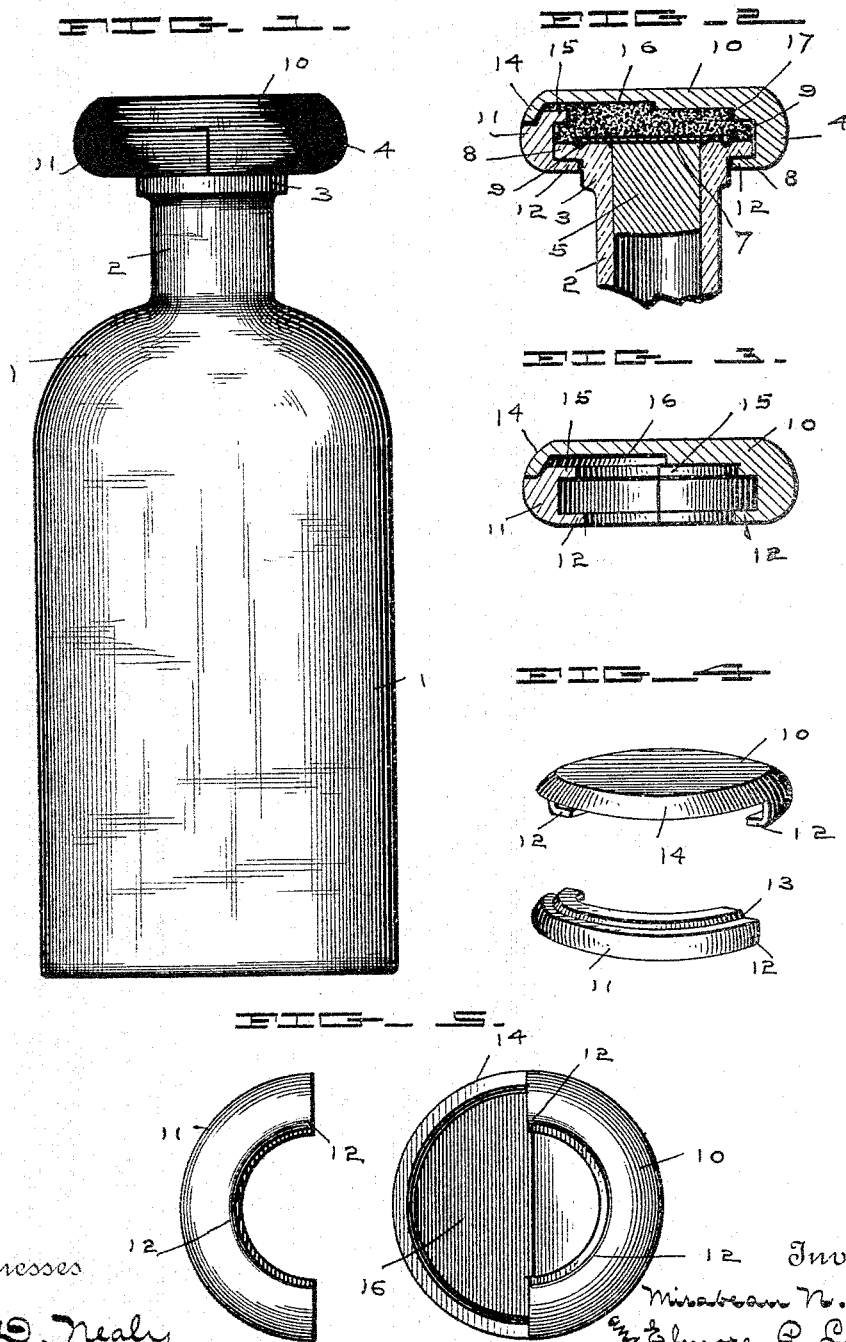


(No Model.)

M. N. & E. P. LYNN.
BOTTLE SEALING DEVICE.

No. 491,432.

Patented Feb. 7, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

MIRABEAU N. LYNN, OF RISING SUN, INDIANA, AND ELMORE P. LYNN, OF CINCINNATI, OHIO.

BOTTLE-SEALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 491,432, dated February 7, 1893.

Application filed June 22, 1892. Serial No. 437,668. (No model.)

To all whom it may concern:

Be it known that we, MIRABEAU N. LYNN, of Rising Sun, county of Ohio, and State of Indiana, and ELMORE P. LYNN, of Cincinnati, county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Bottle-Sealing Devices; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like figures refer to like parts.

Our invention relates to a new and useful improvement in the construction of bottle sealing devices, and will be understood from the following description.

In the drawings, Figure 1 represents a side elevation of our improved bottle, showing the same after it is sealed. Fig. 2 is a central vertical section of the upper part of the same, showing it after it is sealed. Fig. 3 is a cross section through the cap. Fig. 4 is a detail perspective view of the two sections of the cap. Fig. 5 is an under side view of the same.

In detail, 1 represents the body of the bottle, 2 the neck, and 3 the re-inforcement of the same.

8 is an annular flange formed at the upper end of the re-inforcement, and 9 is a groove cut around the top of the same on a line with its connection with the ring 8.

4 is a cap designed to fit over the mouth of the bottle, consisting of two sections 10 and 11, the larger section of the same having a lid extending over the mouth of the bottle, and both sections having a flange 12 at the bottom adapted to fit below the annular flange 8, whereby the cap is held on to the neck of the bottle. On the section 11 of the cap is a groove 13 about the upper and outer portion of the same, the section 10 having a flange 14 curved downward and adapted to fit in the groove 13 in the other section 11. The section 11 has likewise a flange on the inside and upper part of the same at 15. The section 10 of the cap is cut or hollowed out on one half of the under part of the same at 16.

17 is a cement or other suitable sealing material with which the cap is filled, holding the same in place.

7 is a paper seat fitting over the mouth of the bottle, to keep the sealing material from

contacting with the mouth of the bottle or the cork 5.

After the bottle is blown and formed with a projecting ring 8 thereon, the groove 9 between such annular flange and the neck at the mouth of the bottle is cut out by a diamond, or may be formed in any other suitable manner. After the bottle is filled and corked, and the seat made of paper or any other suitable material is placed over the mouth of the same, the larger section 10 of the cap 4 is inverted and filled with cement or other suitable sealing material. The inverted neck of the bottle is then put in place, and before the cement hardens the other section of the cap 4 is put in place, and the bottle forced down, so that when the sealing material hardens the two sections of the cap are effectually locked together by the sealing material between the upper flange of the smaller section 11 of the cap and the other section of the same. The cement also is filled beneath the flange 9 and the annular flange 8, so that the section 11 cannot move upward or downward, and the larger, upper section of the cap, because of the sealing material adhering to its entire surface and filling in on both sides of the annular flange 8 between the upper part of such section 10 and the lower flange 12 of the same cannot be moved upward, so that the flange 14 of such section, which fits in the groove made in the section 11 of the cap, holds such section 11 in place, preventing it from being moved laterally. By this means the sections of the cap are locked together effectually, and cannot be removed unless the cap be broken. When it is desired to open the bottle, a slight blow against the side or on the bottom of the cap will break the annular flange 8 from the neck of the bottle on a line with the groove 9, and allow the cap to be easily lifted off. Thus, it will be seen, that our sealing device is simple and effective, and will protect the contents of such bottle, for the reason that the same cannot be reached without mutilating the bottle and seal, and yet after the annular flange 8 and the cap are knocked off, a useful and ordinary bottle remains.

What we claim as our invention and desire to secure by Letters Patent is the following:—

1. A bottle having about the neck thereof at the mouth an annular flange which is partially separated on the upper side from the neck of the bottle by means of a cut or groove, 5
5 a cap adapted to fit over the mouth of such bottle and under the projecting ring which can be removed only by a blow breaking off the annular flange, substantially as shown and described.
- 10 2. A bottle having a projecting ring or flange formed around the neck near the mouth of the same, with a groove on the upper side thereof partially separating the same from the neck of the bottle, a cap fitting over 15
the mouth of such bottle, a flange of such cap fitting around and under such annular flange, such cap filled with sealing material, whereby it is held firmly in place, a seat over the 20
mouth of the bottle separating the sealing material from the same, the whole adapted to be removed only by breaking away the annular flange, substantially as shown and described.
- 25 3. In a bottle, a sealing device consisting of a cap formed in two sections adapted to interlock with each other in place over the mouth of the bottle and filled with sealing material, an annular flange around the neck of the bottle at the mouth to hold on such cap and so 30
made as to be readily broken off by a blow from beneath when it is desired to open such bottle, substantially as shown and described.
- 35 4. In a bottle, a sealing device consisting of a cap formed in two sections, such sections grooved about the inside periphery thereof so as to fit over an annular flange formed at the mouth of such bottle about the neck thereof, such flange so made as to be readily broken 40
open such bottle, substantially as shown and described.
- 45 5. In a bottle, a sealing device consisting of two sections, both of such sections having flanges around the lower part of the same to fit over an annular flange about the neck of the bottle at the mouth thereof, one of such sections having as a part thereof a lid fitting over the entire top of the bottle, and on one side having a flange adapted to fit in a groove formed on the other section of such cap, 50
whereby such sections when held in place by sealing material will effectually lock, substantially as shown and described.
- 55 6. In a bottle, a sealing device consisting of a ring about the neck at the mouth of the bottle, a cap formed in two sections, each adapted to fit over such annular flange, one of such sections having as a part thereof a lid fitting over the entire top of the bottle, and having 60
a flange on one side adapted to fit in a groove in the smaller section of such cap, such section having a flange extending inwardly so that when such cap is filled with sealing material, the sealing material will be filled in between such flange of the cap and the annular 65
flange on the neck of the bottle, whereby such section on the cap is held firmly in place, substantially as shown and described.
- 70 7. In a bottle, a sealing device consisting of a cap formed in two sections, each section having a flange adapted to fit about and beneath an annular flange about the neck of the bottle at the mouth, one section of the same having a lid extending across the top of the bottle, and having a flange on the edge of such 75
lid, the other section having a groove on the upper part thereof, so that the flange on such lid will fit in such groove and prevent such section from being moved outward, a flange on the upper part of such smaller section extending inward with cement above and below it, so that it cannot be moved vertically, a seat fitted over the mouth of such bottle, 80
such cap filled with sealing material, whereby the lower flanges thereof are held firmly against the lower part of such projecting ring around the neck of the bottle, and the upper parts are firmly held and locked together, so that such cap cannot be removed without breaking away such annular flange, substan- 85
tially as shown and described.
- 90 In witness whereof we have hereunto set our hands this 19th day of May, 1892.
MIRABEAU N. LYNN.
ELMORE P. LYNN.
- Witnesses:
CHAS. M. PECK,
J. THOMSON CROSS.