

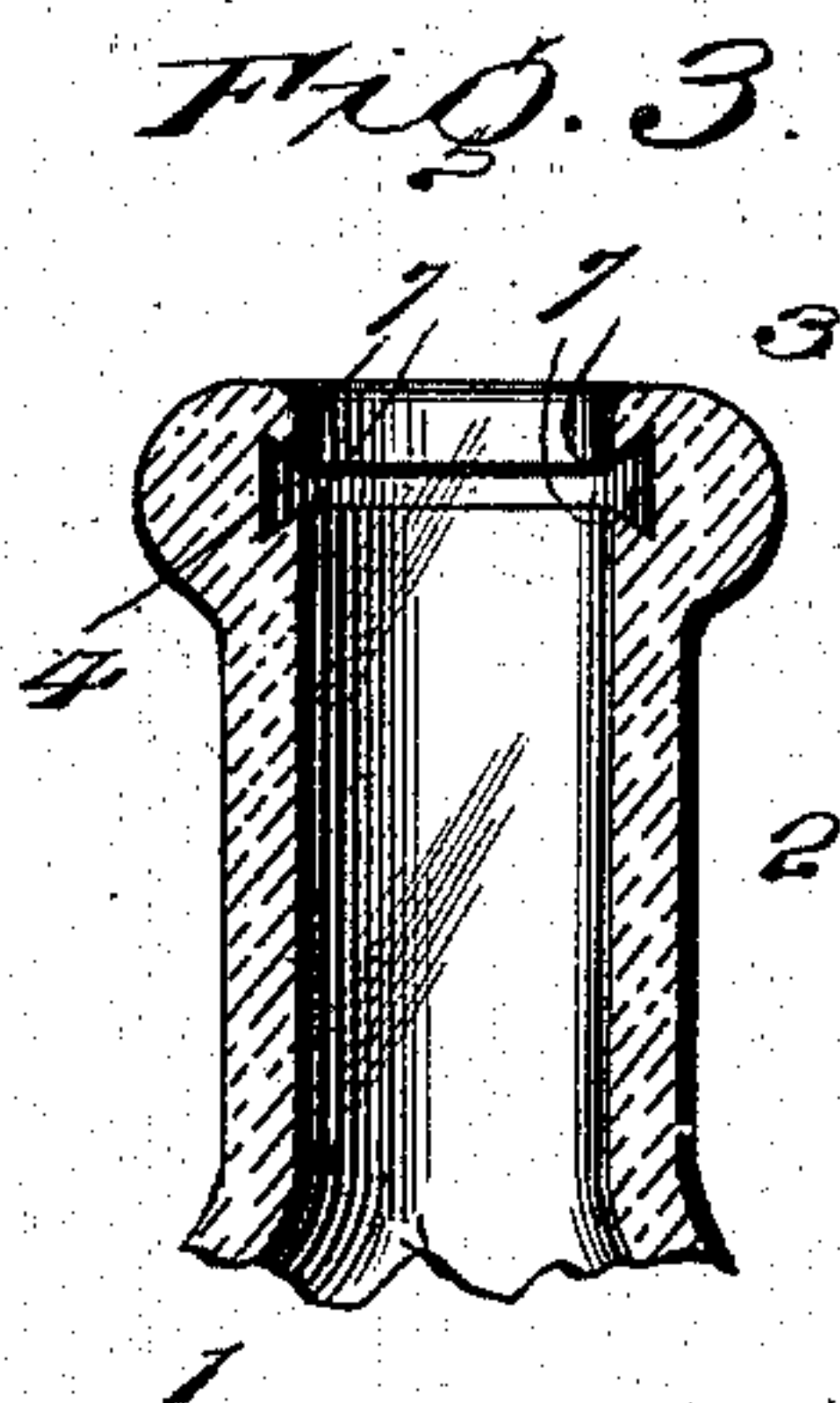
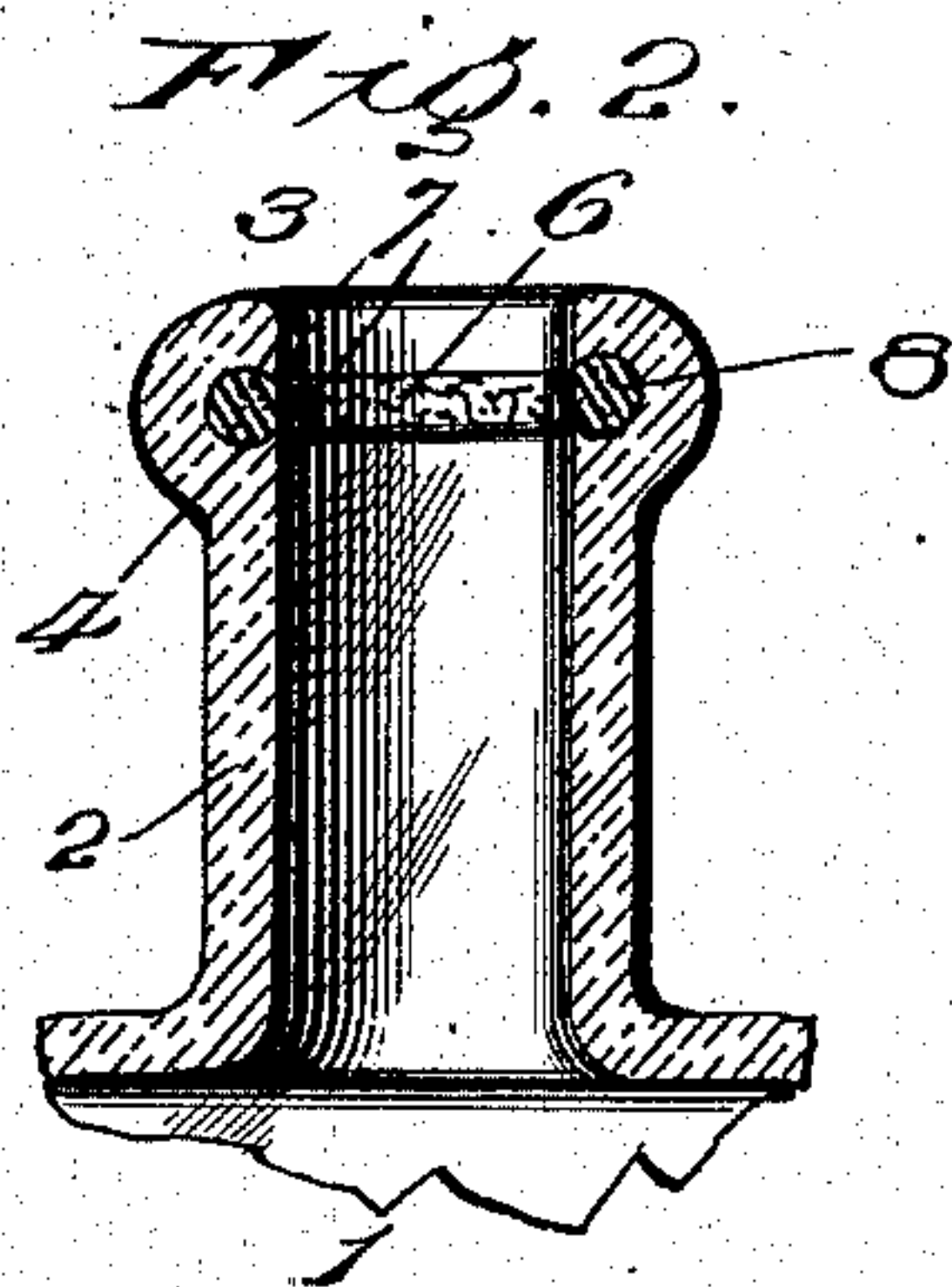
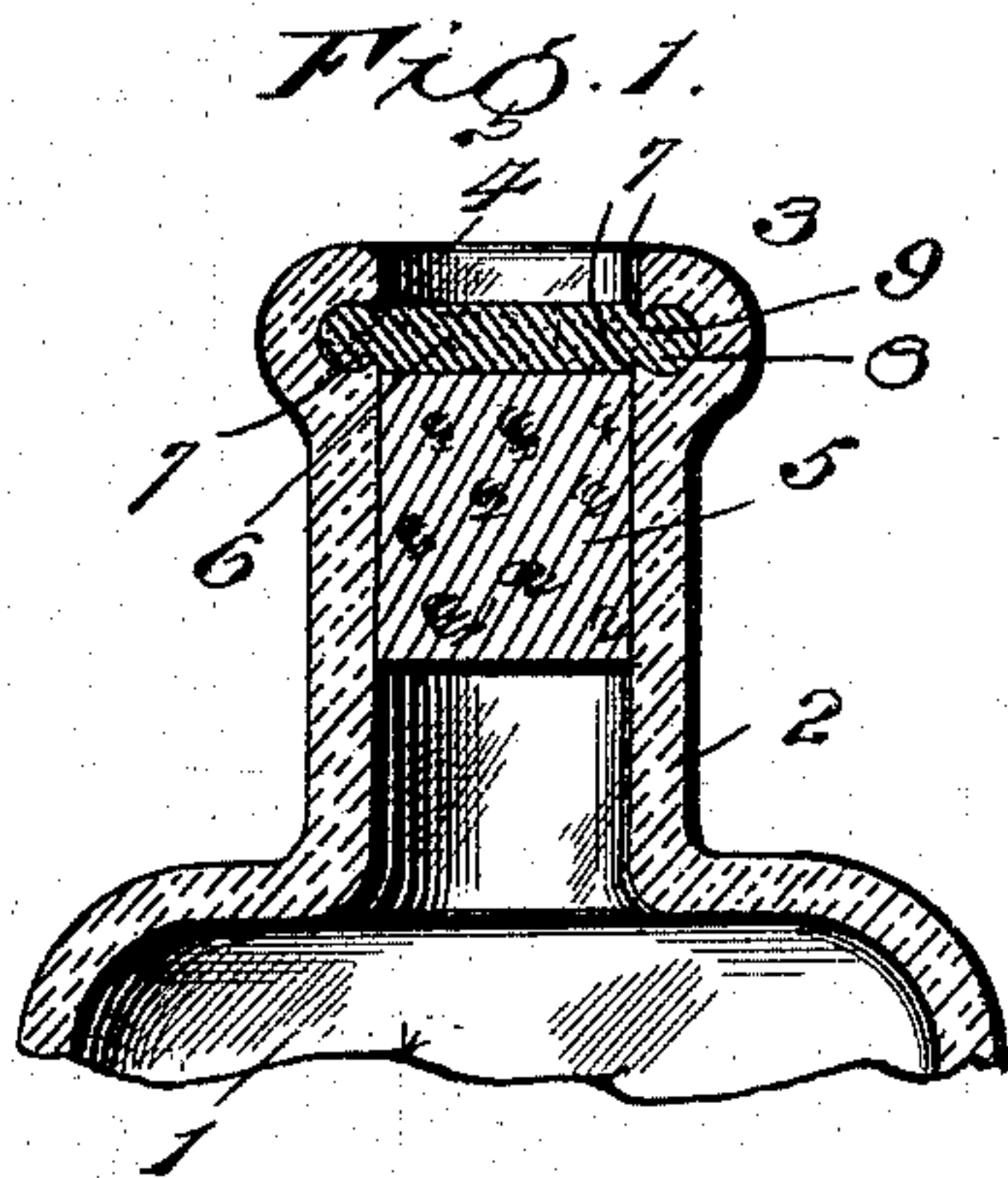
No. 714,326.

Patented Nov. 25, 1902.

L. D. PARKS.
BOTTLE CLOSURE.

(Application filed Apr. 12, 1902.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

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BOTTLE-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 714,326, dated November 25, 1902.

Application filed April 12, 1902. Serial No. 102,627. (No model.)

To all whom it may concern:

Be it known that I, LEONARD D. PARKS, a citizen of the United States, residing at Gatesville, in the county of Coryell and State of Texas, have invented certain new and useful Improvements in Bottle-Closures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to the class of articles generally known as "bottles," and has for its object to provide extreme simplicity of construction, so that little difficulty will be experienced in the manufacture and utilization of the bottle or receptacle.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section of the upper portion of a bottle, showing the application of the invention. Fig. 2 is a view similar to Fig. 1 with the cork removed. Fig. 3 is a detail view of a modification.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The bottle or receptacle 1 may be of any shape or outline preferred and has formed upon the neck portion 2 and approximately near the mouth thereof a swelled portion 3. An annular groove 4 is also formed upon the inner circumference of the neck at the swelled portion of same. The groove 4 may be of any desired depth or shape in cross-section, being either circular, dovetail, or otherwise. The closure for the bottle consists of the ordinary cork or stopper 5, which is forced into the bottle to a depth to uncover the annular groove 4.

Above the stopper 5 is placed a layer of

plastic material 6 or the like, which may be composed of either cement, wax, solder, or analogous substance. This filler 6 is placed in the neck of the receptacle in its plastic or molten state and enters and fills the annular groove 4, being retained within the neck of the bottle by the lips 7, formed upon each side of the groove. These lips 7 serve not only to effectually hold the plastic seal or filler within the neck, but prevent that portion of the same within the groove from being removed. Also they weaken the surface of the filler at the edge, so that it may be easily broken out from and away from the cork when it is desired to extract the latter. The trade-mark or other imprint of the firm using the bottle may be impressed upon the filler while in its plastic or soft state, thus doubly insuring the bottle against being reused without detection.

In carrying out the invention the stopper 5 is first forced within the neck of the bottle in the manner described. The filler 6 is then placed above the said stopper while same is in its plastic state. This filler hardening becomes a solid seal, and when it is desired to withdraw the contents of the receptacle the same must be broken away, and the cork 5 thereby exposed may be removed.

The portion of the filler within the annular groove 4 having hardened, it is impossible to remove same. To the purchaser this will of course indicate that the contents of the bottle or receptacle are not those of the original seller.

The swelled or enlarged portion at the mouth of the bottle-neck would be blown in the process of manufacture, the groove therein being formed at the same time.

The seal constitutes, in effect, a detector and comprises a body portion and a peripheral portion 8, designated as the "interlocking" portion, since it enters the groove or seat 4 and is retained therein by the opposing lips 7 even after the central portion is removed, as shown in Fig. 2. A break-line 9 is formed in each side of the detector and corresponds with the inner circumference of the neck and with the lips 7, the break-lines in both sides of the detector being in coincident

relation to facilitate the removal of the central portion of the detector when struck a smart blow by the handle of a corkscrew or other implement conveniently at hand. This
5 leaves a smooth passage for the exit of the cork or closure when being extracted. The interlocking portion 8 is retained in the groove 4 by the lips 7 and cannot be removed even though the part 8 be cracked or broken in a
10 number of places.

Having thus described the invention, what is claimed as new is—

1. A necked receptacle having a groove in the inner wall of its neck to receive the edge
15 portion of a seal, and lips at the open side of the groove extended inward from the walls thereof toward each other and terminating in edges about in line with the inner walls of the neck, said lips serving to determine the line
20 of separation between the middle and edge portions of the seal and to retain said edge portion within the groove after the central por-

tion of the seal has been removed, substantially as described.

2. In combination, a necked receptacle hav- 25
ing a groove in the inner wall of its neck, lips at the open side of the groove extended inward from the walls thereof toward each other and terminating in edges about in line
30 with the inner walls of the neck, and a seal comprising a central body portion and a peripheral portion, lines in opposite sides of the seal separating the central and peripheral
35 portions and conforming to the aforesaid lips, the peripheral portion of the seal being seated in the groove and held in place therein by said lips after the central portion of the seal is removed, substantially as specified.

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

LEONARD D. PARKS. [L. S.]

Witnesses:

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