

(No Model.)

L. S. RIGGS.
FILLING SYRINGES.

No. 477,961.

Patented June 28, 1892.

Fig. 1.

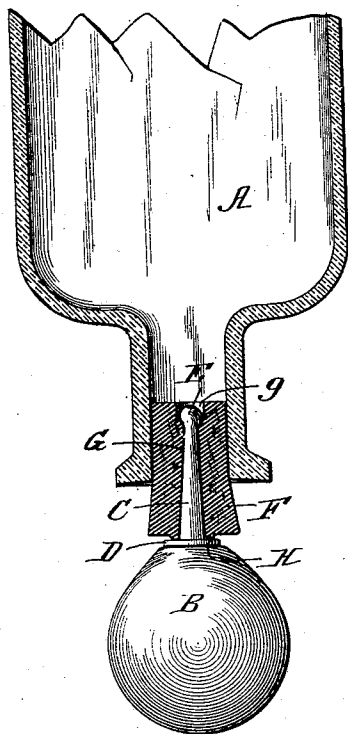
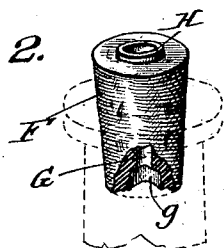


Fig. 2.



WITNESSES:

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BY

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UNITED STATES PATENT OFFICE.

LEWIS S. RIGGS, OF SELMA, ALABAMA, ASSIGNOR OF TWO-THIRDS TO ALLEN P. HOWISON AND JOHN G. MURRAY, OF SAME PLACE.

FILLING SYRINGES.

SPECIFICATION forming part of Letters Patent No. 477,961, dated June 28, 1892.

Application filed November 20, 1891. Serial No. 412,493. (No model.)

To all whom it may concern:

Be it known that I, LEWIS S. RIGGS, of Selma, in the county of Dallas and State of Alabama, have invented a new and useful Improvement in Filling Syringes, of which the following is a specification.

This invention is an improvement in filling syringes; and it consists in certain novel constructions and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 shows the improvement in connection with a portion of a bottle, the stopper being shown in section; and Fig. 2 is a perspective view of the stopper in connection with the neck of the bottle.

The bottle A may be of ordinary construction, as may also be the syringe B, but the latter preferably has its nozzle C provided at its base with a disk or plate D, forming a bearing, and at its point with a head E. The stopper F has an opening G formed entirely through it. This opening is enlarged at *g* at the inner end of the stopper, forming a receptacle in which the head E of the syringe-nozzle fits, such enlargement *g* being considerably larger than the said head so that the sediment in the liquid will collect in said receptacle *g* around the head E when the bottle is inverted, as shown in Fig. 1, instead of being drawn into the nozzle. The outer end of the stopper is provided surrounding the opening G with a rib or bead H, which operates as a packing to prevent leakage, as the plate D may be pressed firmly against the said rib or bead, as shown in Fig. 1.

The operation is quite simple and will be readily understood from the drawings. To fill the syringe, its nozzle should be inserted in the opening in the cork, as shown in Fig. 1, when by compressing the ball and permitting it to again expand it will fill, the pressure of the plate against the bead H preventing leakage. It will be understood that when not in use the stopper F may be removed from the bottle and an ordinary imperforate cork be inserted in its place.

Having thus described my invention, what I claim as new is—

1. An improved apparatus, substantially as described, comprising the cork having a longitudinal opening and provided at its outer end surrounding such opening with an annular bead and the syringe having its nozzle formed to fit in the said opening in the cork and provided at the base of such nozzle with a bearing arranged to bear against the annular bead on the outer end of the cork, all substantially as and for the purposes set forth.

2. In an apparatus, substantially as described, the improved cork provided with a longitudinal opening, having such opening enlarged at its inner end and provided on the outer end of the cork with a rib or bead surrounding such opening, in combination with the syringe having a bearing arranged to form in connection with the bead a tight joint, all substantially as and for the purposes set forth.

LEWIS S. RIGGS.

Witnesses:

P. B. TURPIN,
JOHN G. MURRAY.