

W. P. CHRISTOPHER & C. DE LUKACSEVICS.

SIPHON.

APPLICATION FILED MAY 2, 1908.

Patented Jan. 18, 1910.

946,533.

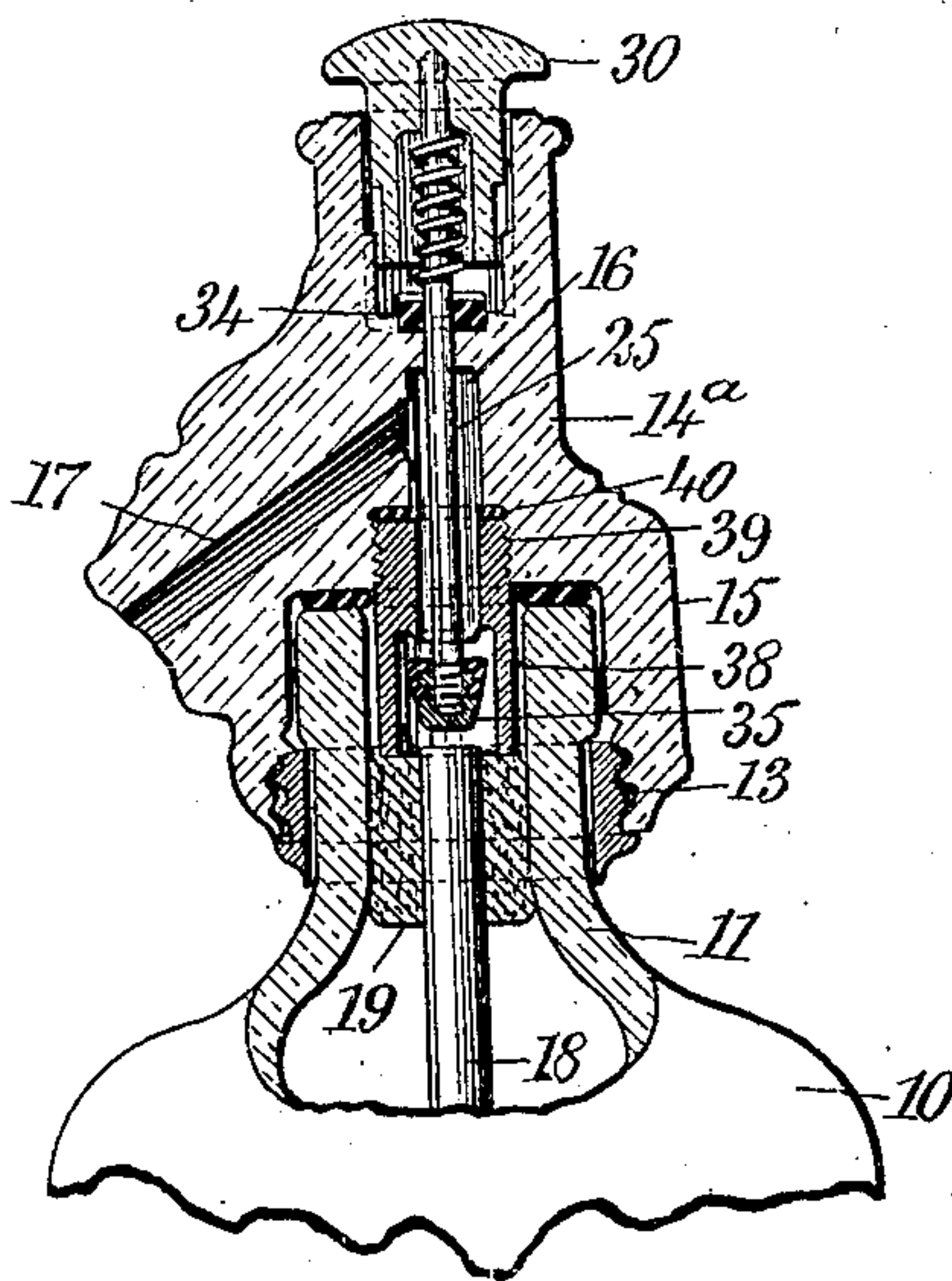


FIG. 1

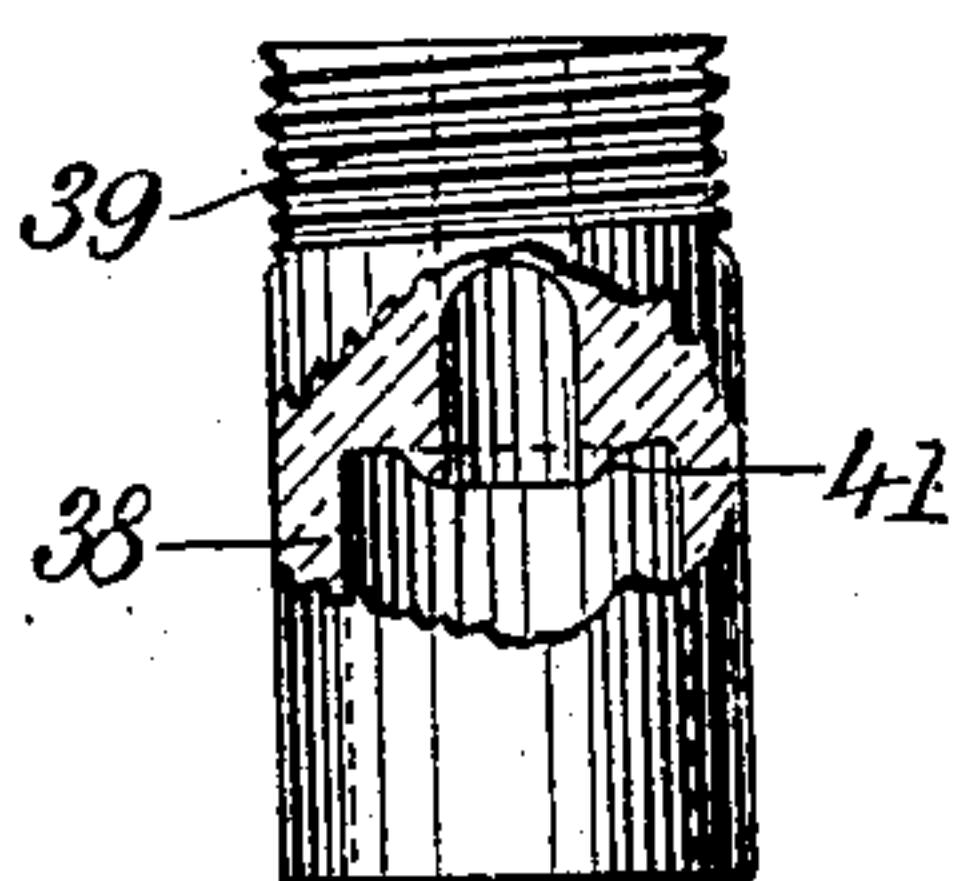


FIG. 2

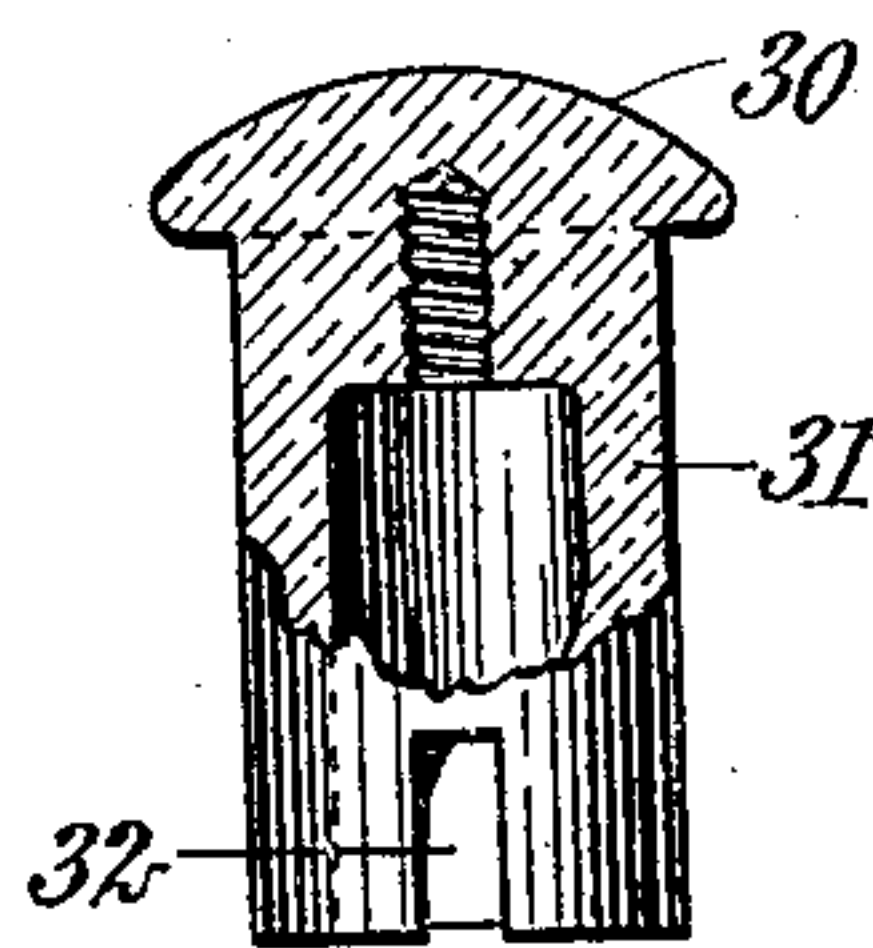


FIG. 3

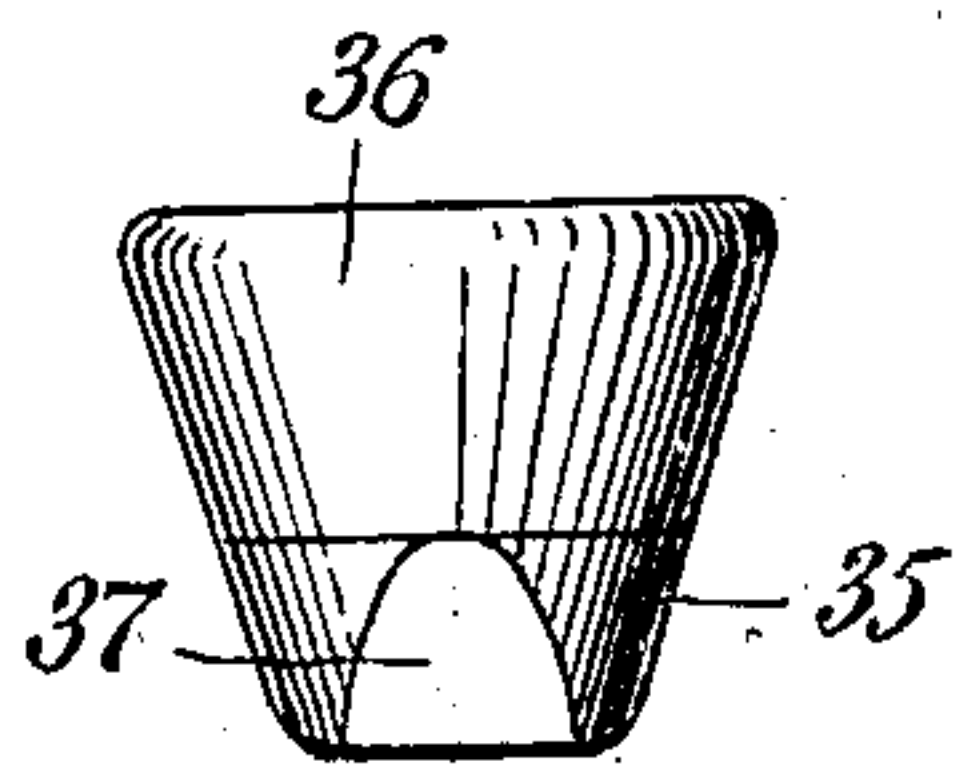


FIG. 4

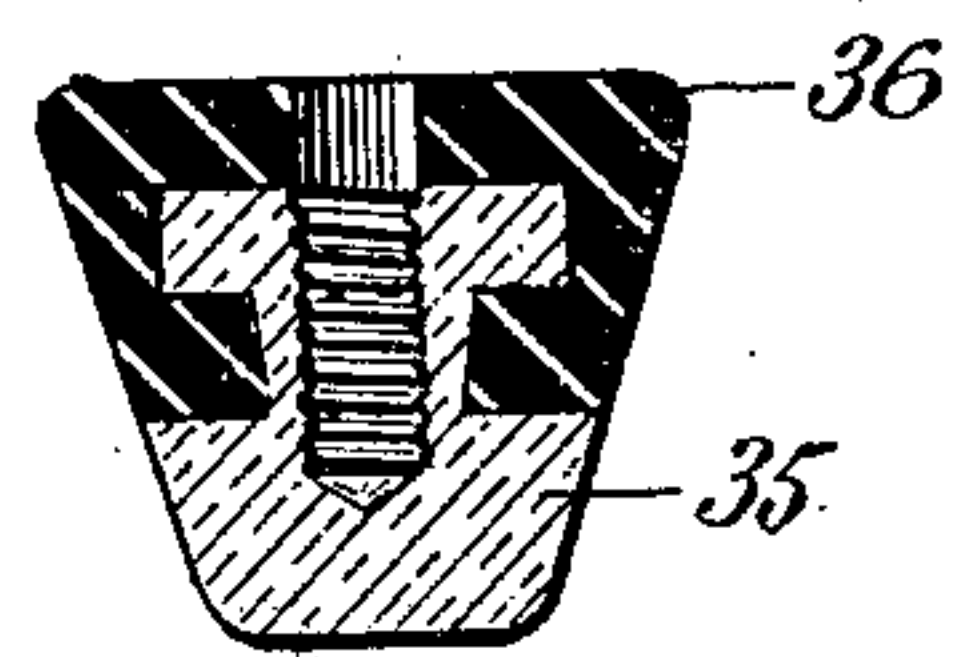


FIG. 5

WITNESSES

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# UNITED STATES PATENT OFFICE.

WILLIAM P. CHRISTOPHER AND CHARLES DE LUKACSEVICS, OF NEW YORK, N. Y.

SIPHON.

946,533.

Specification of Letters Patent.

Patented Jan. 18, 1910.

Application filed May 2, 1908. Serial No. 430,442.

*To all whom it may concern:*

Be it known that I, WILLIAM P. CHRISTOPHER, a citizen of the United States, and CHARLES DE LUKACSEVICS, a subject of the Emperor of Austria, and both residents of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Siphon, of which the following is a full, clear, and exact description.

Our invention relates to siphons of the kind used for dispensing beverages and some medicines, our more particular purpose being to improve the general construction of the siphons for the purpose of increasing their efficiency.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a view partly in section and partly in elevation, showing the siphon head mounted upon a bottle neck and provided with our improved valve mechanism; Fig. 2 is a detail view, showing partly in elevation and partly in section the sleeve appearing centrally in Fig. 1 and provided with a valve seat; Fig. 3 is a detail view showing partly in section and partly in elevation the depressible cylindrical knob used for operating the valve relatively to its seat; Fig. 4 is a detail view showing in elevation the valve; and Fig. 5 is a vertical section through the valve.

The bottle 10 is provided with a central tube 18 and encircling the same and fitting tightly inside the bottle neck is an annular cork 19. As the gas pressure within the bottle 10 is usually higher than the atmospheric pressure outside, the normal tendency is for the annular cork 19 to be forced upward, whenever the siphon is partially opened. A valve stem 25 is slidably mounted within the siphon head 14<sup>a</sup>. The stem 25 is fitted at its lower end with a valve 35, this valve being provided with a rubber capping 36 which encircles the valve 35. The valve 35 is provided with facets 37 to prevent the

obstruction of the tube 18 when the valve is pressed downward. A sleeve 38 is provided with a threaded portion 39 which is fitted into a mating threaded portion of the siphon head 14<sup>a</sup>. A gasket 40 engages the top of the sleeve 38 and is pressed against the siphon head. The sleeve 38 is provided with a valve seat 41. The valve 35 is moved away from the valve seat 41 by pressure upon the knob 30 and when this pressure is relaxed, the upward travel of the valve 35 lodges the gasket 36 against the valve seat 41.

It will be noted that the valve is easily rendered fluid-tight because of the resiliency of the valve relatively to its seat.

The operation of our device is as follows: The bottle being filled with a liquid, for instance carbonated water, the operator may discharge the contents of the bottle by merely pressing upon the knob 30. When the pressure is relaxed, the bottle is closed automatically.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

The combination of a bottle provided with a neck, a siphon head mounted upon said neck and provided with an opening, a sleeve extending into said opening and provided with a cylindrical portion extending into said neck, said sleeve being fashioned inwardly to form a valve seat, a valve mounted within said cylindrical portion and movable relatively to said valve seat, a tube disposed within said bottle and extending into said neck toward said siphon head, and an annular cork member encircling said tube and engaging said bottle neck, said cork member also engaging said cylindrical portion of said sleeve.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

WILLIAM P. CHRISTOPHER.  
CHARLES DE LUKACSEVICS.

Witnesses:

WALTON HARRISON,  
JOHN P. DAVIS.