

W. KLOENNE.
BOTTLE STOPPER.

No. 48,341.

Patented June 20, 1865.

Fig. 1.

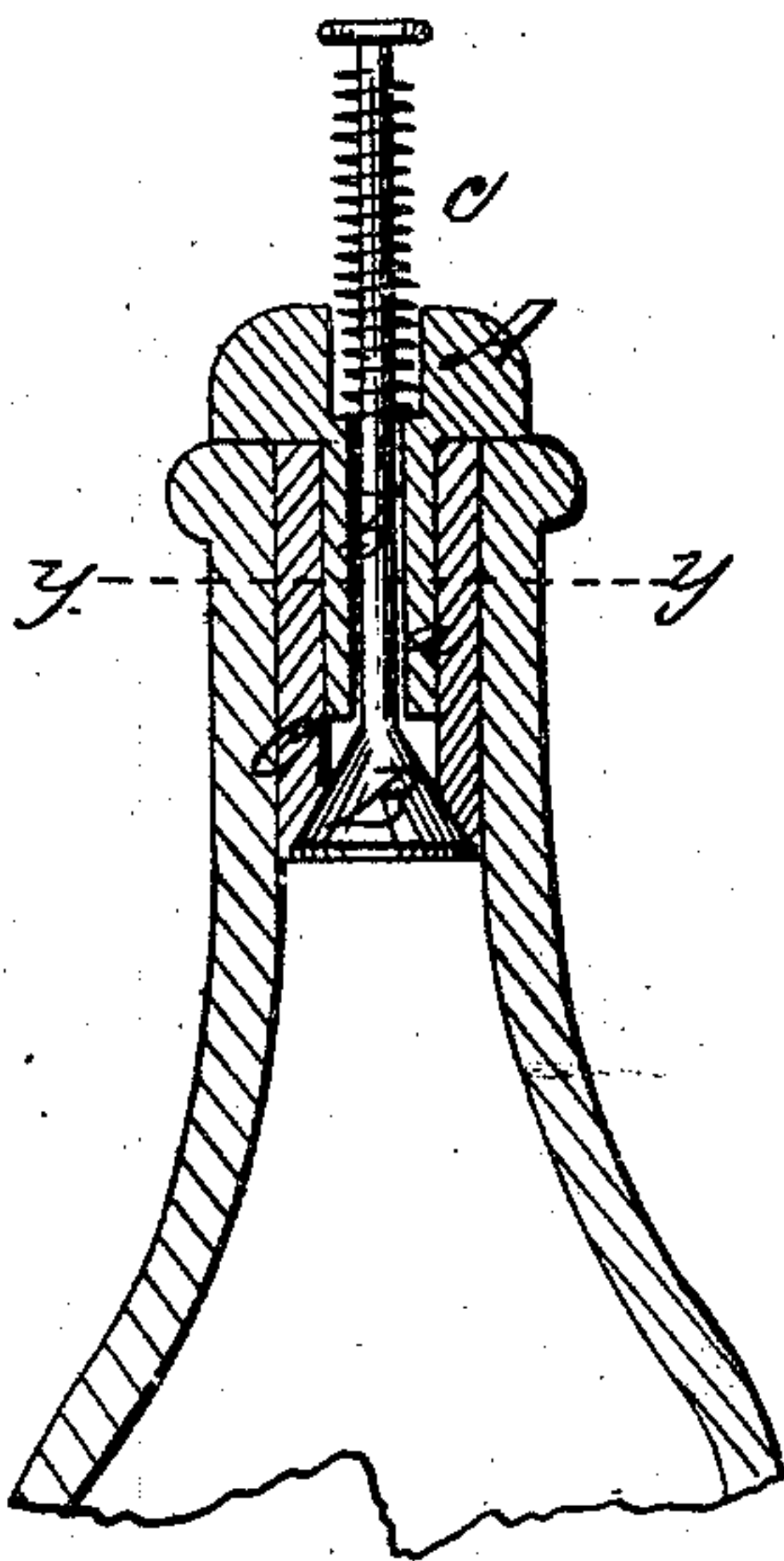


Fig. 2.



Witnesses.
Chas. Tusch
J. M. Drington

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UNITED STATES PATENT OFFICE.

WILHELM KLOENNE, OF NEW YORK, N. Y., ASSIGNOR TO HIMSELF AND G. HUBNER, OF SAME PLACE.

IMPROVED BOTTLE-STOPPER.

Specification forming part of Letters Patent No. 48,341, dated June 20, 1865.

To all whom it may concern:

Be it known that I, WILH. KLOENNE, of No. 27 Bowery, in the city, county, and State of New York, have invented a new and Improved Bottle-Stopper; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical central section of this invention, the line *x x*, Fig. 2, indicating the plane of section. Fig. 2 is a horizontal section of the same, the line *y y*, Fig. 1, indicating the plane of section.

Similar letters of reference indicate like parts.

This invention relates to a bottle-stopper composed of a plug of wood or other suitable material perforated through its longitudinal center, in combination with a cone-valve secured to a stem which passes through the hole in the plug, and with an elastic tube applied to the outside of said plug in such a manner that when the plug, with the elastic tube, is inserted in the neck of a bottle containing liquid under pressure the pressure of the gases in the liquid forces the cone-valve up into the elastic tube and expands the same, causing it to close tight against the inner surface of the neck.

A represents a plug, of wood or any other suitable material, which is perforated through its longitudinal center with a hole, *a*. Through

this hole passes the stem *b* of a cone-valve, B, and a weak spring, *c*, has a tendency to raise this cone-valve up, or to sustain it in the position shown in Fig. 1 of the drawings.

Secured to the outside of the plug A is a tube, C, of india-rubber or other suitable elastic material, just thick enough to pass freely into the neck of a bottle. If the stopper is introduced into the neck of a bottle filled with gaseous liquids the pressure of the gases forces the cone-valve up into the tube, causing the same to expand and to form a tight joint against the inner surface of the neck. A slight pressure on the top of the stem *b* forces the cone-valve out of the elastic tube, and allows of withdrawing the stopper from the bottle without difficulty.

If desired, the plug A and tube C can be made solid out of india-rubber, although I use, by preference, a wooden plug and an india-rubber tube. The valve is best made of tin or other material which is not injured or touched by the liquid or gases with which it may come in contact.

I claim as new and desire to secure by Letters Patent—

A bottle-stopper composed of a plug, A, spring-valve B, and elastic tube C, substantially as herein set forth.

W. KLOENNE.

Witnesses:

M. M. LIVINGSTON,
C. L. TOPLIFF.