

J. B. TRIMBLE.
Bottle-Stoppers.

No. 157,431.

Patented Dec. 1, 1874.

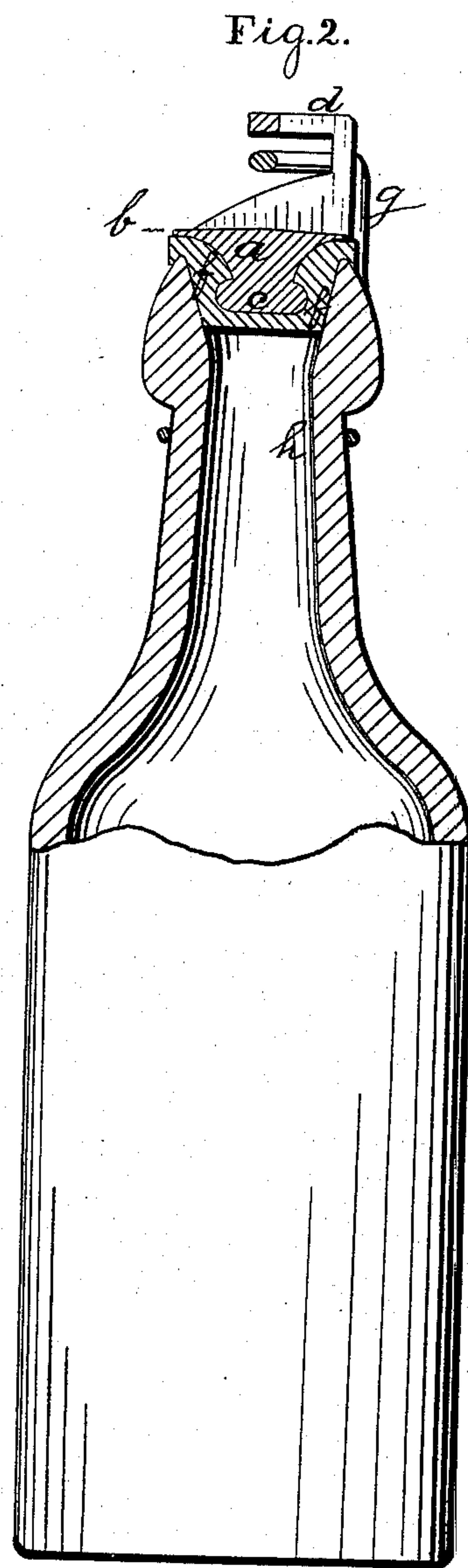
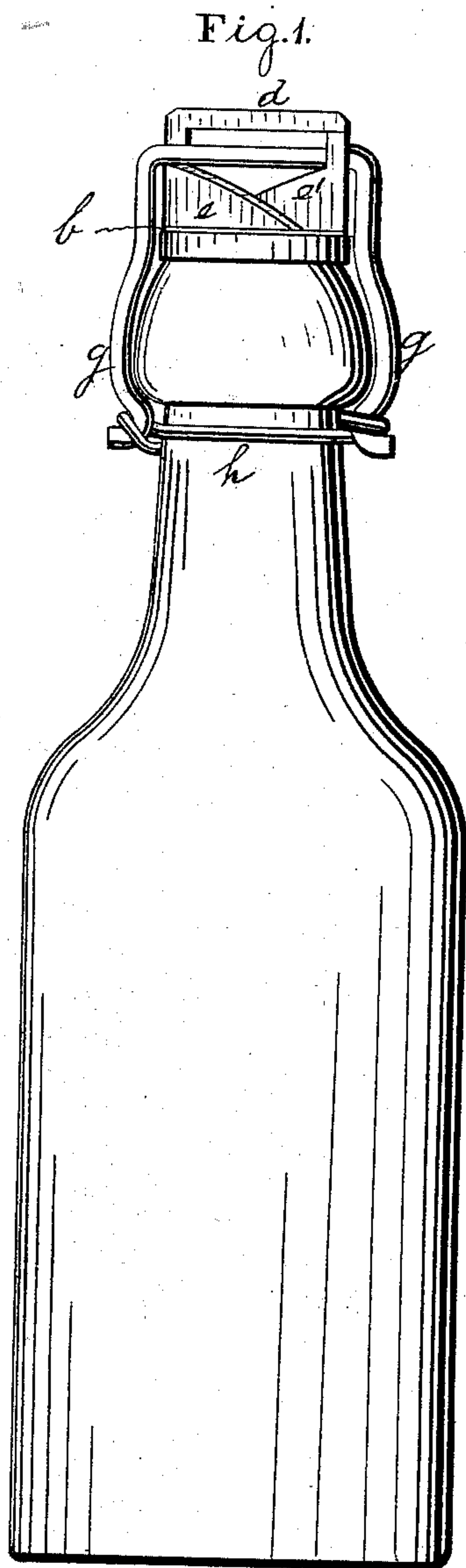
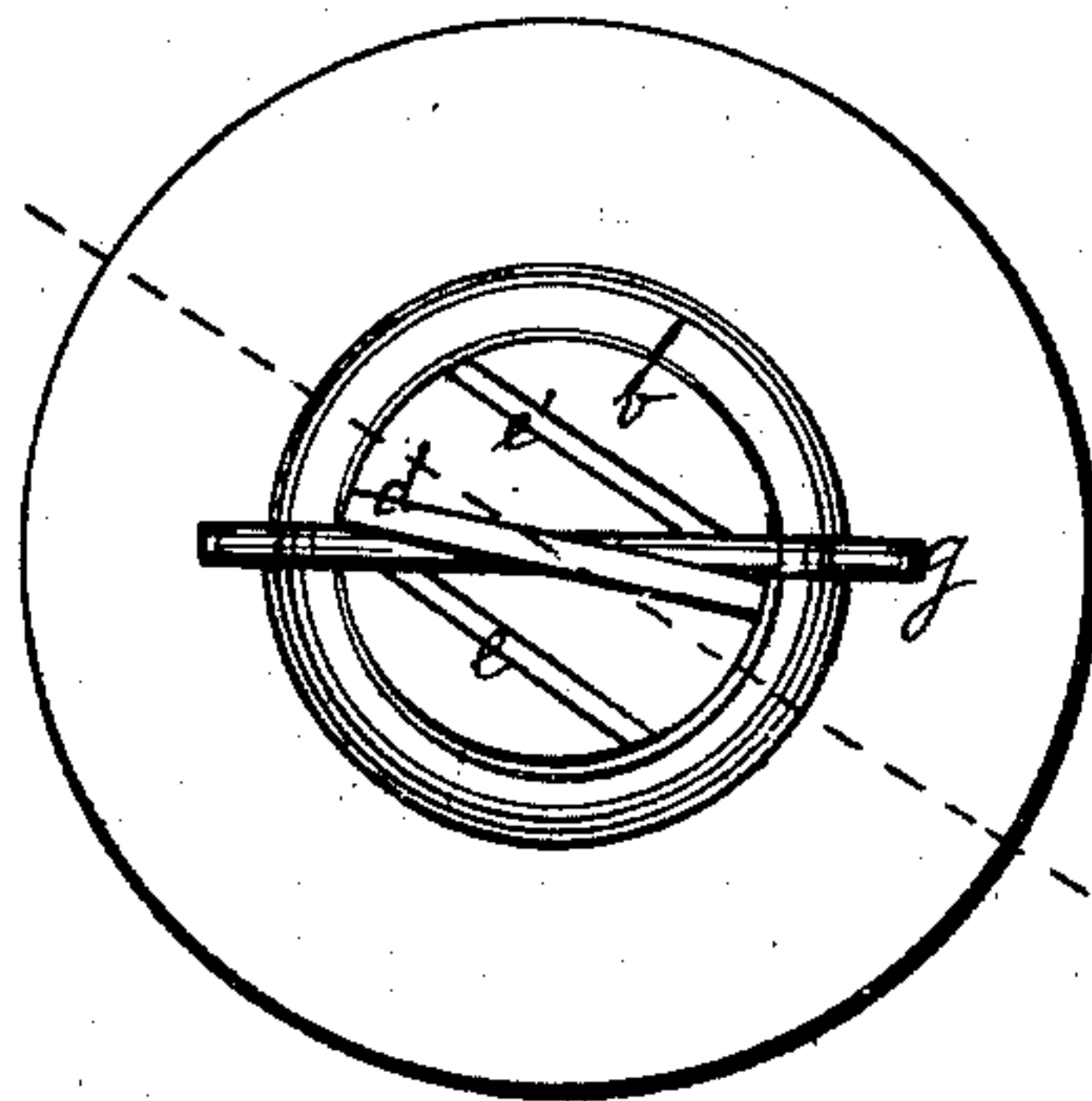


Fig. 3.



Witnesses
James C. Eden
Thomas A. Purtt

Inventor
John B. Trimble
by his Atty.
J. E. Shaw

UNITED STATES PATENT OFFICE.

JOHN B. TRIMBLE, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN BOTTLE-STOPPERS.

Specification forming part of Letters Patent No. **157,431**, dated December 1, 1874; application filed November 6, 1874.

To all whom it may concern:

Be it known that I, JOHN B. TRIMBLE, of Philadelphia, Pennsylvania, have invented an Improvement in Bottle-Stoppers, of which the following is a specification:

This stopper is designed principally for use in connection with bottles for ale, lager-beer, and other like liquors.

In the drawings, Figure 1 is a side elevation of the stopper applied to a bottle; Fig. 2, a vertical section of the stopper and the upper portion of the bottle. Fig. 3 is a plan of the stopper and bottle.

a is the metallic base of the stopper. The said base is a casting comprising a solid rim, *b*, a knob, *c*, which projects downwardly, and a guard, *d*, which is connected with two inclined opposite ridges, *e* and *e'*, similar in form. *f* is a gum-elastic cover, attached to the base *a* by the knob *c*, Fig. 2, which enters tightly a cavity in the cover, as shown. *g* is a bail, flexibly attached by a wire to the neck of the bottle *h*, as shown.

When the stopper is inserted in the neck of the bottle, the bail is brought vertically over

the stopper, and then turned until its overhanging part comes in contact with the two opposite sides of the guard *d*, resting on the inclined ridges *e* and *e'*, as shown in Fig. 1, thus firmly securing the stopper in its place.

To remove the stopper from the neck of the bottle, the last-described actions are reversed.

The horizontal bar, connecting the upright sides of the guard *d*, is not necessary to the operation of the stopper, further than that it prevents the loss of the stopper when removed from the neck of the bottle.

I claim—

The bottle-stopper constructed with the two inclined ridges or projections *e* and *e'*, upon the highest portions of which the bail *g* rests when the bottle is closed, the said projections forming inclined planes which incline from opposite directions, in the manner and for the purpose substantially as set forth.

Philadelphia, October 31, 1874.

JNO. B. TRIMBLE.

Witnesses:

ALBERT H. HOECKLEY,
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