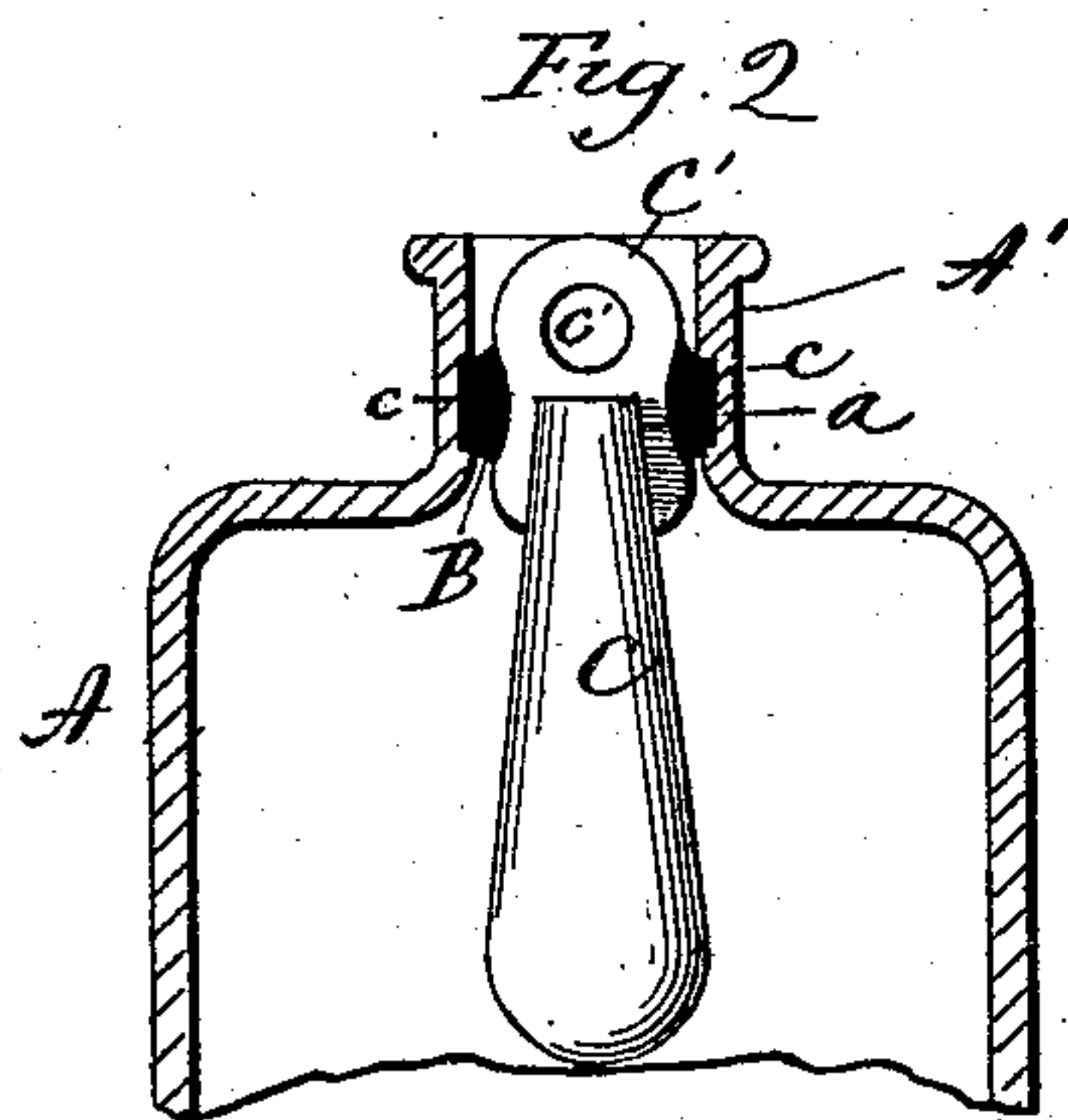
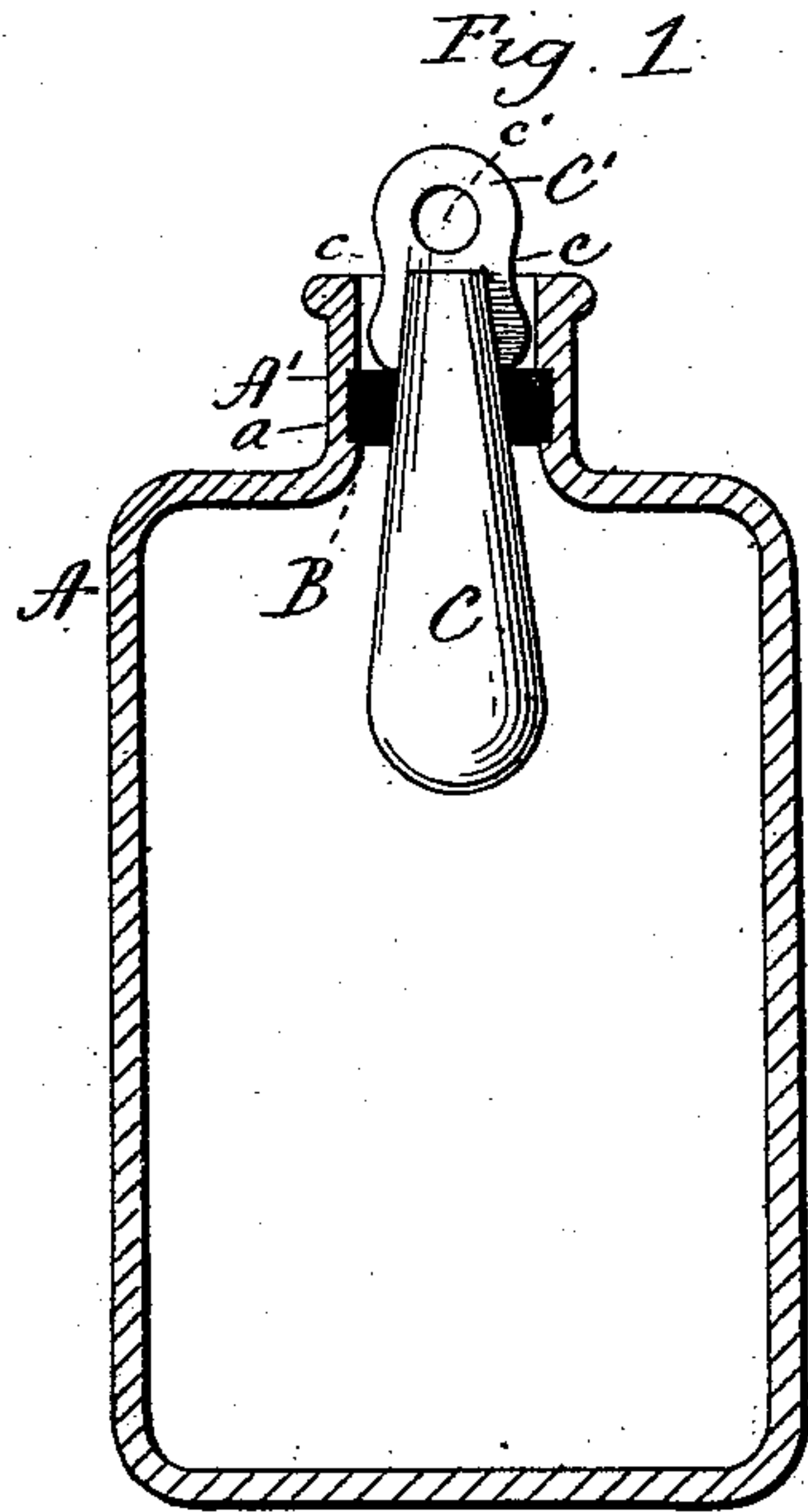


(No Model.)

W. J. KOLTS.
BOTTLE STOPPER.

No. 472,761.

Patented Apr. 12, 1892.



Witnesses.

John H. Shumway
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UNITED STATES PATENT OFFICE.

WILLIAM J. KOLTS, OF RONDOUT, NEW YORK.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 472,761, dated April 12, 1892.

Application filed January 27, 1892. Serial No. 419,432. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. KOLTS, of Rondout, in the county of Ulster and State of New York, have invented a new Improvement in Bottle-Stoppers; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a view in vertical section of a bottle provided with a stopper constructed in accordance with my invention and shown in its closed position; Fig. 2, a similar view showing the stopper adjusted for a partial flow from the bottle.

My invention relates to an improvement in inside buoyant bottle-stoppers, the object being to provide a simple, cheap, effective, and easily-operated article adapted to be adjusted to permit a limited flow from the bottle to which it is applied.

With these ends in view my invention consists in the combination, with a packing-ring adapted to be permanently located within the neck of a bottle, of a buoyant pear-shaped inside stopper having its smaller end constructed with an oppositely notched and perforated flange, which in the operative adjustment of the stopper projects outward through the said ring. As herein shown, the bottle A, which may be of any approved form and construction, has its neck A' formed with an internal annular recess *a*, which permanently receives a packing-ring B of any suitable material. The pear-shaped stopper proper C is made of some material sufficiently buoyant to float upon the liquid to be placed in the bottle and is constructed at its smaller end with a flange C', having notches *c c* formed opposite each other in its sides, and its end furnished with a transverse perforation *c'*, the said flanged end of the stopper being projected outward through the packing-ring, while its larger rounded end extends inward into the bottle.

As shown in Fig. 1 of the drawings, the stopper is adjusted for sealing the bottle, being prevented from movement outward by its bulbous inner end and from accidental movement inward by the engagement of the inner edges of its flange with the outer face of the ring.

As shown in Fig. 2 of the drawings, the stopper is pressed inward for the engagement of the ring with the opposite notches *c c* of its flange, whereby it is held in place with an open space around its smaller outer end and the said ring, whereby a partial outward flow of the contents of the bottle is permitted. When it is desired to pour the contents of the bottle out freely, the stopper is by a blow projected entirely through the ring and floats within the bottle. Then when the bottle is refilled the stopper will float upward again and is caught through the perforation *c'* of its flange C' by a suitable hook and drawn out through the packing-ring until it is restored to its sealing position, as shown by Fig. 1.

I am aware that a buoyant inside pear-shaped bottle-stopper having a perforation at one end for seizing it by means of a hook is old, and I do not claim such a construction, broadly, but only the particular construction shown and described.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with a packing-ring adapted to be permanently located within the neck of a bottle, of a buoyant pear-shaped inside stopper having its smaller end constructed with a flange oppositely notched and perforated, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM J. KOLTS.

Witnesses:

SEYMOUR TUBBY,
FREDERICK STEPHAN, Jr.