

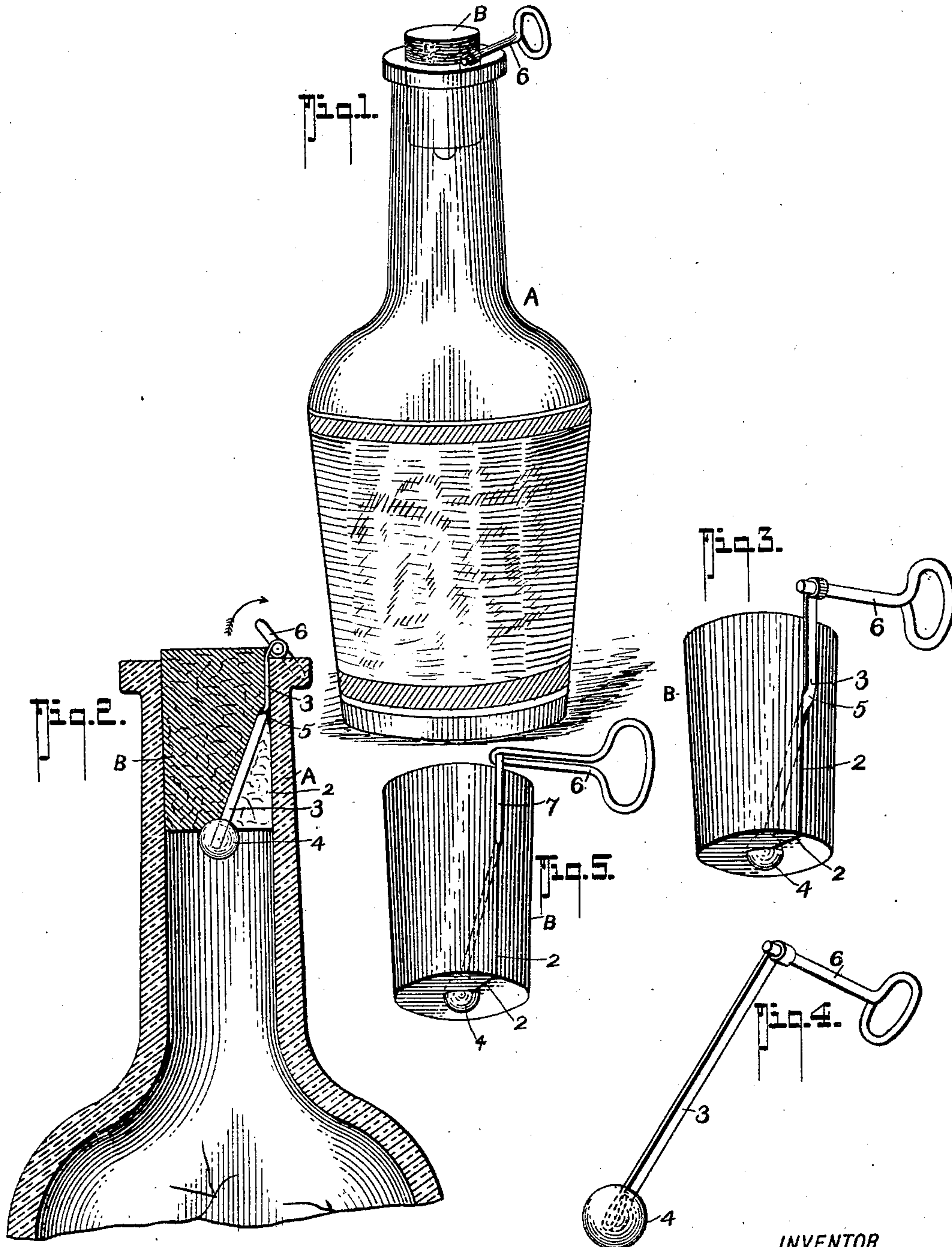
No. 680,469.

Patented Aug. 13, 1901.

G. A. SMITH.
CORK EXTRACTOR.

(Application filed Dec. 8, 1900.)

(No Model.)



WITNESSES:
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GEORGE ARBUTHNOTT SMITH, OF ALBERNI, CANADA.

CORK-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 680,469, dated August 13, 1901.

Application filed December 3, 1900. Serial No. 38,551. (No model.)

To all whom it may concern:

Be it known that I, GEORGE ARBUTHNOTT SMITH, a citizen of Canada, residing at Alberni, in the Province of British Columbia, Canada, have invented a new and useful Cork-Extractor, of which the following is a specification.

My invention relates to an improved method of extracting corks from bottles, and is of that class in which the extractor is an attachment to the cork itself.

My device is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a bottle with my improvement applied. Fig. 2 is a section through the neck of the bottle, showing my cork-extractor as in use. Fig. 3 is a detail view of the cork and the extractor detached from the bottle. Fig. 4 is a detail view of the extracting device, and Fig. 5 is a view of a modified form of my invention.

In Fig. 2 a slit 2 is made in the cork B from the center of the under side to about two-thirds up one side, and in this slit is a narrow strip 3 of thin flat flexible wire, having at the under side of the cork a small button or bead 4, of glass or other suitable material. The strip 3 passes up through the slit in the cork and has a quarter-twist 5 imparted to it where it comes through the side, so as to bring the flat wire to the approximate plane of the outside of the cork. The strip then passes upward and is attached at the mouth of the bottle A to a wire key 6, such as can be turned with finger and thumb. The wire may be of an alloy not readily corroded by the action of the contents of the bottle; but preferably, as being cheaper, the end of the wire below the cork is bent in a hook or loop, and being dipped into melted vitreous matter a sufficient amount is taken up in the form of a drop or bead, while the adjacent wire is protected from corrosion by a coating of the same.

In the operation of my extractor the key is turned in the direction of the arrow, when the strip, being wound on the stem of the key and on itself, bearing against the mouth of the bottle, draws the cork up and out.

In Fig. 5 I have illustrated a slightly-modi-

fied form of my invention. In this form instead of using a flat flexible strip, as shown in Fig. 3, I may use a round wire, (indicated by 7,) which can be readily squeezed in the slit in the cork and which is also provided at the lower end with a detent or button 4, and instead of using the form of key as shown in Fig. 3 I may connect the said rod to the key having a shape shown in the said Fig. 5.

Other slight changes in the form of my extractor might be made without departing from the appended claims.

Having now particularly described my invention, what I claim as new, and desire to be protected in by Letters Patent of the United States, is—

1. In combination with the neck of an ordinary bottle and its cork; a slit in the cork extending from the center of the under side of the cork to the outside, about two-thirds of the length of the cork up; a flexible strip in such slit secured at the under side of the cork to a piece which will not draw through the slit; a quarter-twist in the strip where it comes out of the side of the cork, which will enable the strip to lie flat between the cork and the inside of the bottle-neck, where it passes upward to the mouth of the bottle; a key attached to the strip at its upper end, adjacent to the mouth of the bottle, adapted to be rotated to wind the strip upon the shank of the key and itself.

2. In combination with the neck of an ordinary bottle and its cork; a slit in the cork extending from the center of the under side of the cork to the outside about two-thirds of the length of the cork up; a wire within such slit secured at the under side to a piece which will not draw through the cork; a key attached to the upper end of the wire adjacent to the mouth of the bottle, adapted to be manually rotated to wind the wire on the shank thereof.

3. The combination with the bottle-neck, and the cork B, said cork having a slit in one side, extended from the bottom, part way its length; of the flexible strip 3, said strip comprising the lower end, bent to slip edgewise into the cork-slit, and having a head or en-

largement 4 at the lower end, the upper end
of the said strip being bent at right angles to
the lower end, and in a plane to lie flatwise
against the outside of the cork, said upper
5 end extending above the cork, and the twist-
ing-key 6, all being arranged substantially as
shown and for the purposes described.

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

GEORGE ARBUTHNOTT SMITH.

Witnesses:

THOS. JACKSON,
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