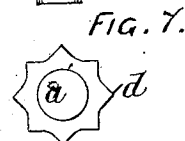
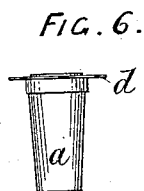
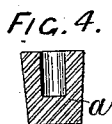
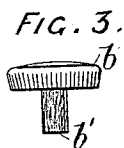
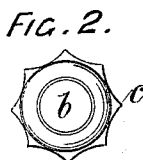
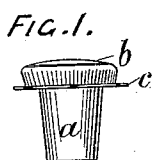


(No Model.)

R. LE N. FOSTER & J. S. CROWLEY.
BOTTLE STOPPER.

No. 472,041.

Patented Apr. 5, 1892.



Witnesses:

E. B. Bolton
M. A. Walsh.

By

Inventors:
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UNITED STATES PATENT OFFICE.

REGINALD LE NEVE FOSTER, OF BRADFORD, NEAR MANCHESTER, AND JOHN
SIDNEY CROWLEY, OF PAIGNTON, ENGLAND.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 472,041, dated April 5, 1892.

Application filed October 1, 1891. Serial No. 407,430. (No model.) Patented in England October 17, 1890, No. 16,513.

To all whom it may concern:

Be it known that we, REGINALD LE NEVE FOSTER, residing at Bradford, near Manchester, in the county of Lancaster, and JOHN SIDNEY CROWLEY, residing at Paignton, in the county of Devon, both in England, and subjects of the Queen of Great Britain, have invented certain new and useful Improvements in Bottle-Stoppers, (for which we have obtained Letters Patent in Great Britain, No. 16,513, and bearing date October 17, 1890,) of which the following is a specification.

Our invention relates to improvements in bottle-stoppers; and its object is to indicate or call attention to the poisonous or dangerous nature of the contents of a bottle whenever any person attempts to take out the cork or stopper. We effect this object by providing the corks or stoppers of such bottles with pointed projections or serrations, which, without being so sharp as to puncture or tear the skin, are yet sufficiently sharp to attract attention and to prevent a poison-bottle being opened heedlessly.

Various modes of furnishing the corks or stoppers with projecting points may be employed according to our invention. For example, a metallic or other ferrule disk ring, cap, or thumb-piece provided with serrations or other sharp projections may be secured to each cork.

We do not desire or intend to confine ourselves to any particular form or shape of cork or stopper.

Figures 1 and 2 are a side view and plan,

respectively, of a safety-cork; and Figs. 3, 4, and 5 are detail views of the parts of the same. Figs. 6 and 7 are slight modifications thereof.

Referring to Figs. 1 to 5, we employ a cork *a*, recessed to receive the shank *b'* of a button *b*, which is preferably formed of wood, covered on the top with metal foil, but which may be of any suitable material. On the shank *b'*, beneath the head of the button, is placed a disk or washer *c*, the periphery of which is provided with sharp projections, as shown best in Figs. 2 and 5. The shank *b'* is then placed in the recess in the cork *a* and the parts glued or otherwise secured together.

In Figs. 6 and 7 the cork *a* has secured thereto a flanged metal ferrule *d* with sharp points or projections.

We claim—

A bottle-stopper consisting of the stopper portion *a*, provided with a recess, a perforated washer placed on said stopper portion and provided with lateral projections, and a button *b*, provided with a shank *b'*, adapted to pass through the washer and secured in the recess, substantially as described.

REGINALD LE NEVE FOSTER.

JOHN SIDNEY CROWLEY.

Witnesses to the signature of Reginald Le Neve Foster:

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THOMAS CHADWICK.

Witnesses to the signature of John Sidney Crowley:

MARY ROBINSON,

MINNIE HIGGS.