

(No Model.)

R. G. HOPKINS.
BOTTLE STOPPER AND INK FILLER.

No. 515,587.

Patented Feb. 27, 1894.

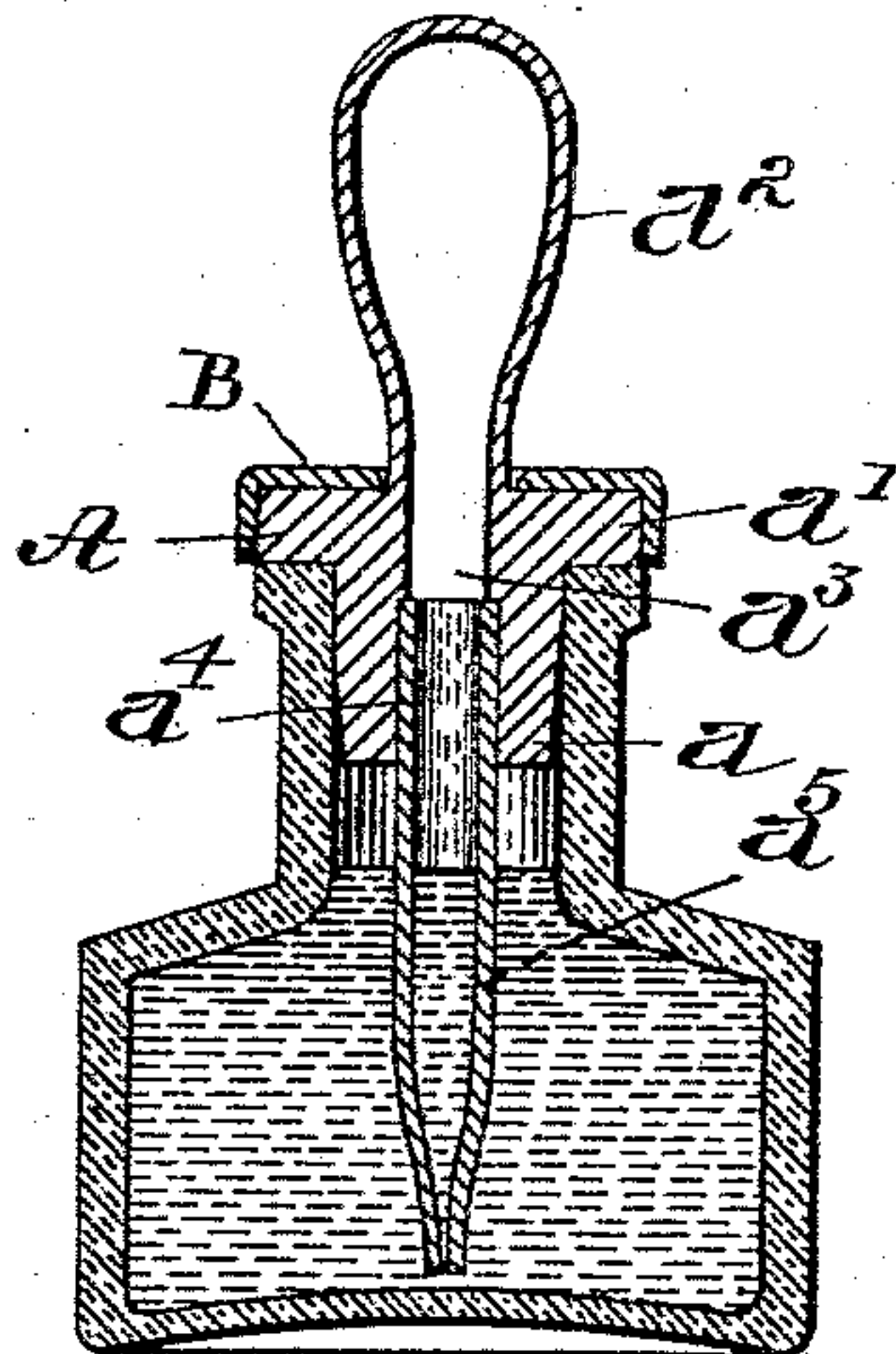


FIG. 1.

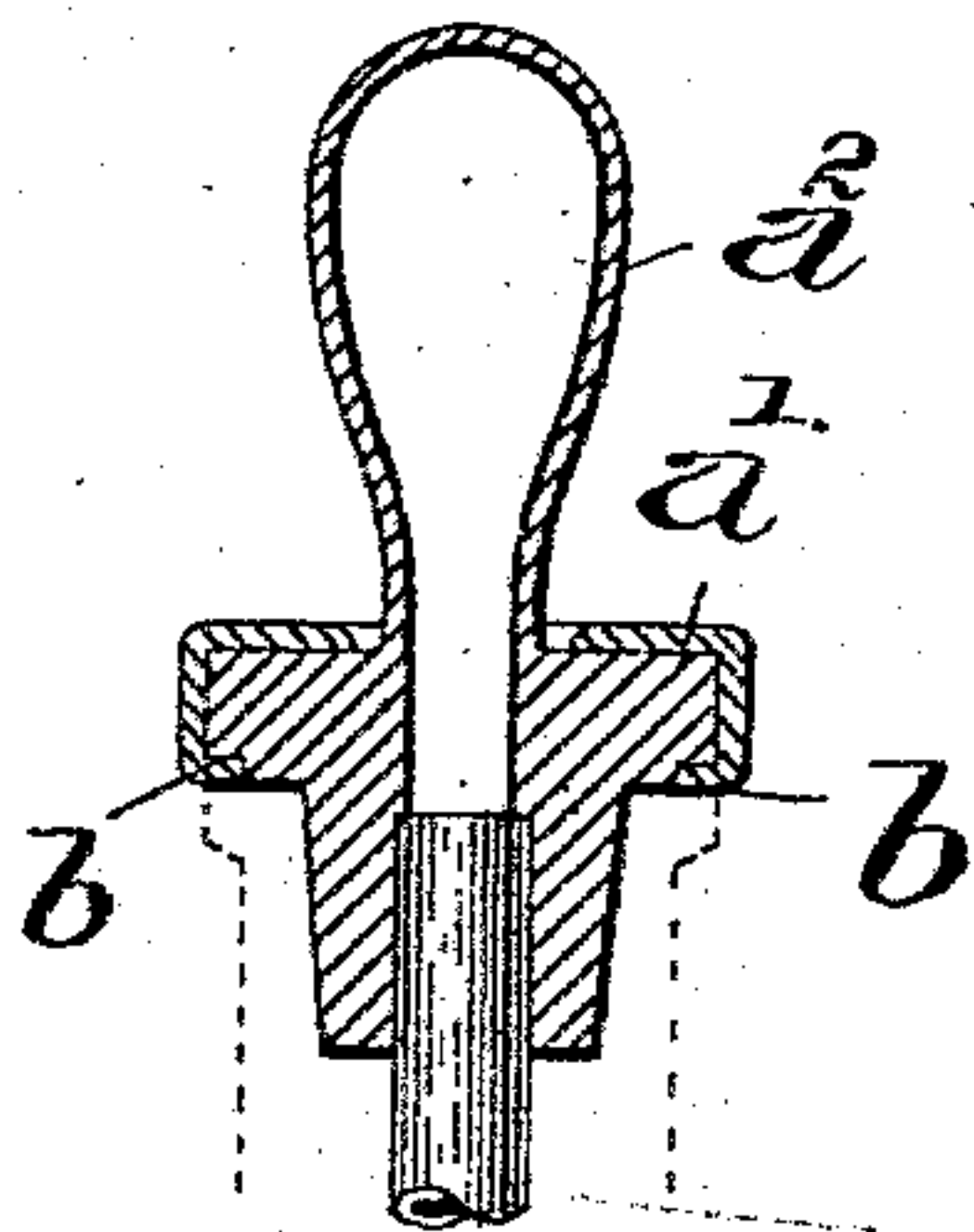


FIG. 2.

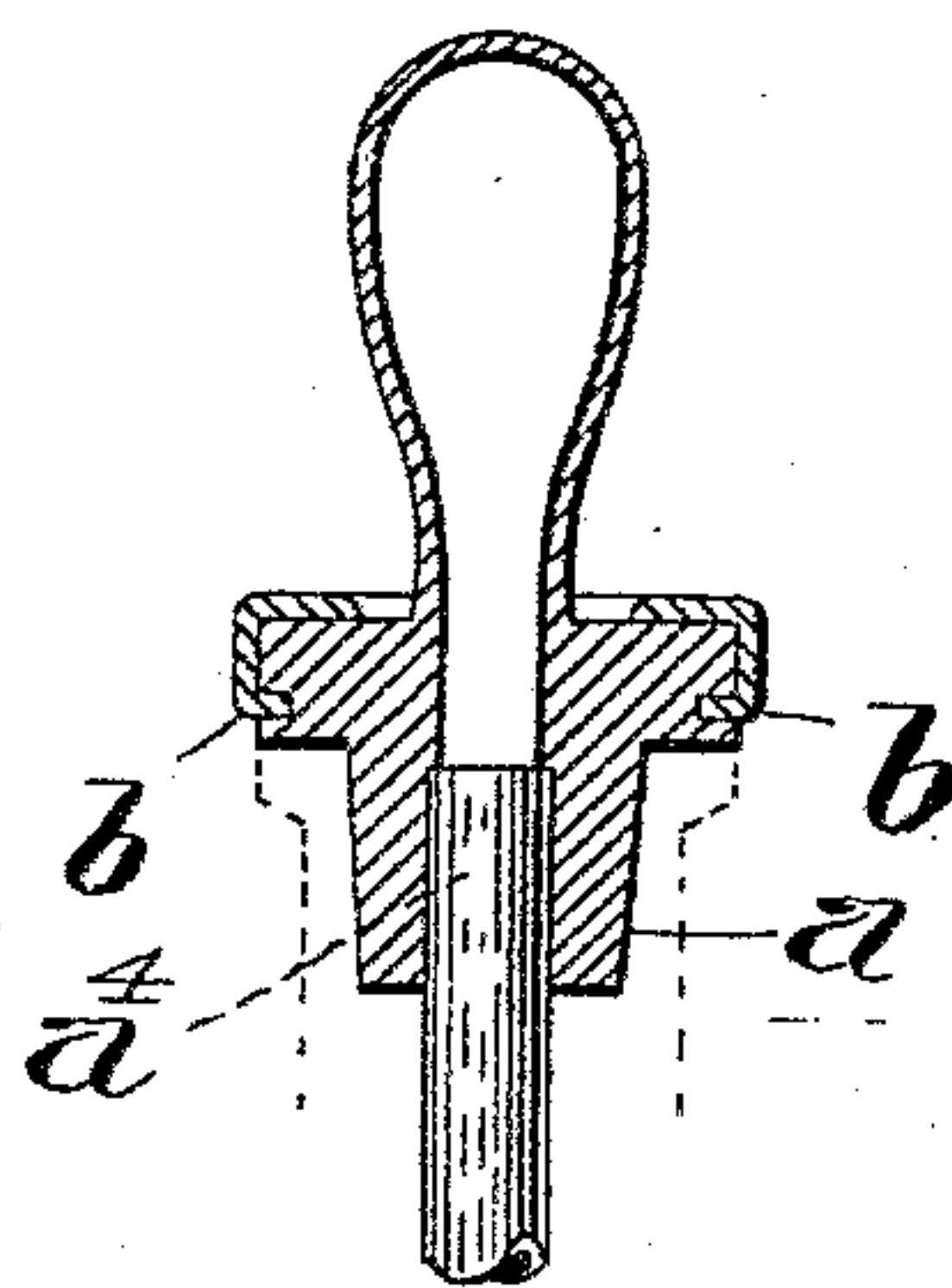


FIG. 3.

WITNESSES.

J. H. Raymond
J. W. Dolan

INVENTOR.

Robert G. Hopkins

UNITED STATES PATENT OFFICE.

ROBERT G. HOPKINS, OF SOMERVILLE, ASSIGNOR TO CARTER, DINSMORE & CO., OF BOSTON, MASSACHUSETTS.

BOTTLE-STOPPER AND INK-FILLER.

SPECIFICATION forming part of Letters Patent No. 515,587, dated February 27, 1894.

Application filed January 26, 1893. Serial No. 459,879. (No model.)

To all whom it may concern:

Be it known that I, ROBERT G. HOPKINS, a citizen of the United States, residing at Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Bottle-Stoppers and Ink-Fillers, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in explaining its nature.

The invention relates to a combined stopper and ink filler and comprises a stopper, preferably of rubber or similar resilient material, a compressible bulb attached to said stopper, a glass or other quill or teat extending from the inner end of said stopper, and a stiff or inflexible cap to which the upper part of the stopper is attached, and which affords means by which the stopper is supported and can be easily detached from and inserted into the mouth of an ink or other bottle.

Referring to the drawings: Figure 1 is a view in vertical section of an ink bottle having my improved stopper. Figs. 2 and 3 are sectional detail views to which reference will hereinafter be made.

A is a stopper. It preferably is made of rubber or of a rubber composition, and it has the section a , which enters the mouth of the bottle, the flange a' which bears on the top of the neck of the bottle, the flexible or compressible bulb a^2 which extends upward from its top, the central cavity a^3 , which is connected with the bulb cavity, and into which

is inserted the upper end a^4 of the filling tube a^5 . The flange a' is enveloped or inclosed on its top and outer edge by a cap B, of wood or metal or other suitable rigid material, and the cap and flange are united together by cement or by suitable fastenings.

In Fig. 2 I have represented the lower edge b of the cap as turned inward into the edge of the flange, or a recess formed in the flange to receive it. In Fig. 3, this turned in edge b is represented as entering a recess in the edge of the flange, a portion of the flange being below the turned in edge. This rigid cap affords means by which the flange of the stopper is supported, maintained in place and held, and by which its entering end is easily removed from and inserted into the mouth of the bottle. The bulb, of course, extends through a hole formed in this rigid cap.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

The improved combined stopper and ink-filler herein described comprising the stopper of flexible or yielding material having the integral flange a' , the integral bulb a^2 , the cavity a^3 , and the filling tube a^5 , the upper end of which is within the body of the stopper, and the rigid cap B inclosing the flange on its top and side edge, as and for the purposes described.

ROBERT G. HOPKINS.

Witnesses:

F. F. RAYMOND, 2d,
J. M. DOLAN.