

(Model.)

J. Q. HOUTS & O. ERICSSON.

BOTTLE STOPPER.

No. 255,627.

Patented Mar. 28, 1882.

Fig. 1.

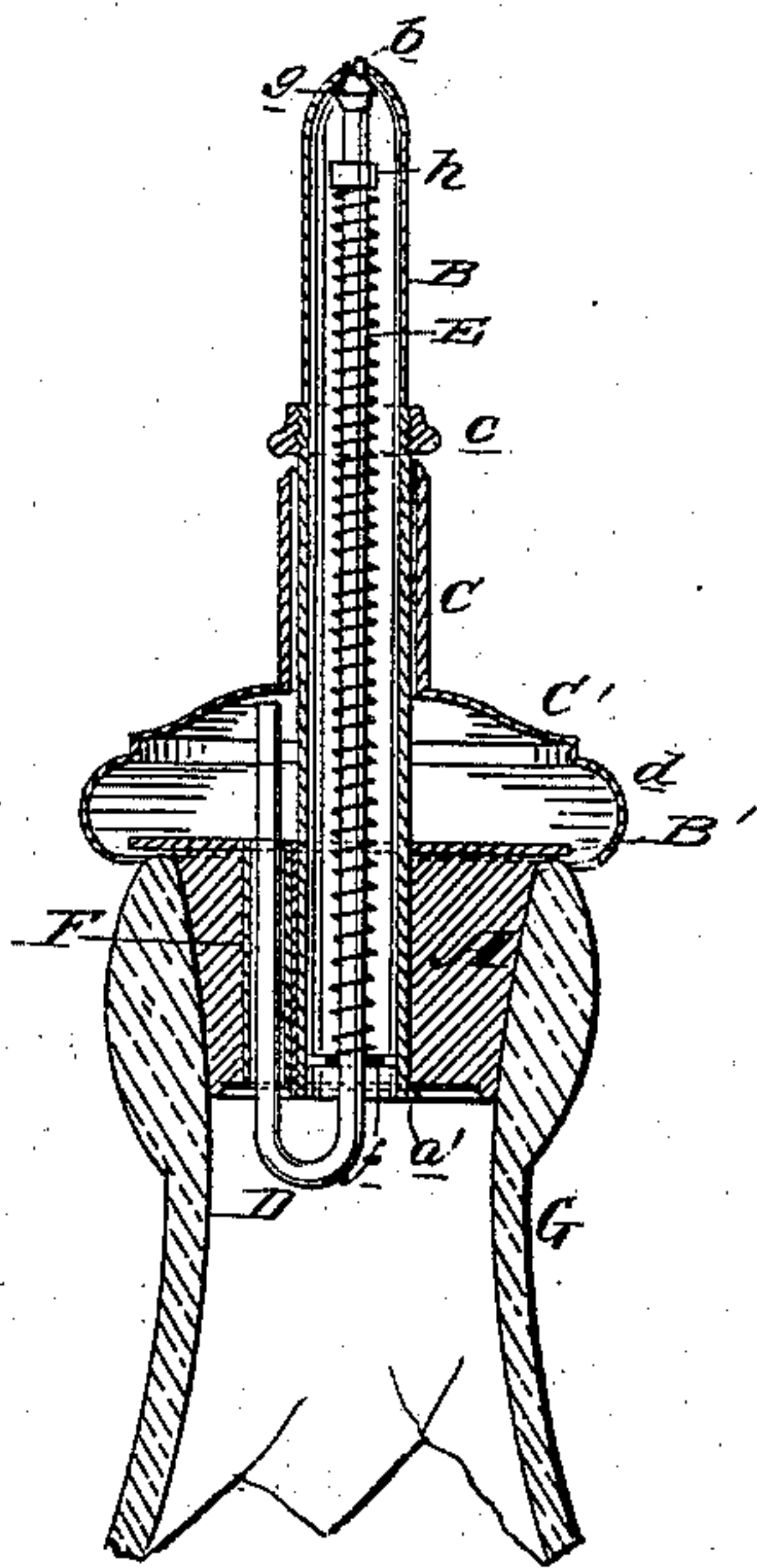
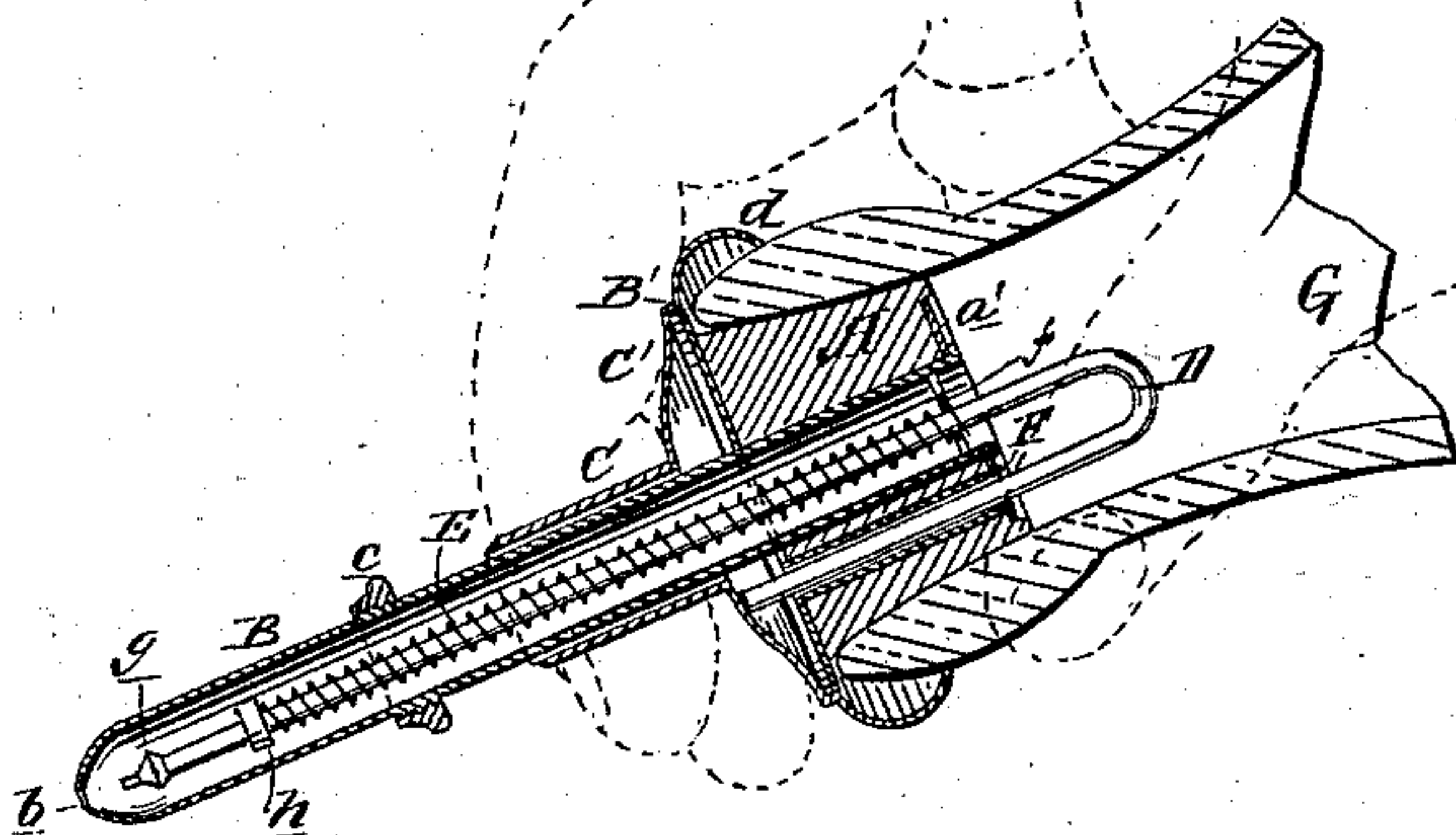


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN Q. HOUTS AND OSCAR ERICSSON, OF SIOUX FALLS, DAKOTA TERRITORY, ASSIGNORS OF TWO-THIRDS TO SAID JOHN Q. HOUTS.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 255,627, dated March 28, 1882.

Application filed August 16, 1881. (Model.)

To all whom it may concern:

Be it known that we, JOHN Q. HOUTS and OSCAR ERICSSON, of Sioux Falls, in the county of Minnehaha, Dakota Territory, have invented a new and Improved Bottle-Stopper, of which the following is a full, clear, and exact specification.

This invention is designed as an improvement on the bottle-stopper for which Letters Patent No. 234,035 were issued to John Q. Houts, November 2, 1880; and it consists of a cork, a central flanged tube provided with a cross-bar, an extension-tube provided with a cap, a valve-rod, and a spiral spring, all of which will be hereinafter described.

In the accompanying drawings, Figure 1 is a vertical sectional elevation, showing the stopper in place in a bottle and closed. Fig. 2 is a sectional view of the stopper in a bottle, illustrating its position when the contents of the bottle are being poured out.

Similar letters of reference indicate corresponding parts.

In the drawings, A represents the cork of the stopper; and B, the tube, that is passed centrally through the cork A, and is held in position by a burr, *a'*, about its bottom, and by its flange B', that rests on the top of the cork A. The upper end of said tube B is contracted to a small orifice, as shown at *b*, and about half-way between its upper end and the flange B' said tube B is provided on its exterior with an annular shoulder or stop, *c*, that is designed to prevent the disengagement of the exterior tube, C. This tube C, which is set over and about the tube B, is provided at its bottom with an annular flange or cap, C', having a rim, *d*, that fits over the flange B' and closes down on it when the stopper is open.

Within the tube B, near its bottom, is fixed a cross-bar, *f*, through which is passed the valve-rod D, having its upper end enlarged to form a valve, *g*, and having a little below said valve *g* a shoulder, *h*, between which and the cross-bar *f* is the spiral spring E, encircling said rod D. The lower end of said rod D projects through the lower end of the tube B, and is then turned upward and passed up through a tube, F, that is inserted in the cork A and through the flange B', so that its extremity shall be in contact with the under face of the cap C'. This tube F is designed to prevent pressure from the cork A, when the latter is inserted in the bottle G, upon the rod D, so that the latter shall always be free to move.

This stopper will prevent the evaporation of the contents of the bottle and the access of dust or insects thereto, while it also admits of the pouring out of the said contents, and it is easily manipulated, as has hereinbefore been described, and is not liable to get out of order.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

An improved bottle-stopper, made substantially as herein shown and described, consisting of cork A, central flanged tube, B, provided with cross-bar *f*, exterior tube, C, provided with cap C', valve-rod D, and spiral spring E, arranged as set forth.

JOHN Q. HOUTS.
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Witnesses:

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