

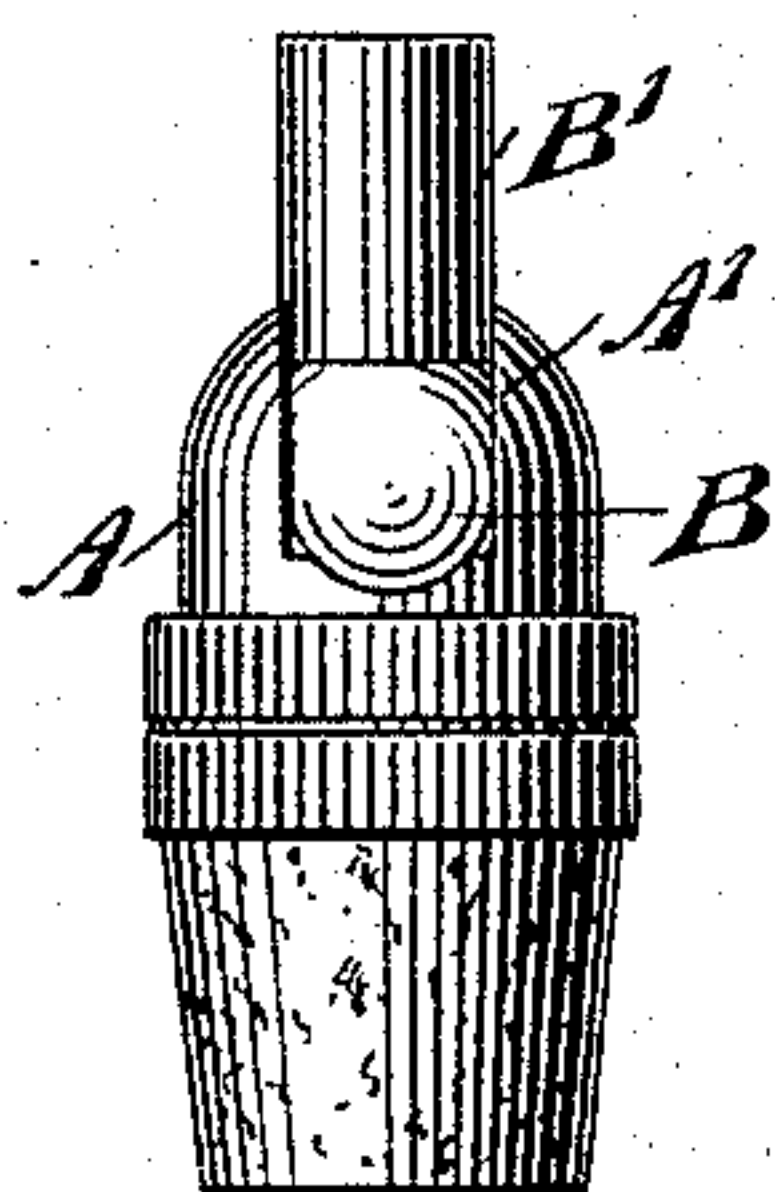
(No Model.)

H. FRIEDMAN & H. M. KOELBEL.  
BOTTLE STOPPER.

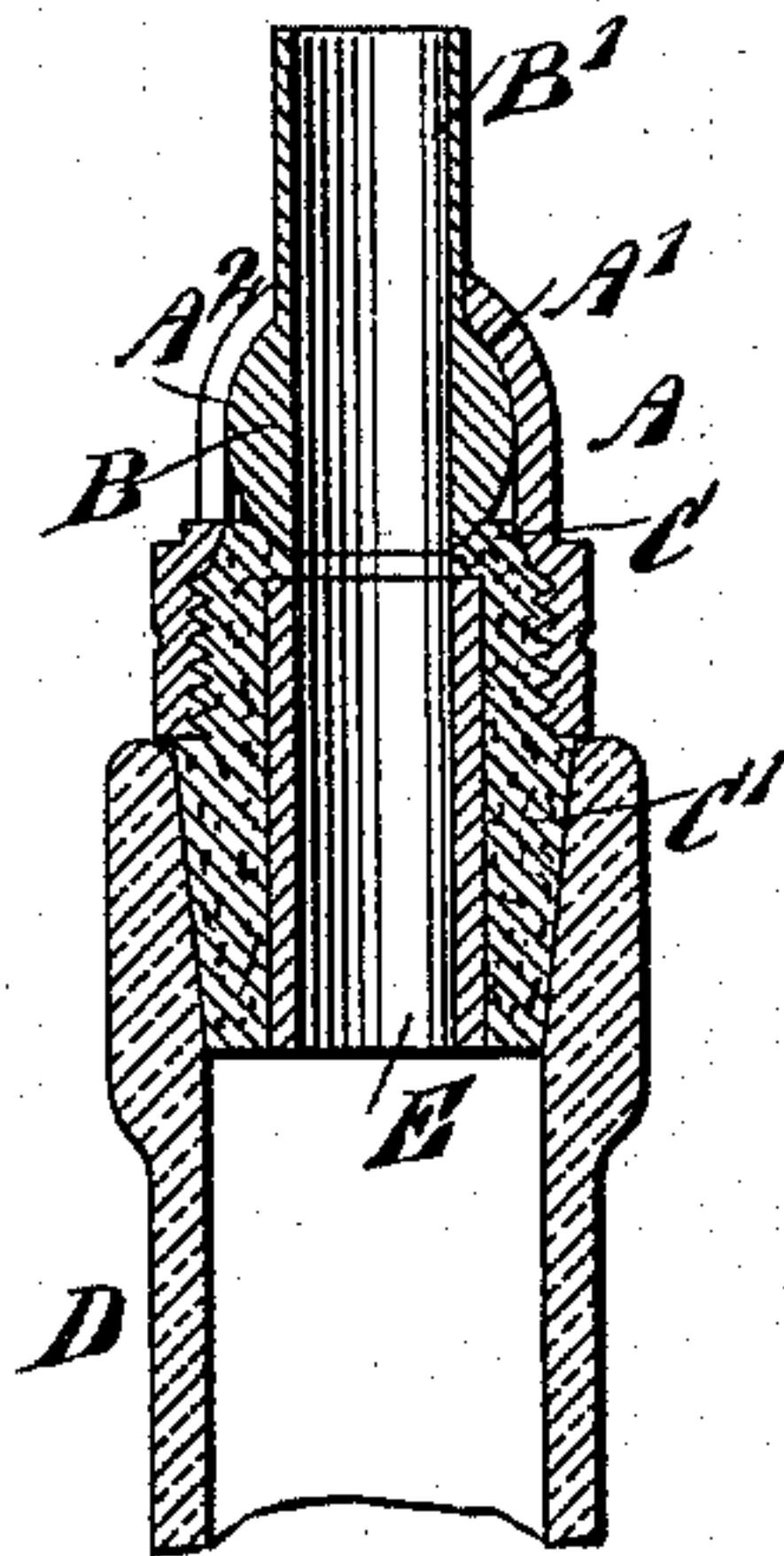
No. 573,212.

Patented Dec. 15, 1896.

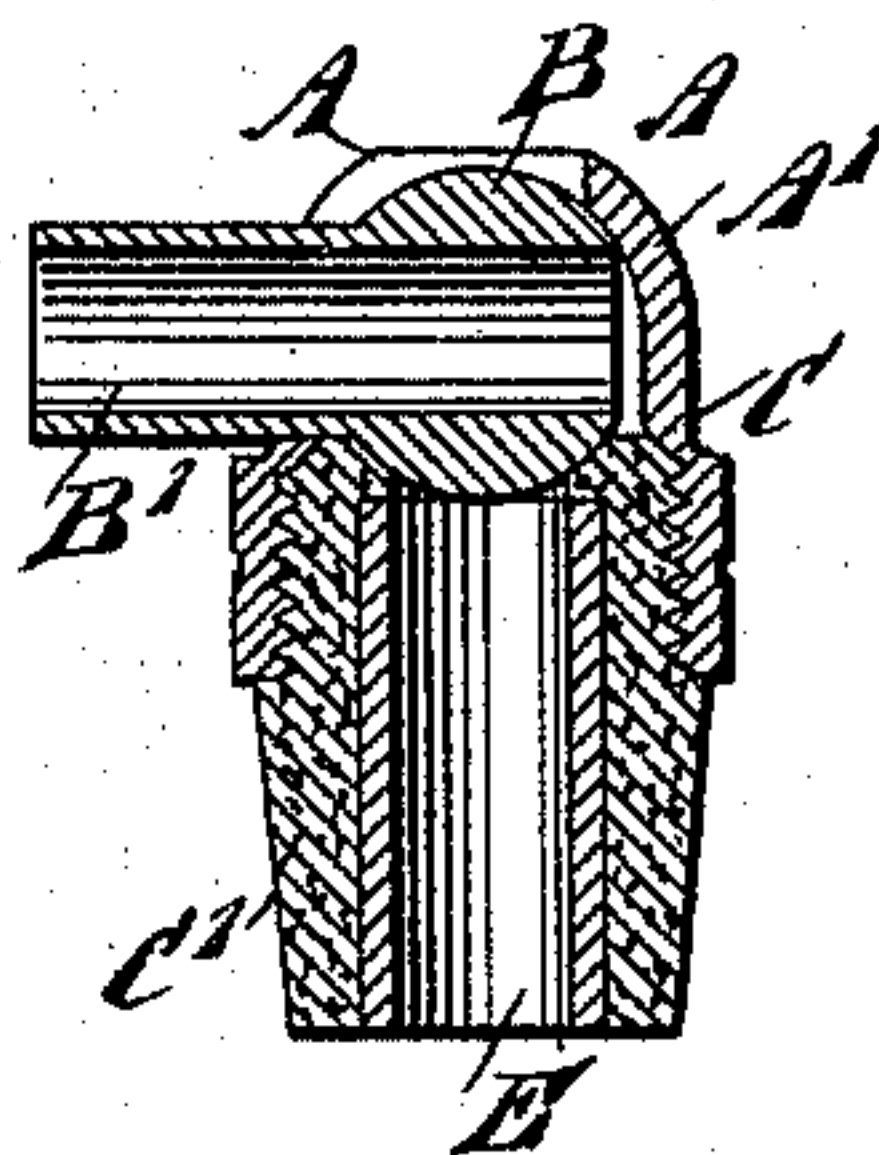
*Fig. 1,*



*Fig. 2,*



*Fig. 3,*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HENRY FRIEDMAN, OF NEW YORK, AND HERMAN M. KOELBEL, OF  
BROOKLYN, NEW YORK.

## BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 573,212, dated December 15, 1896.

Application filed April 15, 1896. Serial No. 587,631. (No model.)

*To all whom it may concern:*

Be it known that we, HENRY FRIEDMAN, of New York city and county, and HERMAN M. KOELBEL, of Brooklyn, in the county of Kings, State of New York, have invented a new and Improved Bottle-Stopper, of which the following is a full, clear, and exact description.

The invention relates to improvements in bottle-stoppers, and has for its object to provide a stopper for controlling the inflow and outflow of fluids in a very simple and effective manner.

The invention consists in the particular construction and arrangement of parts, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a sectional side elevation of the same, and Fig. 3 is a transverse section of the same with the valve in a closed position.

Referring to the drawings, A is a casing formed in its outer end with a semispherical valve-bearing A' for the ball-valve B, formed with a central bore extending into a discharge-pipe B'. This pipe B' extends through a slot A<sup>2</sup>, formed in one side of the casing A, so that the ball-valve B can be swung into a vertical position, as illustrated in Figs. 1 and 2, or into an angular position, as illustrated in Fig. 3.

The inner end or bottom of the valve B is engaged by a valve-seat C on a stopper C' proper, screwing in the hub part of the casing A, so as to move the seat C firmly in contact with the ball-valve B. The stopper C' is preferably provided with a metallic central pipe E, leading to the opening of the valve-seat C.

Now it will be seen that by the arrangement described the ball-valve B is in an open position when standing vertically, as illustrated in Figs. 1 and 2, so that the bore of the valve registers with the opening in the valve-seat C and the pipe E. When the valve is in this

position, the contents of the bottle D can be readily poured out or the bottle filled, as the case may be. When it is desired to close the bottle, the operator simply swings the valve B into an angular position, as shown in Fig. 3, so that the seat C is engaged by the solid portion of the ball-valve B, and consequently the stopper is closed. This stopper-valve is very serviceable on bottles adapted to contain liquids liable to evaporate, such as perfumery, whisky, brandy, and the like.

It will be seen that the seat is movable in the casing A to securely engage the ball-valve B, so as to prevent any leakage at this point.

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

1. A bottle-stopper, comprising a casing having a semispherical outer end, and provided with a slot in one side of the said end, a ball-valve having a central bore and provided with a discharge-pipe leading from said bore and extending out through the slot of the casing, and serving as a handle for manipulating the valve and a longitudinally-apertured stopper proper having its upper end secured in the casing and forming a seat for the said valve, substantially as described.

2. A bottle-stopper, consisting of a casing having its lower portion internally screw-threaded, and provided with a semispherical upper end having a slot in one side, a ball-valve having a central bore and provided with a discharge-pipe leading from the bore of the valve and extending out through the slot of the casing, and serving as a handle for manipulating the valve and a stopper proper provided with a central pipe and screwing into the casing with its upper end into contact with the valve and forming a seat therefor, substantially as herein shown and described.

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Witnesses:

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