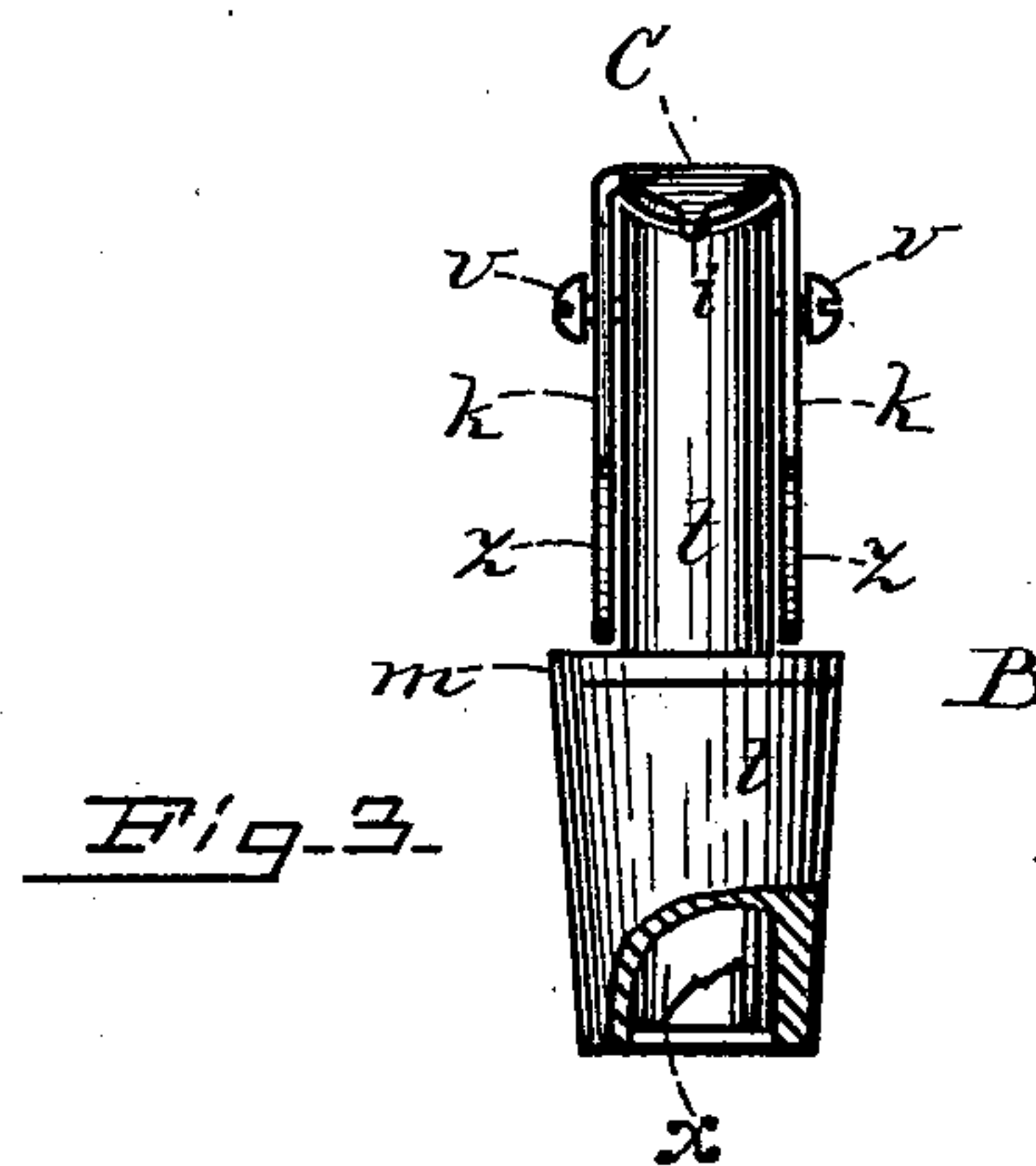
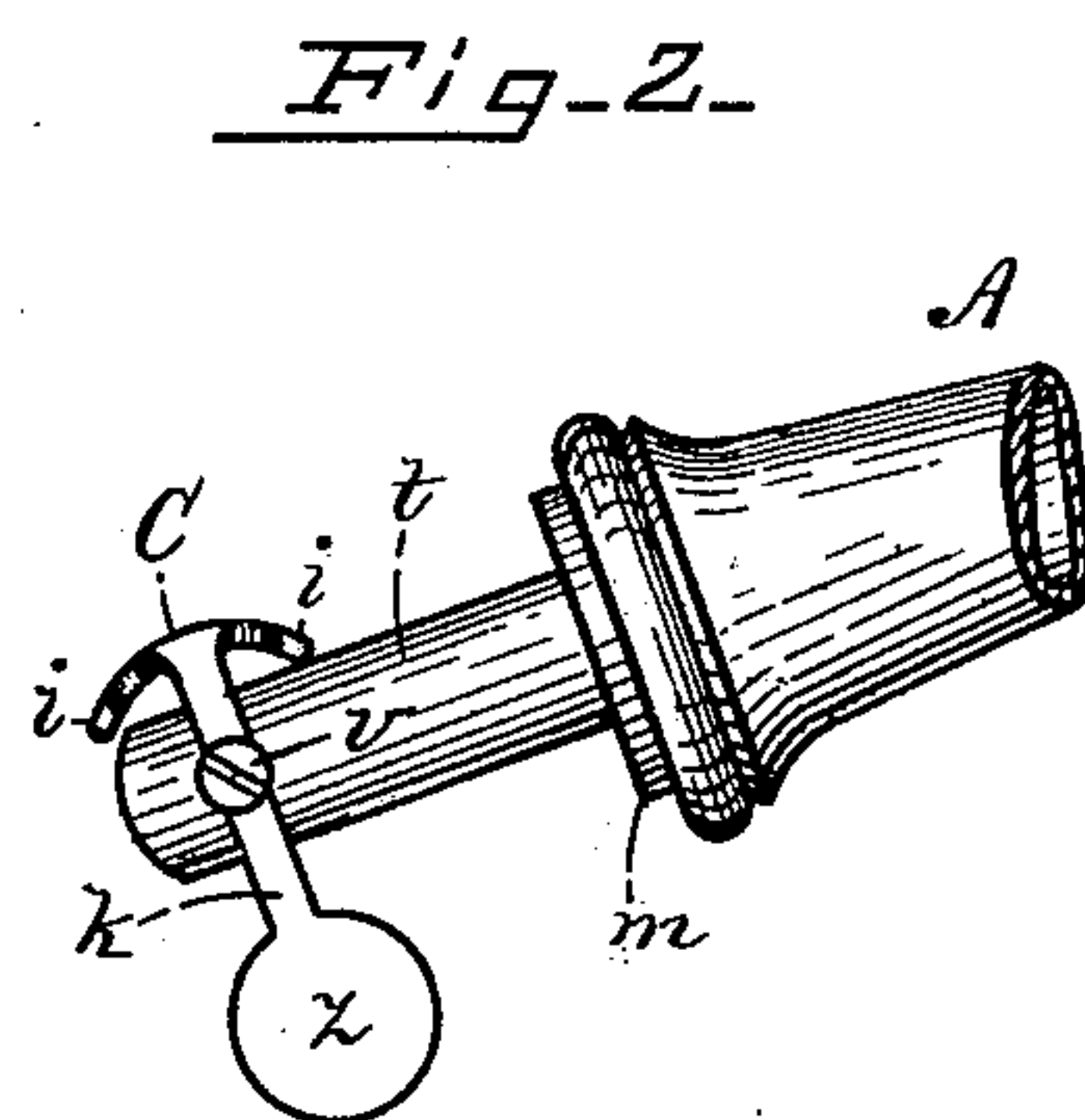
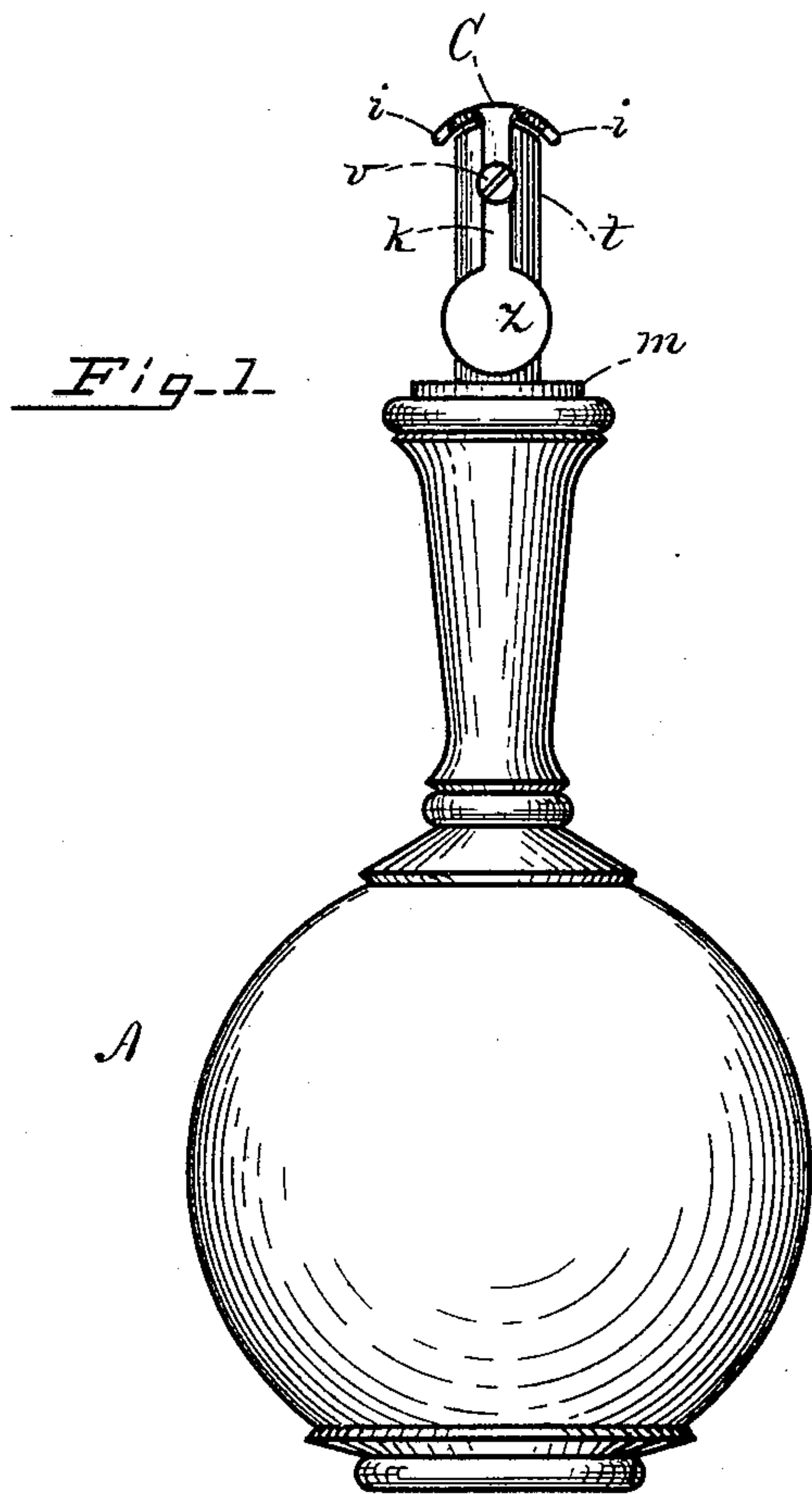


(No Model.)

W. WRIGHT.
BOTTLE STOPPER.

No. 386,176.

Patented July 17, 1888.



WITNESSES=
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UNITED STATES PATENT OFFICE.

WILLIAM WRIGHT, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF
AND GRANVILLE O. AVERY, OF SAME PLACE.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 386,176, dated July 17, 1888.

Application filed May 10, 1888. Serial No. 273,454. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WRIGHT, of Boston, in the county of Suffolk, State of Massachusetts, have invented a certain new and
5 useful Improvement in Bottle-Stoppers, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same,
10 reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of a decanter or cruet provided with my improved stopper;
15 Fig. 2, a side elevation of the stopper and a portion of the neck of the decanter, the stopper being represented as open; and Fig. 3 a side elevation, partially in section, of the stopper detached and closed.

20 Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of bottle-stoppers which are automatic or self-closing;
25 and it consists in certain novel features, as hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

30 The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents an ordinary
35 decanter or cruet, and B the stopper considered as a whole. The body of the stopper, or stopper proper, consists of a metallic tube, *x*, which is provided with a metallic top or cap, *m*, and surrounded or incased by a cork bush-
40 ing, *d*, to enable it to be fitted tightly in the neck of the vessel with which it is used. Projecting vertically from the center of the cap *m* there is a tube or nozzle, *t*, the lower end of which opens into the tube *x*. A cap, C, is
45 provided for closing the upper end of the nozzle *t*, said cap having two vertically-projecting arms, *k*, which are pivoted at *v* to the opposite sides of said nozzle and provided with plates or weights *z*, which act by gravitation
50 to open or close the stopper, as the case may be. The upper end or mouth, *h*, of the nozzle is curved and forms the arc of a circle of

which the pivots *v* are the center. The cap C is correspondingly curved and forms the arc
55 of a slightly-larger circle than the mouth of the nozzle.

In the use of my improvement the stopper is inserted in the neck of the decanter, cruet, or other vessel with which it is employed, as shown in Fig. 1, and when said decanter is
60 erect or stands in a vertical position, the weights *z* will cause the cap C to close the mouth *h*; but when the decanter is tipped or turned down to pour out its contents the weight *z* will fall and open the stopper in a
65 manner that will be readily understood by all conversant with such matters without a more explicit description. To prevent the weights from falling too far when the decanter is tipped, and thus interfering with the stream
70 of liquid as it is poured out, the cap C is provided with a projection or stop, *i*, on each of its opposite sides midway between the arms *k*, one of said stops coming into contact with the side of the nozzle *t* and stopping the de-
75 scent of the weights before they pass downward far enough to permit the liquid to strike them, thus enabling the decanter to be turned into a vertical position, or upside down, if
80 necessary.

Having thus explained my invention, what I claim is—

1. In a bottle-stopper, the stopper proper, *x*, the nozzle *t*, connected with the stopper *x*, and provided with the curved mouth *h*, and
85 the curved cap C, provided with the pendent arms *k*, having the weights *z* at their lower ends, said arms being pivoted to the sides of the nozzle, all constructed, combined, and
90 arranged to operate substantially as set forth.

2. In a bottle-stopper, the stopper proper, *x*, provided with the cap *m* and bushing *d*, the nozzle *t*, connected with the stopper *x*, and provided with the curved mouth *h*, and the curved cap C, provided with the stops *i* and
95 arms *k*, having the weights *z*, said arms being pivoted to the nozzle, all constructed, combined, and arranged to operate substantially as set forth.

WILLIAM WRIGHT.

Witnesses:

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