

(No Model.)

J. J. WALSH.
CAP TO PREVENT REFILLING BOTTLES.

No. 555,348.

Patented Feb. 25, 1896.

Fig: 1.

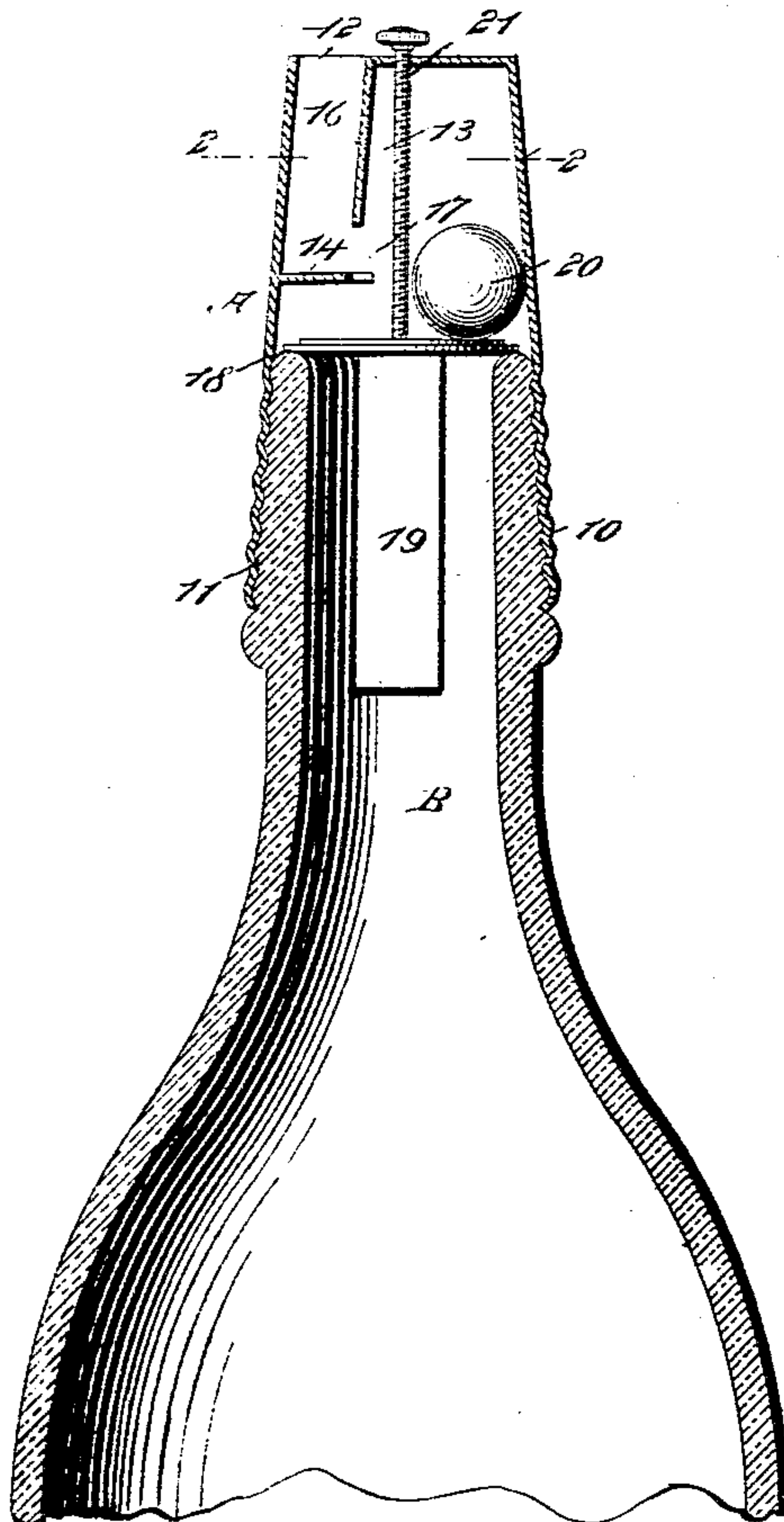


Fig: 2.

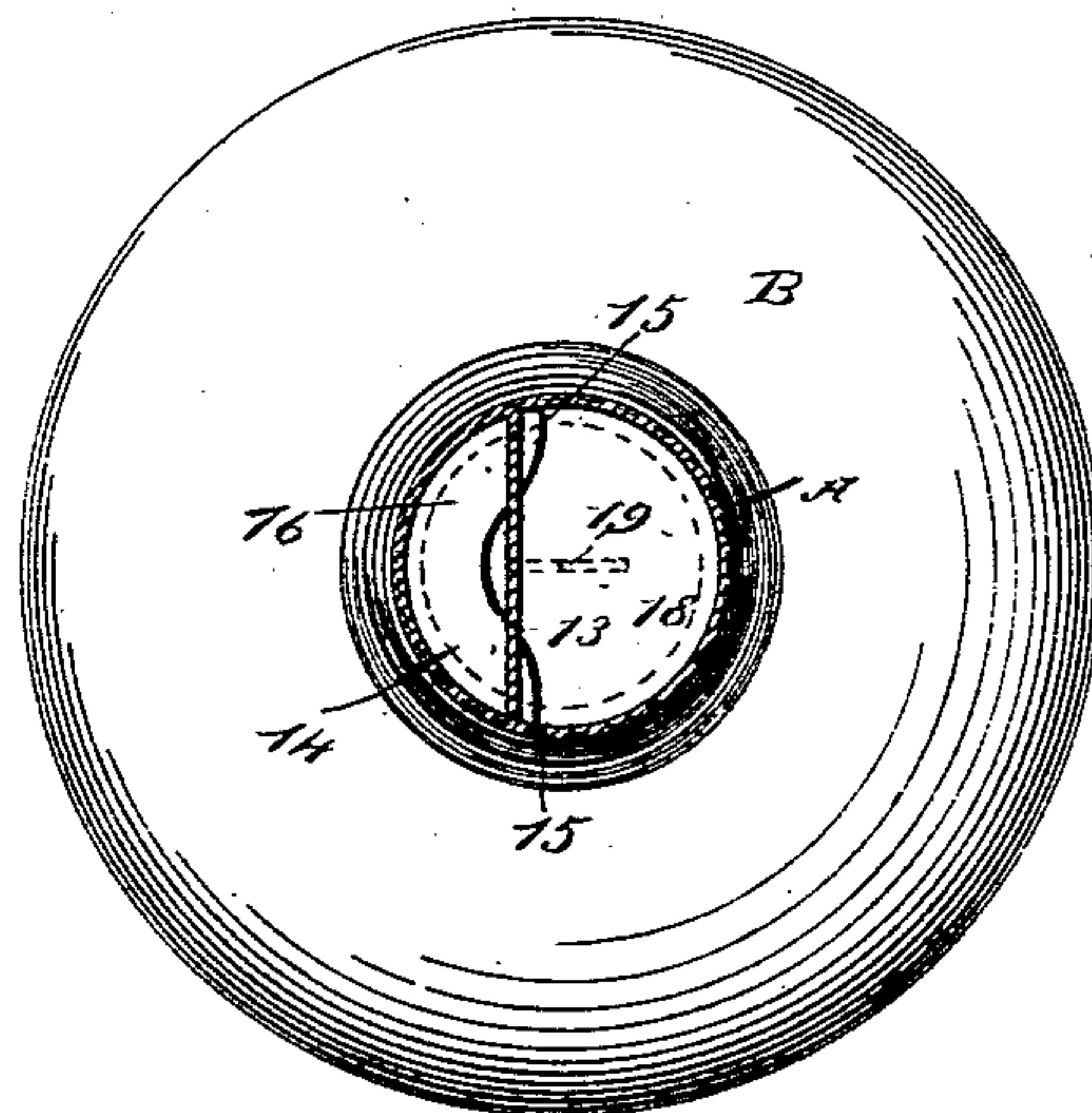
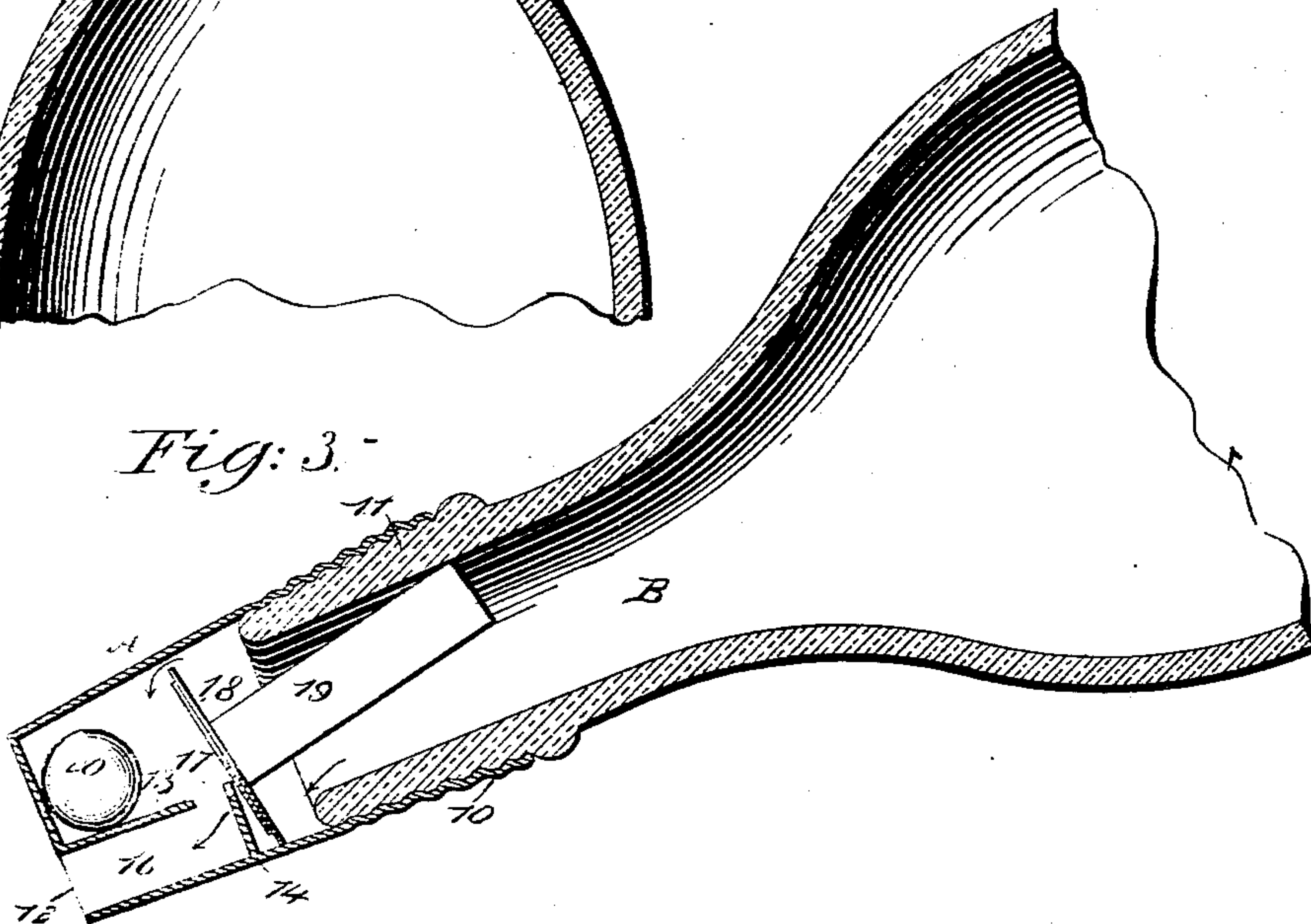


Fig: 3.



WITNESSES:

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JOHN J. WALSH, OF YONKERS, NEW YORK.

CAP TO PREVENT REFILLING BOTTLES.

SPECIFICATION forming part of Letters Patent No. 555,348, dated February 25, 1896.

Application filed June 6, 1895. Serial No. 551,894. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. WALSH, of Yonkers, in the county of Westchester and State of New York, have invented a new and Improved Cap to Prevent the Refilling of Bottles, of which the following is a full, clear, and exact description.

My invention relates to a cap or cover for bottles adapted to be a fixture thereto; and the object of the invention is to so construct the cap or cover that the mouth of the bottle may be sealed without the aid of a cork, and whereby also the contents of the bottle may be poured out through the said cap, but whereby the cap will effectually prevent the refilling of the bottle.

A further object of the invention is to provide a cap possessing the above-named characteristics which will be exceedingly simple, durable, and economic in its construction.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and 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 vertical section through the neck portion of a bottle and through the improved cap attached thereto, illustrating the cap as sealing the bottle. Fig. 2 is a transverse section through the cap, taken substantially on the line 2 2 of Fig. 1, the sealing-screw being removed; and Fig. 3 is a longitudinal section through the neck of a bottle having the improved cap applied and illustrating the position assumed by the loose members of the cap when liquid is being poured from the bottle.

In carrying out the invention the cap A is constructed of metal or other appropriate material, and is provided with a thread 10 at its base adapted to be screwed upon a corresponding thread produced upon the neck 11 of the bottle B, and in addition to screwing the cap on the neck of the bottle it is secured thereon through the medium of cement or an adhesive compound of material of any suitable description.

The cap extends some distance beyond or above the mouth of the bottle, and is closed

at the top as well as at the sides, except that an opening 12 is made in the top at one side, and a vertical partition 13 is extended downward within the cap through the inner wall of the opening and extends from side to side of the cap. The vertical partition 13 is made to approach as closely as found necessary a horizontal partition 14, likewise located within the cap, and this horizontal partition is provided with a centrally-concaved inner edge and side lips 15, (shown particularly in Fig. 2,) which lips extend beyond the inner wall of the vertical partition. Under this construction a duct 16 is made in the cap, having an opening 17 at the bottom connecting with the main chamber within the cap and at a point over the mouth of the bottle.

When the bottle has been filled, the mouth of said bottle will be closed through the medium of a plate or disk 18, having an under face of cork, rubber, or other yielding material, and a shank 19 secured to its under face at or near the center, adapted to extend downward in the neck of the bottle a predetermined distance. A ball 20 is likewise located within the cap, and in the upright position of the bottle the ball rests upon the closing or stopper disk 18, and this disk is prevented from leaving its seat at the bottle-mouth by contact with a screw 21, passed through the cap, being provided with a milled head at its upper end in order that it may be readily manipulated.

When the screw is in place, the sealing-cap will be held close over the mouth of the bottle, and its contents cannot spill. When the bottle is to be opened for use, the screw 21 is removed, whereupon, upon tilting the bottle, as shown in Fig. 3, the ball will pass into the top portion of the main chamber of the cap, while the disk 18 will leave its seat at the mouth of the bottle and the fluid will flow out therefrom through the duct in the cap.

It is evident that owing to the peculiar relation of the partitions 13 and 14 to each other, and the presence of the ball 20 in the cap, a wire or other object of like nature cannot be inserted down the duct 16 for the purpose of holding the valve, which the disk and its shank properly constitute, in position to admit of the liquid being forced into or poured into the bottle for the purpose of refilling the

same. Furthermore, this device is exceedingly simple and durable, and so economic as to add but little expense to the cost of bottling.

5 It is obvious that when the cap above described is employed there is no necessity for a cork, since the valve 18 performs all the functions of such. I desire it to be understood that the two partitions 13 and 14 may
10 be made in one, and instead of the single opening 17 both partitions may be perforated.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

15 1. A cap for bottles, having a vertical partition forming one wall of an outwardly-opening duct and also forming one wall of a chamber closed at its outer end, and a horizontal partition extending partly across the cap be-
20 low the vertical partition, a valve adapted to engage over the mouth of a bottle below the horizontal partition and having a shank adapted to extend into the neck of a bottle, and a weight movable into the chamber of the
25 cap and adapted to rest upon the valve when the bottle is in an upright position, as and for the purpose specified.

2. A cap for bottles, adapted to prevent the

refilling of the same, the said cap being provided with a duct at one side, having aper- 30
tures establishing communication with the main chamber of the cap, a gravity-valve loosely contained in the main chamber of said cap, being adapted to serve as a cork, a mov- 35
able weight located within the cap over the valve, and a temporary seal locking the valve in a closed position, substantially as shown and described.

3. A cap adapted to prevent the refilling of bottles, the same being provided with a duct 40
having an outlet at the top of the cap and its bottom separated from its side wall and projected beyond the same, the valve comprising a disk and shank located below the duct, be-
ing adapted to close the mouth of the bottle, 45
a weight loosely contained in the cap and adapted for engagement with the valve, and a screw removable from the cap, being adapted to exert downward pressure on the valve, maintaining it locked over the neck of the 50
bottle, as and for the purpose specified.

JOHN J. WALSH.

Witnesses:

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