

No. 868,516.

PATENTED OCT. 15, 1907.

C. B. WILTSE.
BOTTLE.

APPLICATION FILED JULY 7, 1906.

2 SHEETS—SHEET 1.

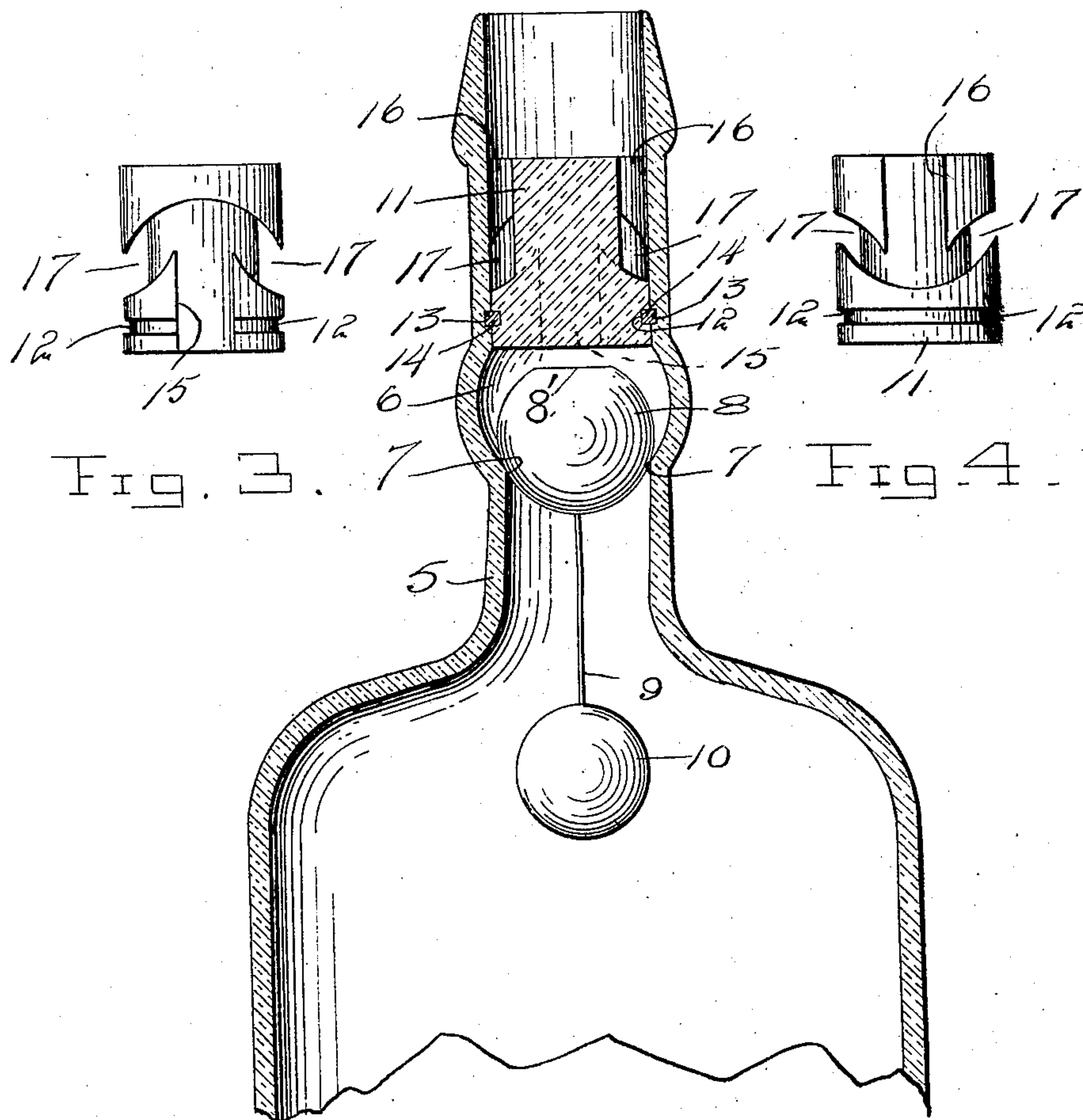


Fig. I.

Witnesses

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H. B. Mac Hale.

Inventor

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By

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2 SHEETS—SHEET 2.

Fig. 5.

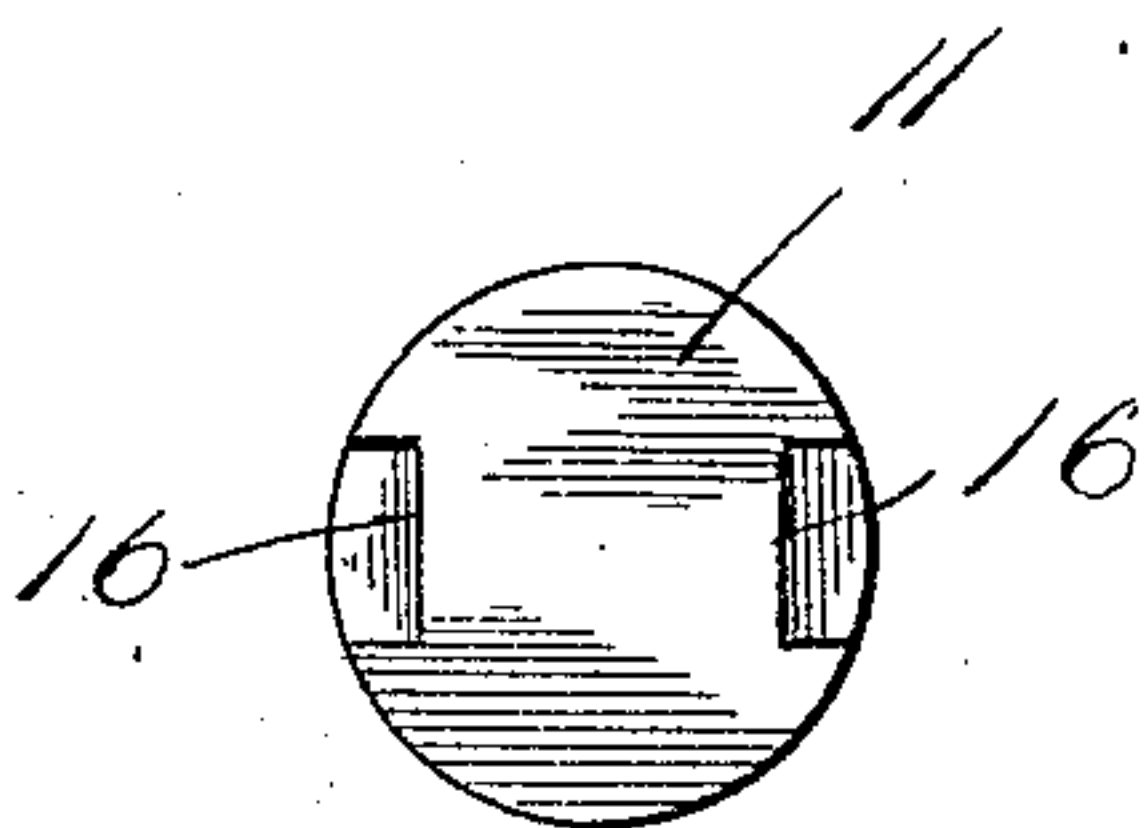
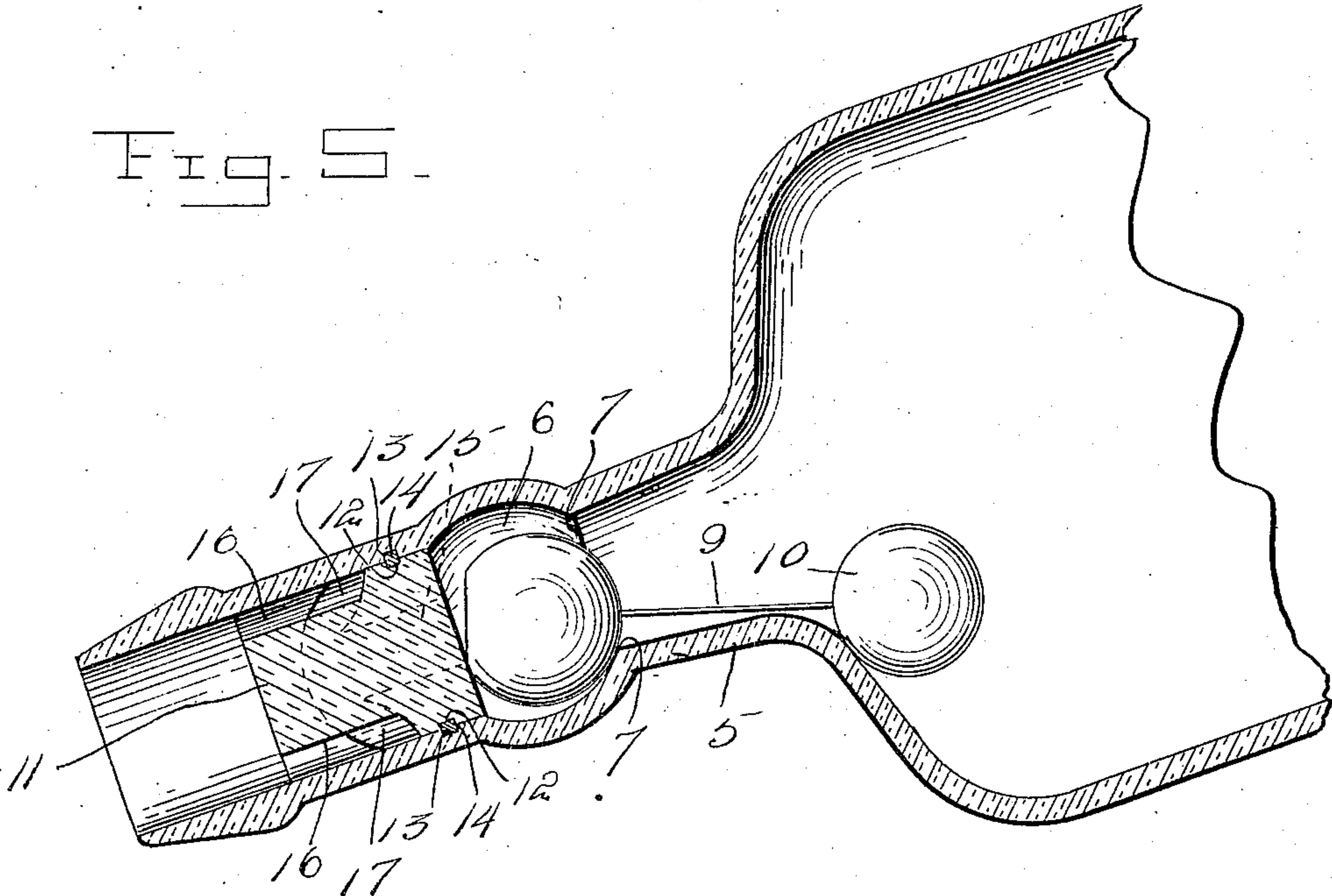


Fig. 2.

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UNITED STATES PATENT OFFICE.

CLARENCE B. WILTSE, OF MOUNT KISCO, NEW YORK.

BOTTLE.

No. 868,516.

Specification of Letters Patent.

Patented Oct. 15, 1907.

Application filed July 7, 1906. Serial No. 325,098.

To all whom it may concern:

Be it known that I, CLARENCE B. WILTSE, a citizen of the United States, residing at Mount Kisco, in the county of Westchester, State of New York, have invented certain new and useful Improvements in Bot-
tles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it apper-
tains to make and use the same.

This invention relates to bottles and has for its ob-
ject to provide a bottle so constructed that having once
been emptied, it cannot be re-filled, especial attention
being paid to the provision of means for preventing the
introduction of any implement into the bottle to un-
seat the valve thereof in an attempt to re-fill the bottle.

It is to be understood that I do not desire to be lim-
ited to the exact details of construction shown and de-
scribed, for obvious modifications will occur to a person
skilled in the art.

In the drawings forming a portion of this specifica-
tion and in which like numerals of reference indicate
similar parts in the several views, Figure 1 is a vertical
section of the present bottle, showing the valve mech-
anism thereof, the lower portion of the bottle being
broken away. Fig. 2 is a top plan view of the guard.
Fig. 3 is an elevational view of the guard, showing the
lower passages. Fig. 4 is a view taken at right angles
to Fig. 3, showing the upper passages. Fig. 5 is a sec-
tional view showing the position of the parts as the
bottle is emptied.

Referring now to the drawings, the present bottle
has a neck 5 which is enlarged between its ends, to
form a valve chamber 6, the union of this chamber
with the lower portion of the neck forming a shoulder
which acts as a valve seat 7. A ball valve 8 is located
in the chamber and is of a size to rest upon the seat 7,
to close the lower portion of the neck, and this valve
has a depending stem 9, provided with a weight 10
which lies within the body of the bottle and is thus
arranged to hold the valve 8 upon its seat when the
bottle is turned into horizontal position. The valve 8
has its upper face flattened as at 8'.

A cylindrical guard 11 is engaged in the neck above
the valve chamber and has a circumscribing groove 12
adjacent to its lower end which registers with a hori-
zontal circular groove 13 formed in the inner surface
of the neck, for the reception of an expansible retain-
ing washer 14.

Longitudinal passages 15 are formed in the guard at
diametrically opposite points, opening through the
bottom of the guard and terminating short of the upper
end thereof, and similar diametrically opposite pas-
sages 16 extend downwardly from the top of the guard
and terminate short of its bottom, the passages 16 be-
ing offset half way around the guard from the passages
15, to bring them midway between the latter. The
passages 15 extend above the lower end of the passages
16, as shown, and diagonal passages 17 connect the in-
ner end of each longitudinal passage with the adjacent
passages, so that there is formed a continuous passage
around the guard, and offset vertical passages commu-
nicating with the continuous passage and with the ends
of the guard.

It will be understood that, when the bottle is tilted
sufficiently to un-seat the valve 8, liquid will pass
from the bottle and through the several communicat-
ing passages of the guard beyond the latter. When the
bottle is returned to upright position, the valve 8 will
return to operative position, and the introduction of
any implement into the valve chamber to un-seat the
valve, will be prevented by the tortuous nature of the
passages through the guard. When the bottle is tilted,
the edge of the flattened portion bears against the un-
derneath surface of the guard, and thus constitutes a
fulcrum for permitting the valve to move to its limit
away from the seat at one side thereof, and to conse-
quently increase the size of the liquid discharge open-
ing between said valves and seat. The same result is
obtained when the bottle is wholly reversed from the
position of Fig. 1. In this last named position, the
flattened portion 8' will rest wholly upon the flattened
underneath surface of the guard.

What is claimed is:

The combination with a bottle having a valve seat in
its neck, and an enlarged portion above the seat, of a ball
shaped valve on said seat and of less diameter than said
enlarged portion, said valve having a depending portion
carrying a weight, and a guard arranged at the upper
end of said enlarged portion, and having passages cut
into the sides thereof, said guard having a flat underneath
surface, said valve having a flattened upper surface de-
signed to engage said underneath surface wholly or with
its edge portion.

In testimony whereof, I affix my signature, in presence
of two witnesses.

CLARENCE B. WILTSE.

Witnesses:

WM. RHINEHART,
WM. T. SUTTON.