

No. 869,390.

PATENTED OCT. 29, 1907.

R. J. PATTERSON.  
NON-REFILLABLE BOTTLE.  
APPLICATION FILED FEB. 7, 1907.

Fig. 1

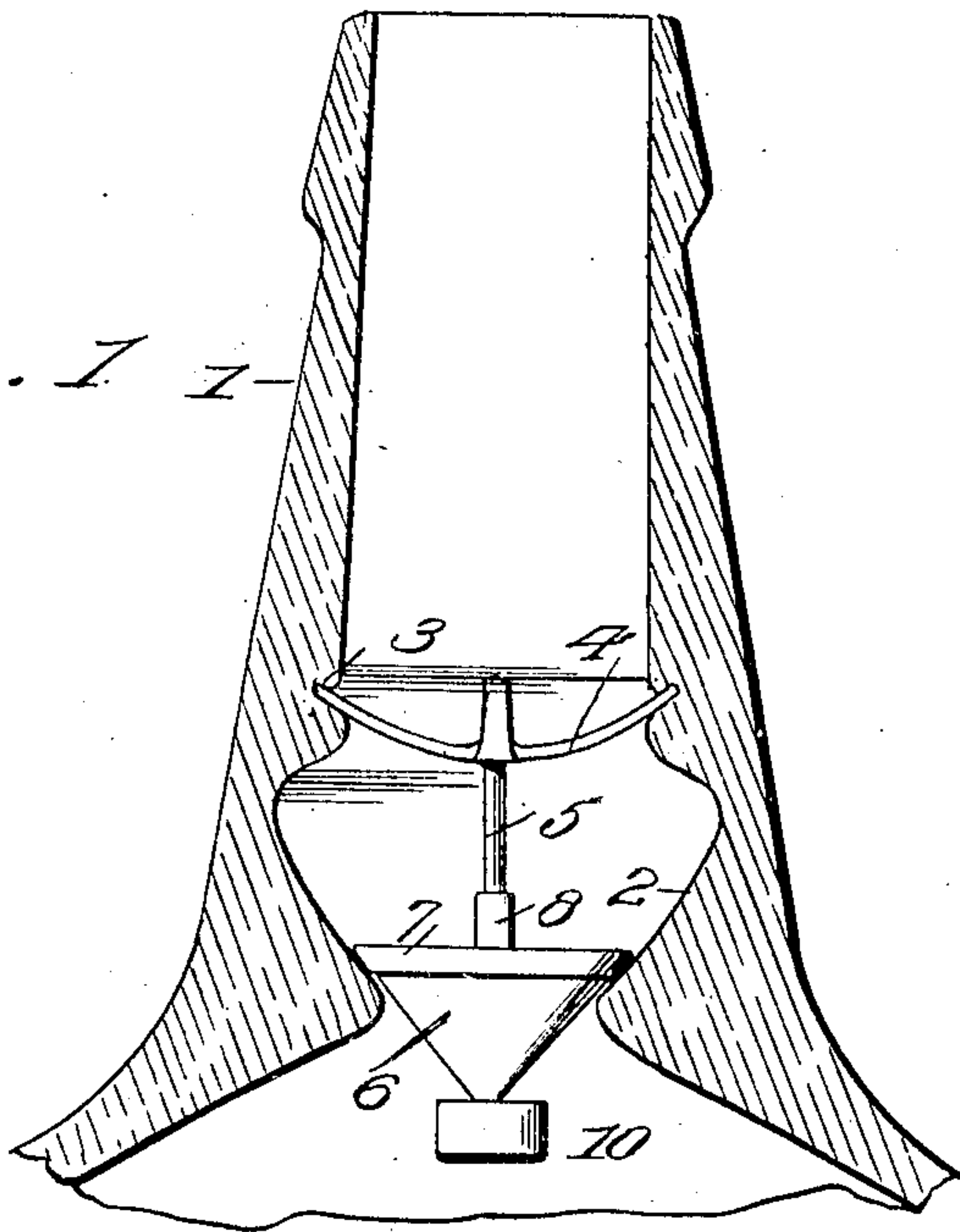


Fig. 2

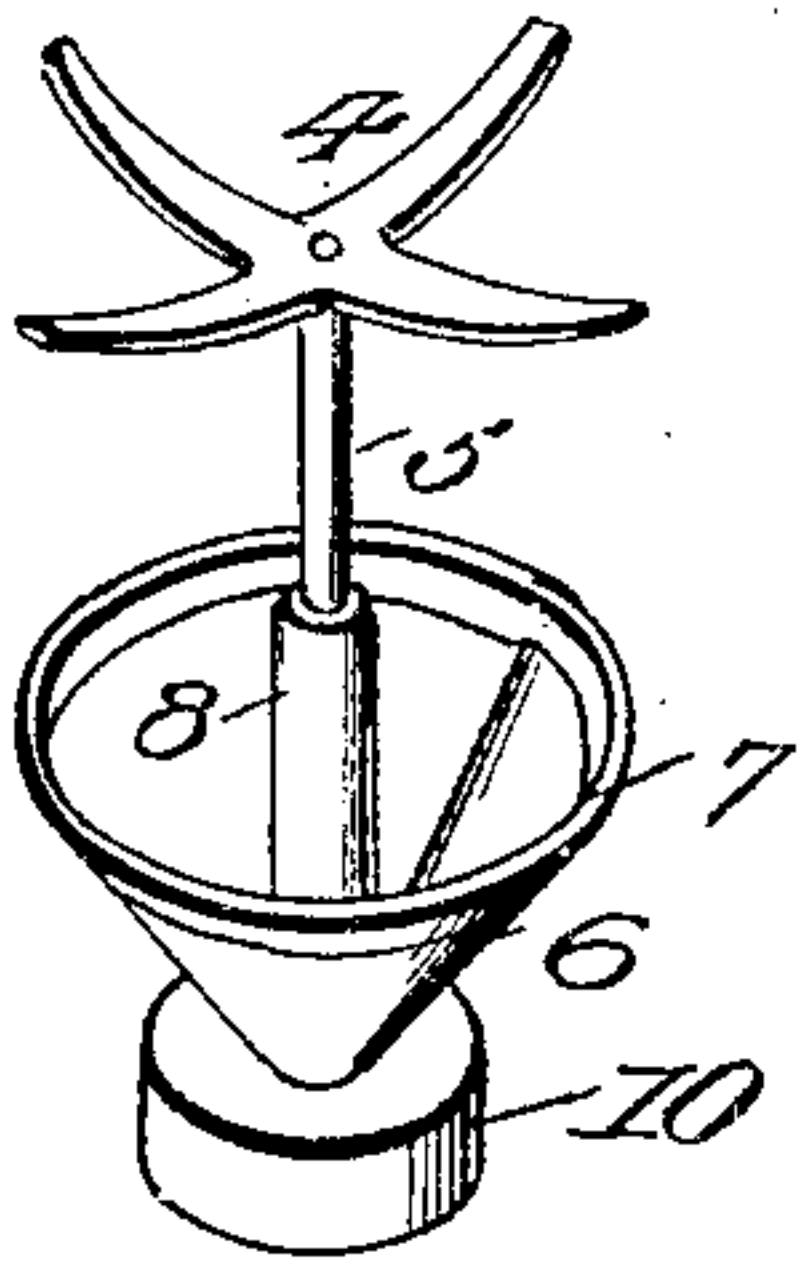
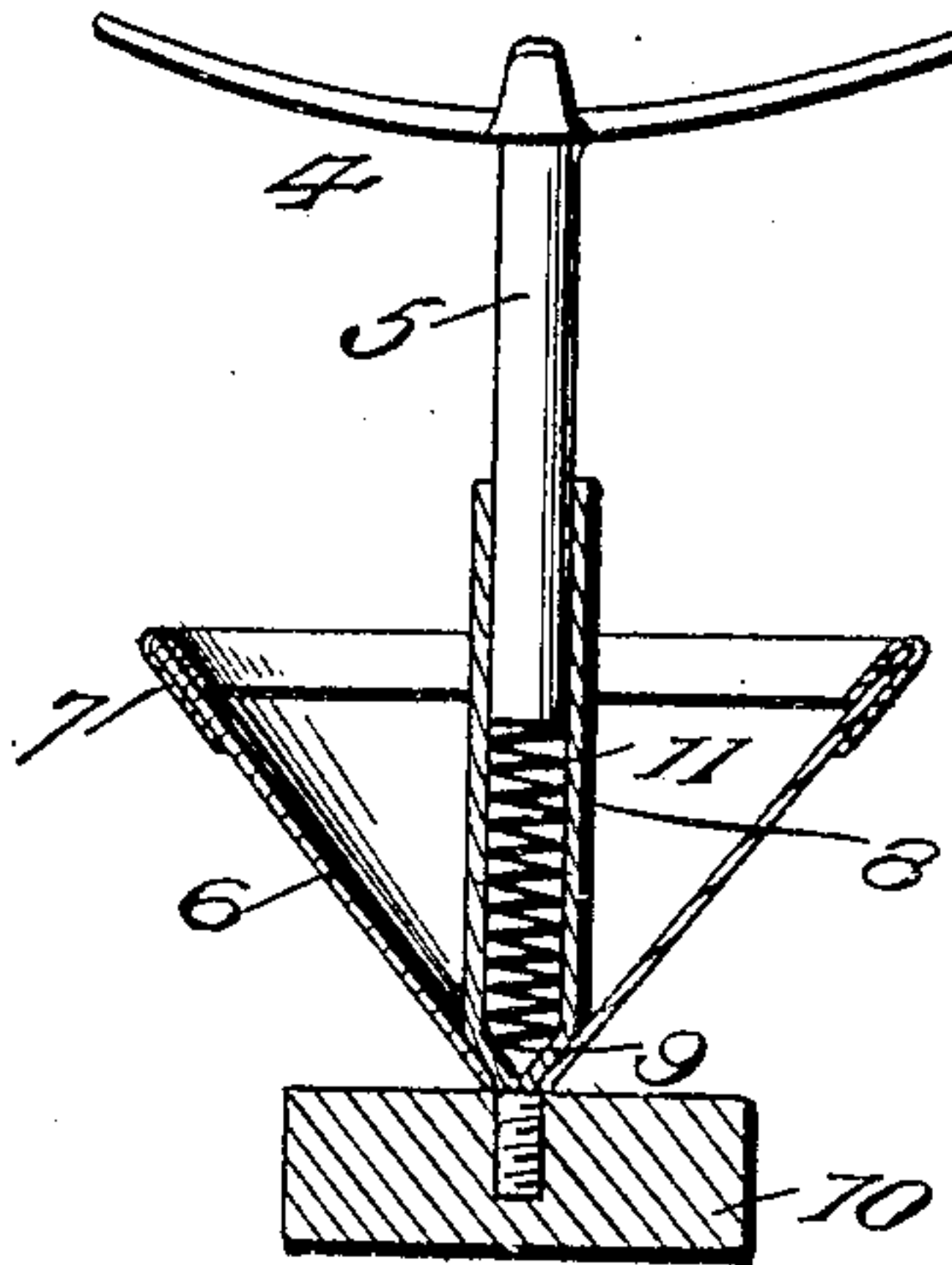


Fig. 3



Witnesses  
*[Signature]*  
W. H. Woodson

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# UNITED STATES PATENT OFFICE.

ROY J. PATTERSON, OF FORT WORTH, TEXAS.

## NON-REFILLABLE BOTTLE.

No. 869,390.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed February 7, 1907. Serial No. 356,243.

*To all whom it may concern:*

Be it known that I, ROY J. PATTERSON, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Non-Refillable Bot-

5 tles, of which the following is a specification.

This invention appertains to bottles, or like recep-  
tacles, and has for its object to prevent the reuse of the  
same after their contents have been drawn off, thereby  
10 insuring to the consumer the brand of goods desired  
and at the same time preventing unscrupulous parties  
from dispensing an inferior article under the label, or  
brand applied to the genuine goods.

For a full description of the invention and the merits  
15 thereof and also to acquire a knowledge of the details  
of construction and the means for effecting the result,  
reference is to be had to the following description and  
accompanying drawings.

While the invention may be adapted to different  
20 forms and conditions by changes in the structure and  
minor details without departing from the spirit or essen-  
tial features thereof, still the preferred embodiment is  
shown in the accompanying drawings, in which:

Figure 1 is a vertical central section of the neck por-  
25 tion of a bottle, provided with protective means em-  
bodying the invention. Fig. 2 is a perspective view  
of the protective means. Fig. 3 is a sectional view of  
the protective means showing the parts on a larger  
scale.

30 Corresponding and like parts are referred to in the  
following description and indicated in all the views of  
the drawings by the same reference characters.

The bottle or other receptacle provided with a neck  
1 has a valve seat 2 near the inner, or lower end of the  
35 neck and an annular groove 3 a short distance from said  
valve seat. The valve seat 2 upwardly flares and is  
formed by thickening the neck 1 at its base, or junc-  
ture with the body of the bottle or receptacle. A  
spider 4 is sprung into the groove 3 and when in position  
40 normally curves downward, thereby preventing the  
withdrawal of the spider without fracturing the bottle  
so as to preclude effective use thereof. A stem 5 is  
pendent from the center of the spider 4 and may be  
secured thereto in any way. The spider 4 is resilient,  
45 yet sufficiently stout to prevent its removal from the  
neck of the bottle after being pressed home into the  
groove 3. The valve 6 is expansible and is of conical  
form and is composed of sheet material, metal being  
preferred, the blank being of circular outline and hav-  
50 ing a central opening, and a sector shaped portion cut  
from one side so that when the separated edges are  
brought together the blank will assume the conical  
shape substantially as shown. The upper edge of the  
valve is reinforced by means of a rubber band 7 fitted

thereto. The upper edge of the band embraces the 55  
upper edge of the valve so as to prevent downward dis-  
placement of the band on the conical surface of the  
valve. The rubber band, or elastic 6 performs the  
double office of drawing the separated edges of the  
blank together and of providing a packing to insure 60  
the formation of a tight joint between the valve and  
its seat.

A hollow stem 8 has its lower portion reduced and  
threaded and passed through the opening at the apex  
of the valve. The shoulder 9 at the base of the reduced 65  
portion of the stem tapers to conform approximately  
to the inclination of the walls of the valve. A weight  
10 is threaded upon the projecting end of the stem 8 and  
serves as a nut to secure the valve thereon. A light  
spring 11 is placed within the stem 8 and acts jointly 70  
with the weight 10 to insure the firm seating of the  
valve. The lower end of the stem 5 is in contact with  
the upper end of the spring 11. When the bottle, or  
receptacle is tilted to pour off the contents thereof, pres-  
sure upon the lower side of the valve 6 unseats the same 75  
and permits the liquid contents of the bottle to pass off  
freely. When the bottle is placed in an upright posi-  
tion, the combined action of the weight 10 and spring  
11 insures firm seating of the valve and prevents filling  
of the bottle in the ordinary way. 80

Having thus described the invention what is claimed  
as new is:

1. In combination, a bottle or receptacle, having a valve  
seat within the lower portion of its neck, a valve closing  
downward upon said seat, a stem fitted to said valve and 85  
having its lower end reduced and passed through the  
valve, and a weight fitted to the lower projecting end of  
the stem and confining the valve in position thereon.

2. In combination, a bottle or necked receptacle having  
a valve seat within the lower portion of the neck, a valve 90  
of approximately conical form and expansible and arranged  
to close downward upon the said seat, a stem fitted to the  
valve, means for seating the valve, and other means for  
directing the valve in its movements.

3. In combination, a bottle or necked receptacle, having 95  
a valve seat within the lower portion of the neck, an ex-  
pansible valve of approximately conical form, closing  
downward upon said seat, a stem having its lower end  
reduced and threaded and passed through an opening at  
the apex of said valve and a weight mounted upon the 100  
threaded end of the stem and confining the valve between  
the said weight and the shoulder formed at the base of the  
reduced end portion of said stem.

4. In combination, a bottle or necked receptacle having  
an inner valve seat, an expansible valve closing downward 105  
upon said seat, and an elastic band fitted to the upper por-  
tion of the valve to form a packing and to hold the valve  
in contracted position.

5. In combination, a bottle or necked receptacle having  
an inner flange seat, a conical valve consisting of a circu- 110  
lar blank having a sector-shaped portion removed from a  
side thereof and bent into conical form, and an elastic  
band fitted to the upper edge of the valve and embracing  
said edge and serving to hold the separated edges of the



blank together and to form a packing to insure the formation of a tight joint between the valve and its seat.

6. In combination, a bottle having an inner valve seat and an inner groove a short distance from the valve seat,  
5 a spider sprung into said groove, a stem pendent from the spider, a valve adapted to close downward upon said valve seat and having an opening in its apex, a hollow stem fitted to the apex of the valve and having its lower  
10 end reduced and threaded and passed through said opening in the apex of the valve, a weight fitted to the projecting

end of the stem and a spring arranged within the hollow stem and in contact at its upper end with the aforementioned pendent stem.

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

ROY J. PATTERSON. [L. S.]

Witnesses:

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D. W. HARVARD.