

No. 688,574.

Patented Dec. 10, 1901.

H. W. AVERY.
NON-REFILLABLE RECEPTACLE.

(Application filed Oct. 5, 1899.)

(No Model.)

Fig. 1,

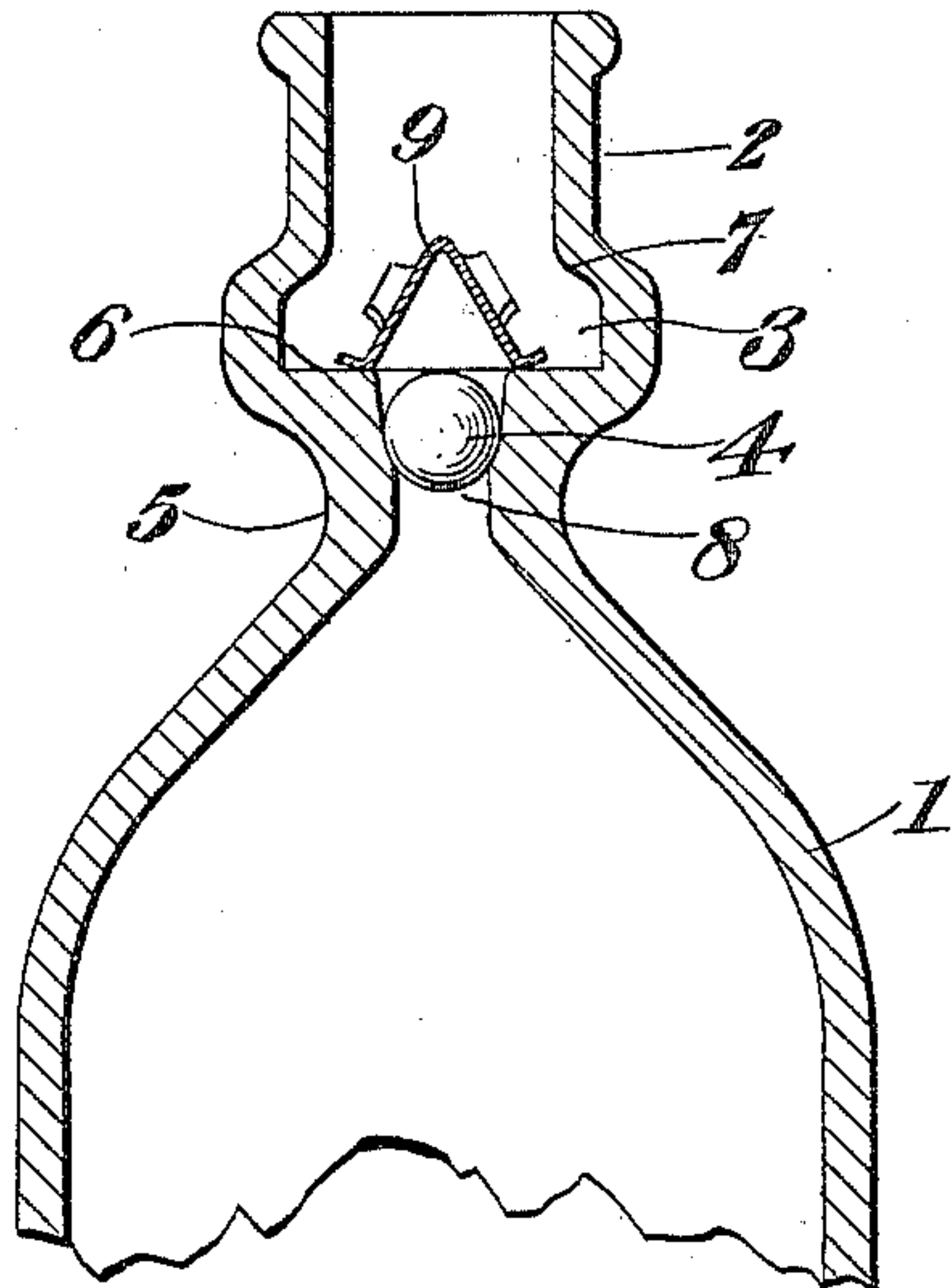


Fig. 3,

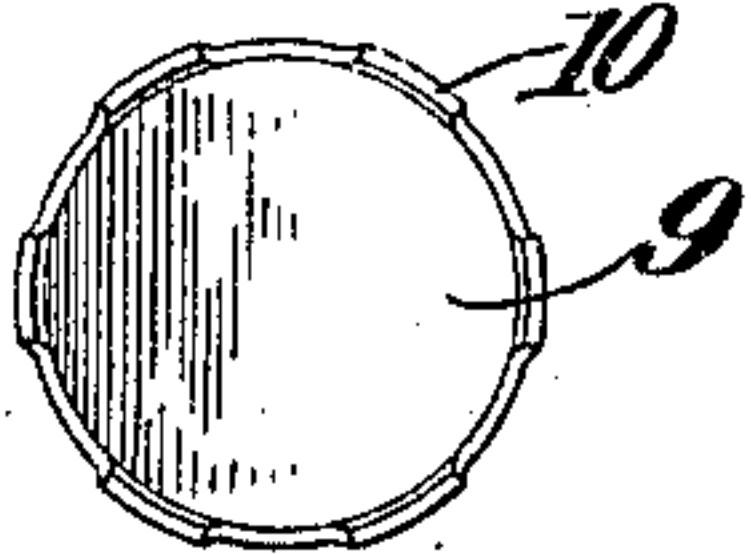


Fig. 4,

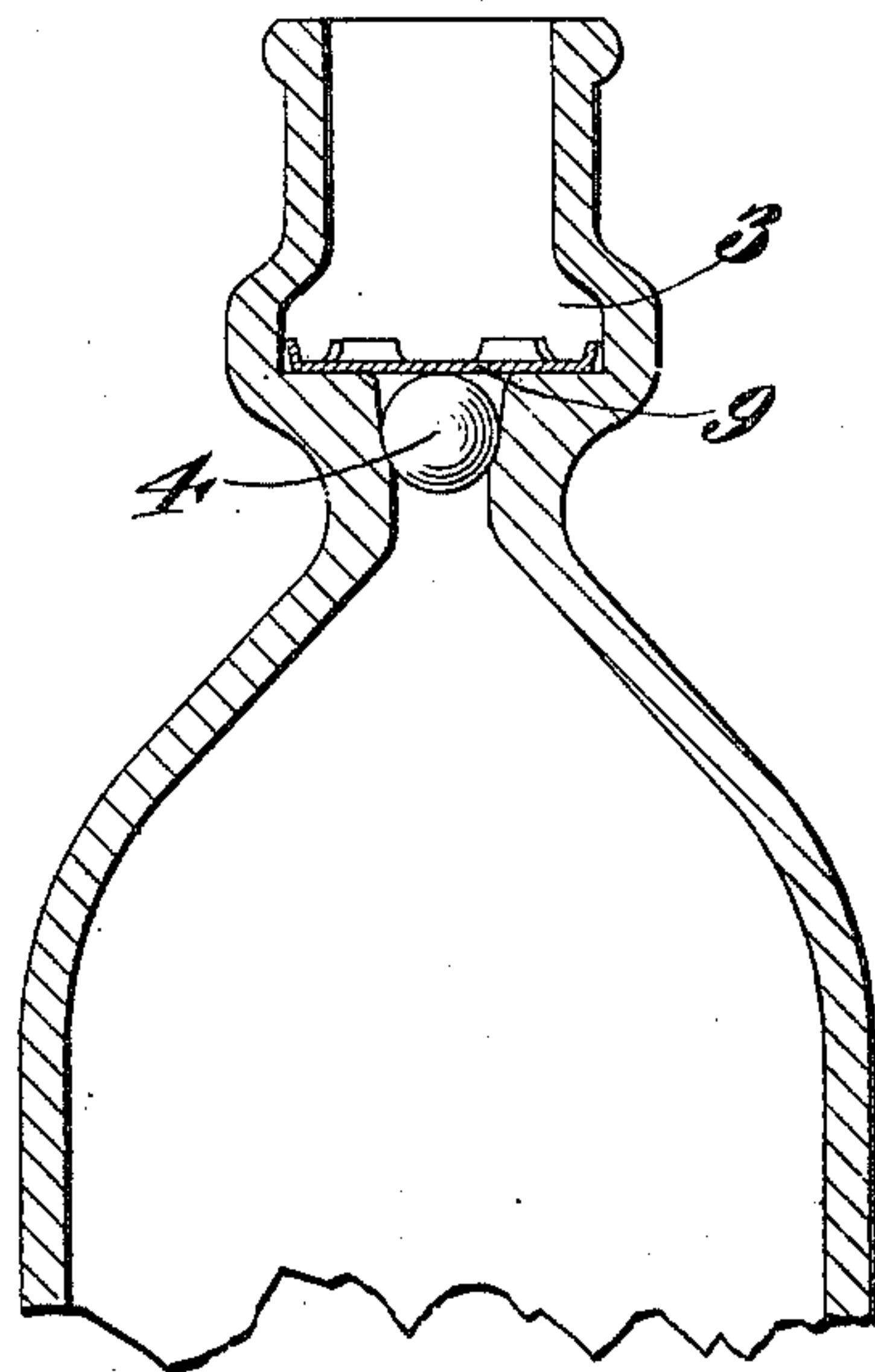
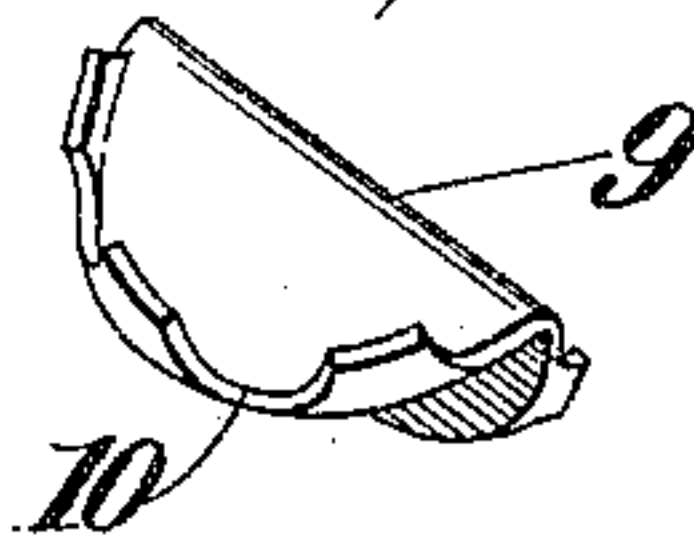


Fig. 2,

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Inventor,
Henry W. Avery,
By his Attorneys,
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UNITED STATES PATENT OFFICE.

HENRY W. AVERY, OF CLEVELAND, OHIO.

NON-REFILLABLE RECEPTACLE.

SPECIFICATION forming part of Letters Patent No. 688,574, dated December 10, 1901.

Application filed October 5, 1899. Serial No. 732,614. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. AVERY, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Non-Refillable Receptacles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My invention relates to means for preventing the refilling of bottles, jugs, &c., after they have once been emptied; and its object is to provide for the accomplishment of this means which shall be very simple and cheap to construct and efficient in operation, being neat in appearance, durable, and not contaminating to the contents of the receptacle.

Another object of my invention is to provide a closing member adapted to be marked with the name or trade-mark of the maker of the contents, whereby if the closing member should be destroyed, and thus removed from the bottle, a similar new member could not be supplied without infringing the owner's trade-mark or other rights.

The invention comprises a closure for a receptacle consisting of a plate or disk bent crosswise on a line substantially parallel with the diameter and capable of being re-formed in the neck of a receptacle to make a baffle or valve, the neck having an enlargement and a seat at the base of the enlargement onto which the closure drops, swinging into position and arching the bore of the lower portion of the neck, which is preferably contracted, and covering the bore when the baffle is re-formed by pressure.

In the drawings, Figures 1 and 2 are vertical sections of the receptacle and closure, Fig. 1 showing the closure as it is being applied and Fig. 2 showing it after it has been re-formed in the neck of the receptacle. Fig. 3 is a plan view of the baffle or valve before it is bent or after it is re-formed, and Fig. 4 is a view in perspective of the bent baffle or valve ready to be applied.

In the drawings, 1 represents the upper portion of a bottle or jug or similar receptacle, and 2 the neck thereof, having an enlargement 3. An ordinary cork ball-valve 4 is inserted in the cylindrical and preferably con-

tracted portion 5, the bore of which is so formed that it will permit the entrance of a ball from above and prevent it from falling through into the body of the bottle or jug. Between the cylindrical portion 5 and the enlargement 3 there is an annular shoulder 6, shown here as at right angles to the bore of the neck and forming a seat at the base of the enlargement.

7 indicates the upper shoulder of the enlargement. Below the enlargement is the bore 8 of the portion 5, smaller than the mouth of the bottle and preferably, as illustrated, contracted, so as to enable the ball-valve to rest in the contracted portion without projecting into the enlarged portion.

The closure may be of various forms within the spirit of this invention. It is here illustrated as a metal disk 9, having its edges notched or scalloped, as at 10. This disk is bent along a line substantially parallel with its diameter to permit it to enter the mouth of the receptacle. The closure may be dropped into the mouth of the receptacle either face down or sidewise, and in either event it will be sure to catch on the seat at the base of the enlargement and swing into position, arching the bore 8, so that a longitudinal pressure will re-form it into a disk baffle or valve, which will always cover the bore 8.

The disk may be of any suitable material, as aluminium or some metal which can be readily pressed into shape. It may of course be marked with the name of the maker, or other additional protective data may be applied. When in place, the closure acts as a baffle and in conjunction with the cork forms an efficient valve. In use even if the closure be forced against the upper shoulder of the enlargement 3 the contents of the receptacle can still pass through the notches 10.

Having described my invention, I claim—

1. A closure for a receptacle consisting of a plate bent substantially along the line of its diameter to permit it to enter the mouth of the receptacle and capable of being re-formed therein to make a movable baffle or valve of greater diameter than the mouth of the receptacle, substantially as described.

2. A closure for a receptacle consisting of a plate or disk bent crosswise on a line sub-

stantially parallel with the diameter, and capable of being re-formed in the neck of a bottle to make a baffle or valve.

3. A closure for a receptacle consisting of
5 a metal disk bent substantially on its diameter in combination with a receptacle having an enlargement in its neck and a seat at the base of the enlargement on which the closure rests, swinging into a position with its bent
10 diameter parallel with the plane of the seat.

4. A closure for a receptacle consisting of a plate bent substantially along the line of its diameter to permit it to enter the mouth of the receptacle and capable of being re-formed
15 therein to make a movable valve of greater diameter than the mouth, combined with such receptacle having an enlargement in its neck which such re-formed plate is adapted to loosely occupy, substantially as described.

20 5. A closure for a receptacle consisting of a plate bent substantially along the line of its diameter to permit it to enter the mouth of the receptacle, and having an upturned edge

to it and notches in this edge, combined with such receptacle having an enlargement in its neck which the plate is adapted to loosely occupy, said plate being adapted to be re-formed within said enlargement to make a movable valve of greater diameter than the mouth of the receptacle, substantially as described. 25 30

6. A closure for a receptacle consisting of a plate bent on its diameter in combination with a bottle having an enlargement in its neck with a contracted neck below the enlargement forming a seat on which the plate
35 lodges and swings into position, arching the contracted portion whether the plate be dropped in that relative position, or with its bent diameter at an angle to the plane of the seat. 40

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

HENRY W. AVERY.

Witnesses:

ALBERT H. BATES,
H. M. WISE.