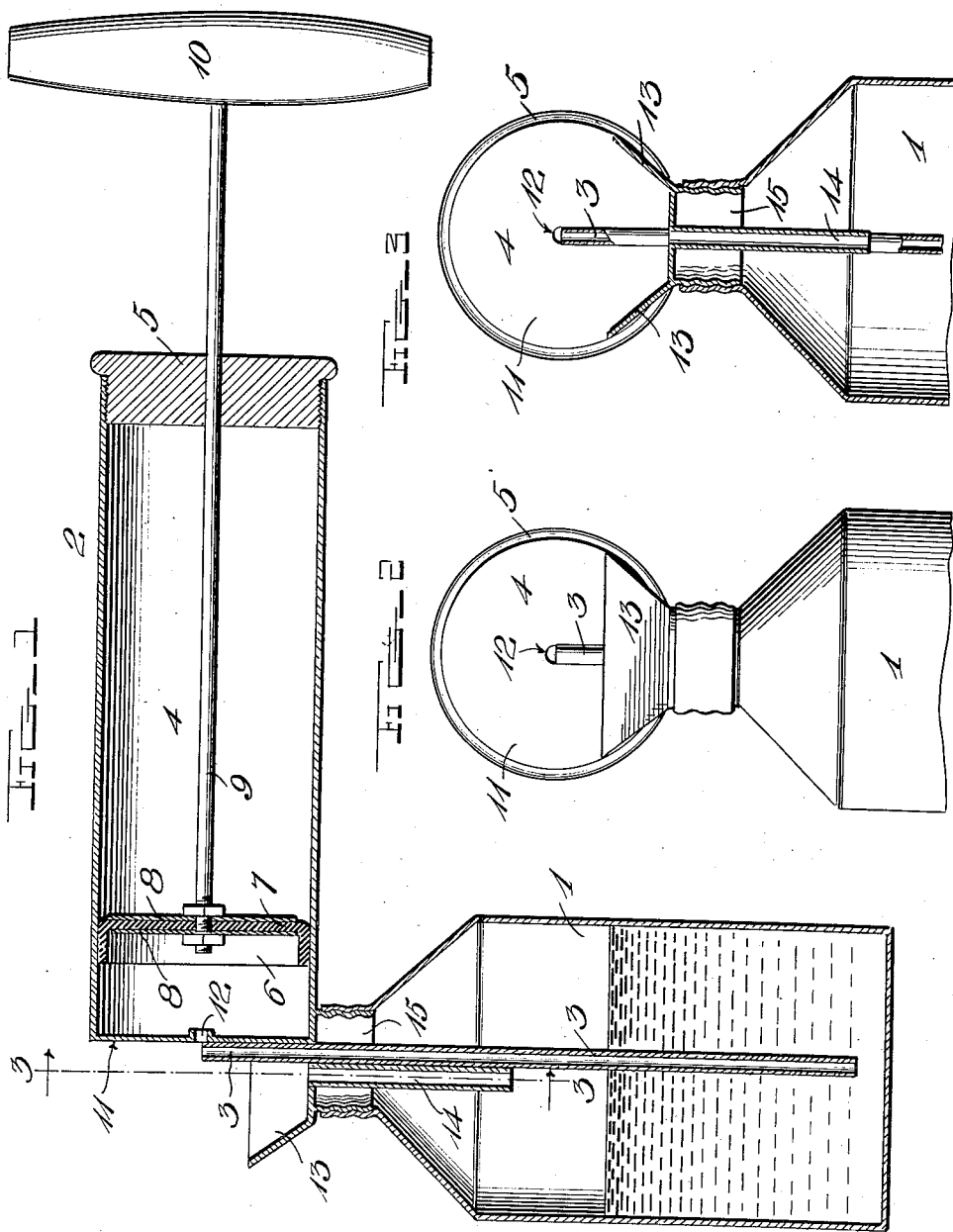


C. H. RATH.  
 SPRAYING ATTACHMENT.  
 APPLICATION FILED MAR. 25, 1909.

958,536.

Patented May 17, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## SPRAYING ATTACHMENT.

958,536.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed March 25, 1909. Serial No. 485,772.

*To all whom it may concern:*

Be it known that I, CHARLES H. RATH, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Spraying Attachments; and I do 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 appertains to make and use the same.

This invention relates to new and useful improvements in spraying devices of that class which depend upon their action by intermittently forcing a jet of air immediately over the upper end of the liquid supply tube and has for its object to so construct the device that any waste fluid not carried off with the spray will be collected and returned to the liquid containing can or receptacle.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a central longitudinal section of a spraying device embodying my improvements; Fig. 2 is an end view thereof; Fig. 3 is a vertical transverse section taken on line 3-3 of Fig. 1.

In the embodiment illustrated, the numeral 1 indicates the liquid containing can or receptacle, and 2 the air pump for forcing jets of air over the upper or outlet end of the supply tube 3. As shown, the air pump comprises a cylinder 4 closed at its outer end by a cap 5. A piston 6 consisting of a rubber washer 7 clamped between two clamping plates 8 is removably secured upon the inner end of the piston rod 9, the outer end of which extends through the cap 5 of the cylinder and is provided with the usual operating handle 10. The inner end of the cylinder is also closed in by the wall 11 which is provided with a central opening or aperture 12 immediately opposite and extending slightly above the upper end of the supply tube 3 through which aperture the jets of air are forced out of the cylin-

der by means of the piston over the upper end of said tube.

In carrying out the objects of the invention, the inner end of the cylinder is provided with a hollow downwardly tapering extension 13 which surrounds the supply pipe 3 and forms a drip cup to collect or catch any of the waste fluid that is not carried off in the form of a spray, said cup being provided with a depending tube 14 which leads into the upper end of the receptacle 1 and returns any of the liquid that is caught by the drip cup. The inner end of the cylinder 1 is also provided with a tubular screw threaded extension 15 which screws upon the upper threaded end of the can or liquid containing receptacle 1.

From the foregoing description, it will be seen that any of the liquid not carried off in the form of a spray and which would otherwise go to waste, will be caught by the drip cup 13 and returned to the can 1 by the return pipe 14.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claim.

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

In a spraying device of the class described, a pump cylinder, a cup-like member extending from one end of the cylinder, a supply tube and a return tube passing through the bottom of the cup-like member, and a threaded extension surrounding the tubes and adapted for attachment to a liquid containing receptacle.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES H. RATH.

Witnesses:

J. O. EBERHARD, Jr.,  
JULIUS MARKEIM.