

## BURETTE--IMPROVED FORM.

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The accompanying drawing gives the improved form of burette in the vertical position and a section of top in the horizontal.

In volumetric work it frequently happens, even when a large number of burettes is at the disposal of the operator, that solutions must be discharged and new solutions of different character introduced. Ordinarily, to accomplish this, the instrument is emptied of the solution previously contained, washed with distilled water, and, to avoid dilution, a small portion of the volumetric solution to be used is poured in, and the water adhering to the sides washed out several times.

There are, chiefly, two ways in which this is done; the first by closing the top with the thumb and agitating a small portion of the V. S. to be used, emptying and repeating the operation several times; the second without closing the top, bringing the burette to a horizontal position, rotating and balancing the liquid in a manner that it does not escape. The former method is not scientific, nor is it a strictly cleanly way of handling solutions. The latter is clumsy, and, even with the most adept, unsatisfactory.

In placing a bulb similar to that of a thistle-tube on top of the burette, the latter method is easily handled by those even who seldom have occasion to use burettes. When the improved burette, as shown in drawing, is placed in the vertical position, it can be rotated with assurance that the bulb will catch the over-flow, prevent spilling and the running down of the liquid on the outside of the burette. By making the aperture of the bulb somewhat larger than that of the lumen of the burette proper, filling is made easy also, and the necessity for use of a funnel is obviated.

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