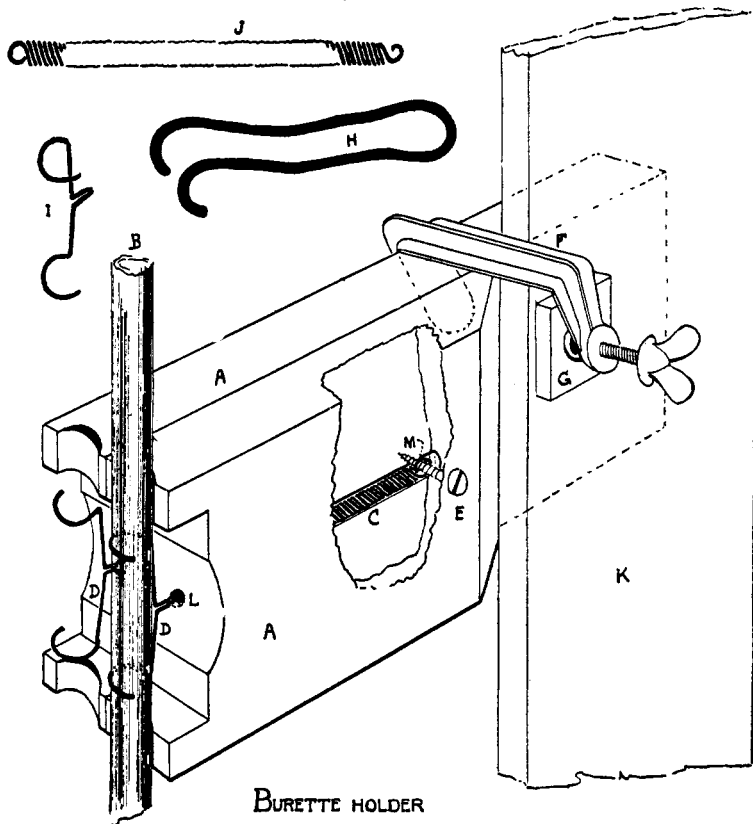


AN IMPROVED BURETTE HOLDER.*

BY A. A. BRENNEMAN.

The burette holder shown in the cut is a modified form of one that I have seen, but of which I do not know the origin. The original features of the present one are the use of a spiral spring much longer than in the original holder, imbedded in a wooden block which can be clamped at will to the upright part of any laboratory shelf, thus dispensing with a stand and leaving the table clear, while not interfering with the use of the shelf, and of the combination of two holders in one, as shown in the cut.



*Read at the regular meeting, December 4, 1891.

The springs C, J, which are 10-12 cm. long, are made of hard brass wire of about 8 mm. diameter, coiled as closely as possible. One end M, terminating in a closed loop is sunk into a deep longitudinal hole L, parallel with the axis of the block. The loop is held firmly by a screw which passes through it from the outside. The spring, when not extended, reaches within 1 c.m. of the opening. The stirrup I, is connected with it by its middle loop and is then held so as to support even a very small tube within its rings by drawing the tube against the jaws of the block.

The grooves are faced with cork, first glued in place and then shaped with a round file. These are afterwards well rubbed with melted paraffine as is also the entire surface of the wooden block, thus affording protection against acid or caustic solutions. The wire portions are lacquered, or better, plated with platinum. The rings of the stirrup are bent to an arc of about 250°. The entire block is 23 cm. long, 10 cm. wide, and 5 cm. thick. The beveled portion is 15 x 10 x 2.5 cm.

The large double hook H, is an indispensable part of the holder. Introduced at the side of the stirrup, opposite the opening of the rings, it is used to draw the stirrup forward for the removal or insertion of a burette.

The readiness with which burettes can be moved up or down, or rotated, with a single movement and with one hand, is a marked advantage of this holder. The superiority of wire over silk or catgut, sometimes used in burette stands, will be apparent, and the clearness of view afforded, as compared with the use of the usual burette clamp, is another advantage.

The holder is held in place against the upright part of the shelf by a common iron clamp F, readily obtained of any hardware dealer. A small block of wood G, 3x3x1 cm., with a hole running partly through it, serves as a socket for the end of the screw to prevent defacing of the shelf to which the holder is attached.