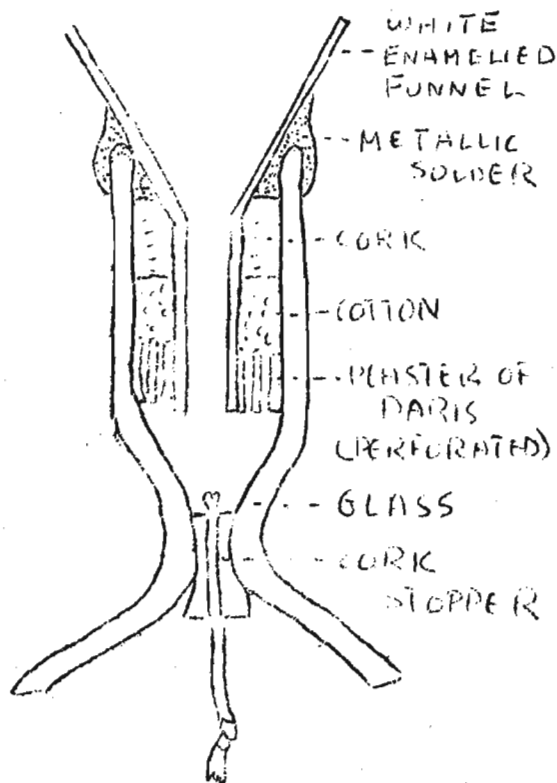


M. Demerec Etherising bottle.

The following drawing represents an actual size cross section of the etherising bottle used in our laboratory. The design is a slight modification of an early Bridge's design. Ether is poured in thru the bottom hole. A few drops suffice for one hour's work. Specifications:
Funnel: White enameled 1/8 quart improved funnel manufactured by the Vollrath Co., Sheboygan, Wis., obtainable in hardware stores or could be ordered thru a hardware store. Top cut off to fit the culture bottle, and bottom cut off to fit the glass vessel. Cost 30-40 cents. Glass vessel: Can be made by any

glass-blower. We order it from Eck & Krebs, 131 West, 24 Street, New York, at 50 cents a piece.

H. J. Muller Etherising bottle. The type which I have found most practical all round (and at the same time the easiest to construct, repair and clean) consists of a glass containing-

vessel (whose shape may be chosen according to the convenience of the operator), into the neck of which is firmly fitted, preferably through the mediation of a hollowed-out cork, a funnel, preferably of metal, with an upper end wide enough to fit against the mouth of the widest-mouthed culture vessel used. To the narrow end of the funnel, below, a large gelatine capsule of the same diameter, and containing numerous fine needle-holes, is glued on. In the space between the bottom of the suspended capsule and the bottom of the containing vessel is packed a mass of dense cotton, (which must not touch the capsule). Flies go in and out through the same opening, without manipulation of any stoppers being necessary and are quickly etherised by the diffusing ether. The ether used need usually be added to the bottle but once a day, as a minimum is lost (an advantage both economically and physiologically). If desired, glass can of course be substituted for the gelatine, but the latter has considerable durability and the ether can be poured in directly through the gelatine sieve. The latter is later wiped quite dry with a paint brush.