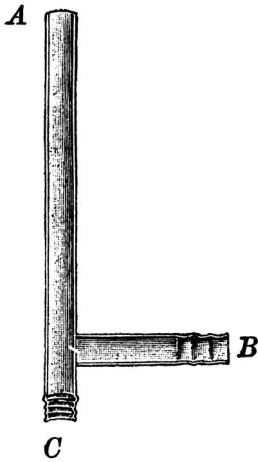


APPARATUS.

A Mortar Cover for Use in Grinding Hygroscopic Substances. R. Scholl. (*Chem. Zeit.*, 1900, xxiv., 15.)—This consists of a rubber cap or plate with a central hole or short flexible sleeve to admit the pestle-stem, and a flange to fit air-tight round the upper edge of the mortar. The flange is made of considerable width, so that the cover is raised somewhat above the top of the mortar, thus leaving more space for the movements of the pestle. The cover is equally useful in grinding hygroscopic materials, or such as are brittle or possess an unpleasant odour.

F. H. L.



A Simple Bunsen Burner. F. Allihn. (*Chem. Zeit.*, 1899, xxiii., 996.)—In this apparatus the usual injector gas-jet attached to the base and the radial air-holes surrounding it are done away with, so as to gain simplicity and cheapness in construction. The burner consists essentially of a plain T-piece, open at all three ends. At the spot where the horizontal (gas inlet) tube joins the vertical, the wall of the latter is drilled centrally with a small hole pointing upwards towards the end where combustion takes place; and this hole being the substitute for the ordinary jet, the bore of the vertical pipe is clear throughout, so that if liquids, etc., are spilt over the burner no choking can ensue. The bottom of the upright is provided with a male thread, which screws into a cast-iron base; and the air thus enters from underneath the stand.

This latter should manifestly be cast with a milled or fluted bearing edge, or on a level table the supply of air might be insufficient.

The burner can be used equally well without the base, being supported by any convenient clamp. The apparatus is patented, and may be obtained from Warmbrunn, Quilitz and Co., Berlin.

F. H. L.