

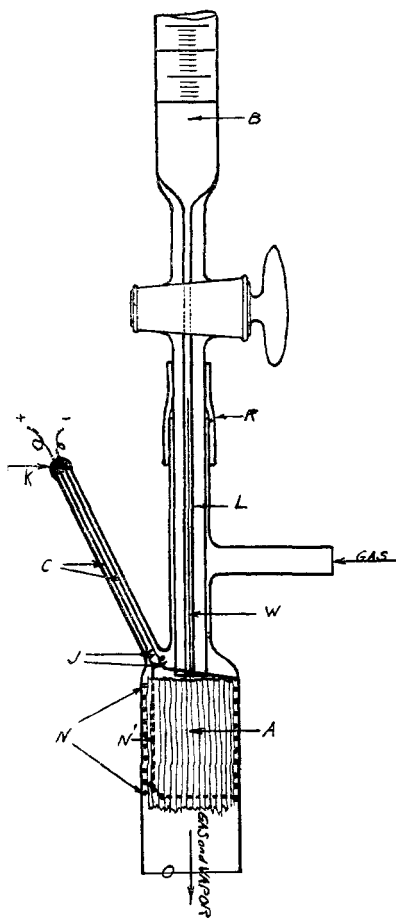
NOTE.

A Device for Introducing a Vapor into a Gas.—The apparatus shown in the drawing has been found useful for introducing a desired quantity of vapor into a stream of gas.

There are two parts to the device. The upper part consists of a buret, B, to which is sealed a glass capillary, L. The lower part is made of glass (Pyrex glass is preferable). This part is joined to the upper part by the rubber connection R. The end of the capillary L touches a roll of asbestos fibers, A. The roll is made of short straight pieces of asbestos thread tied together at the top. The spiral of resistance wire N surrounds the asbestos. The heat from this wire vaporizes the liquid flowing to the fibers from the capillary. The gas, into which the

vapor is to be introduced, enters by the side tube as shown, flows down through the annular space surrounding the capillary, and then passes through the asbestos. The gas leaves the heated asbestos containing the desired amount of vapor.

The capillary L is chosen of a size to feed the liquid at a greater rate than that desired. Any slower rate may be obtained by inserting a wire W (preferably platinum) of the proper diameter and length in the bore of the capillary. The copper leads C and the vertical piece of the resistance wire N' are wound with a light piece of asbestos thread to serve as insulation. The copper leads are fastened to the resistance wire at J by twisting the wires together, and they are sealed through the outlet tube with deKhotinski cement, at K.



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