

The cup *e* is now filled with strong solution of caustic potash, and, the level in *n* being still kept low, the stop-cock *a* is opened full, and *d* very carefully, thus allowing caustic potash to run down through *a* into *m*, where it meets the gas in the most advantageous way for quick absorption. When enough caustic potash has been allowed to enter, *d* is closed, some mercury poured into *e*, and *d* again opened, when the mercury drives all the solution

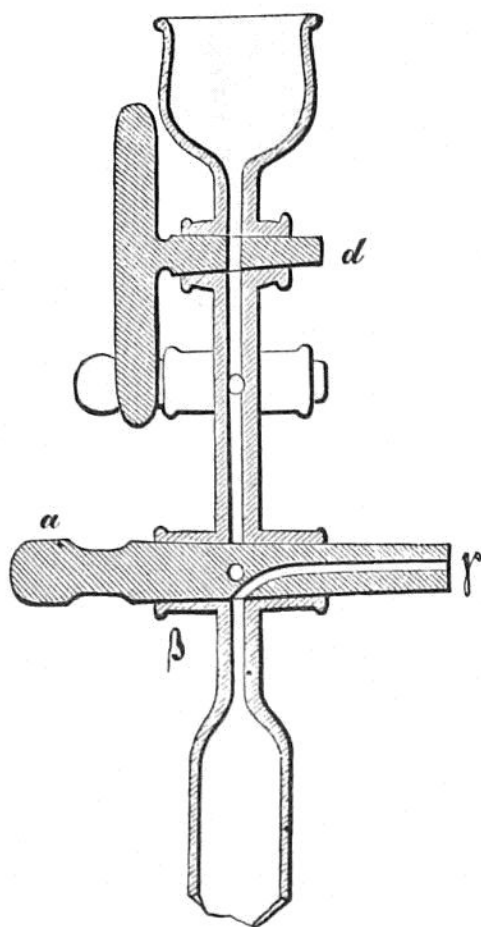


FIG. 6.—Arrangement of the Capillary Portion of the Gas-analysis Apparatus.

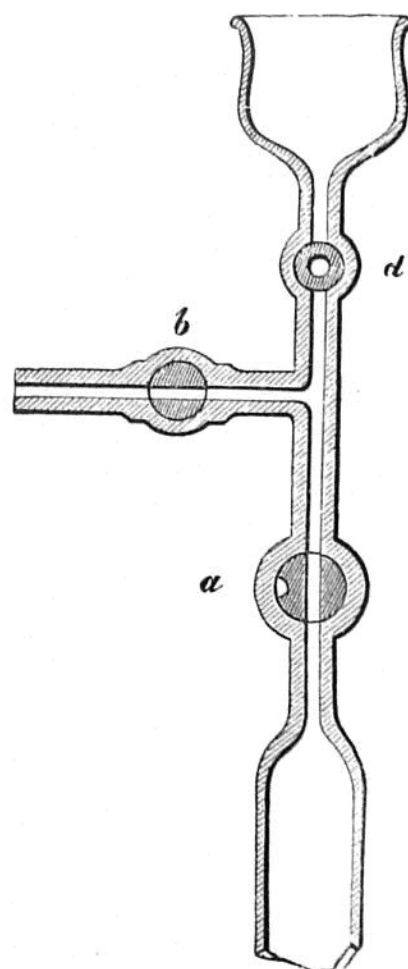


FIG. 7.—Arrangement of the Capillary Portion of the Gas-analysis Apparatus.

out of the capillary tube into *m*, and occupies its place. When the absorption is finished, the level of the mercury in *n* is again raised, and the stop-cocks *b* and *c* opened. The stop-cock *a* is now very carefully opened, the flow of the gas being further regulated by raising or depressing *p*, and the gas allowed to pass over into *q* until the potash solution just touches the lower surface of the stop-cock *a*, which, being open, has the position shown in Fig. 7. The position of *a* is now changed to that