CHAPTER IV.

A SIMPLE METHOD OF GAS ANALYSIS.

Perhaps the simplest and most complete method of grealysis is the one originated by Prof. Hemphill, but the teacher of chemistry in a secondary school very often do not receive sufficient grant from a school board to purchathe most necessary apparatus, and although there are mantimes in his work when he would like to determine the different gases in a mixture which comes under his notice he has not the means at his disposal of satisfying he curiosity. If he wishes to overcome the difficulty, he mu either work with inferior apparatus of his own construction and be satisfied with unsatisfactory results, or he musurchase rather costly appliances such as Prof. Hemphill at his own expense, and this is something very often it is ill able to afford.

This is the only excuse for submitting the followin simple and original method of gas analysis, as th apparatus employed is such that most teachers have a their disposal, or that can be purchased at a small cos

Take two U tubes used for drying gases with calcius chloride. The shape of the tubes is immaterial, but it would be convenient to have one of them somilar to (b) Fig. 2: having the neck between the bulbs carrow so that the gas will not pass through it wher being washed. It is best to have the other tube with a steppock in one arm similar to