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(57) Abstract

Apparatus (24) for determining the actual and proportional amounts of a volatile fluid (20) in a test sample is described. The test sample is stored in a sealed container (31) after being collected and kept in the sealed container through testing. The volatile fluid of interest is evolved from the test sample and a carrier gas transports the volatile fluid past a sensor (41). The sensor determined the relative amount of the volatile fluid of interest in the carrier gas. The flow rate of the carrier gas is precisely known and is predetermined. A microcomputer is utilized to predict with great accuracy the actual proportional amount of the volatile fluid in the test sample.

