The United States of America



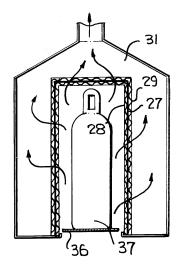
Granted on September 24, 1974 to

Robert C. Nemeth William D. Dugger

Patent No. 3,837,228 Vacuum Instrument Corporation

TRACER GAS-PERMEABLE PROBE FOR LEAK DETECTORS

In a leak detector system which employs a predetermined tracer gas, such as helium, the detector probe is provided with a plastic film which is selectively permeable to the tracer gas in preference to all other atmospheric gases. All detected gases must pass through the film in order to reach the detection element. Because of the selective permeability of the film the probe can assume substantially any size and configuration and can be employed without preparing a contaminant free environment. Moreover, the selectivity of the probe film permits the detection element to be a simple flow monitoring device rather than a mass spectrometer or other gas-distinguishing apparatus.



The Commissioner of Patents and Trademarks has received an application for a patent for a new and useful invention. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law, Therefore, this

United States Patent

grants to the person or persons having title to this patent the right to exclude others from making, using or selling the invention throughout the United States of America for the term of seventeen years from the date of this patent, subject to the payment of maintenance fees as provided by law.

C. Marshall Dann

Commissioner of Patents

