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(54) Title: SYSTEM FOR DETECTING AMINE AND OTHER BASIC MOLECULAR CONTAMINATION IN A GAS

(57) Abstract

The detection system is constructed to examine multiple amines in gas to produce a reading that is stoichiometrically related to the proton bonding characteristic of the multiple amines present in the sampled gas. In one aspect, the detection system includes at least two channels through which gas samples to be examined pass, at least one convertor (6) for converting the multiple amines into NO, and at least one chemiluminescent NO detector (7) for producing signals representative of the NO concentration in air passing therethrough. In another aspect, the detection system includes at least two channels through which gas samples to be examined pass, an amine remover (120), which has a high removal efficency for both strong and weak amines, coupled to one of the channels.

