

Title (en)

INFRARED CHEMICAL VAPOR DETECTOR AND METHOD.

Title (de)

CHEMISCHER INFRAROT DAMPFPHASENDETEKTOR UND VERFAHREN.

Title (fr)

DETECTEUR A INFRAROUGE DE VAPEURS CHIMIQUES ET PROCEDE.

Publication

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Application

EP 93900783 A 19921203

Priority

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Abstract (en)

[origin: WO9311424A1] The invention relates to the remote infrared radiometric detection of chemical vapors (20). Air quality and substance control concerns present a need for more efficient ways of detecting the presence of select chemical vapors (20) in the atmosphere. A method and apparatus for such a detector includes elements for filtering (26, 34) collected infrared energy over a filter bandwidth by bandpass filtering only a fractional bandwidth of the filter bandwidth at any one time and repeatedly scanning the filter bandwidth with the passed fractional bandwidth. Also included are elements for measuring infrared energy (32) passed by the bandpass filtering thereby producing an output signal and for repeatedly nulling (40) the output signal in relation to the repeated scanning of the filter bandwidth. The invention is applicable to air monitoring including pollution control, chemical detection and the detection of any substances which provide telltale chemical vapors (20).

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Citation (search report)

- [XY] US 3409772 A 19681105 - WORMSER ERIC M
- [Y] US 4682291 A 19870721 - REUVENI ASHER [IL]
- [A] WO 9115739 A1 19911017 - COMMW SCIENT IND RES ORG [AU]
- See references of WO 9311424A1

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