

Title (en)

Passive infra-red detector evaluating the spectrum of heat radiation emitted by an object

Title (de)

Passiver Infrarot-Melder, der die von einem Objekt emittierte Wärmestrahlung spektral auswertet

Title (fr)

Détecteur passif à rayonnement infrarouge permettant l'évaluation du spectre émis par un objet

Publication

EP 0724245 B1 20000126 (DE)

Application

EP 96100813 A 19960120

Priority

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Abstract (en)

[origin: EP0724245A1] The sensor (3) breaks down the incident infrared radiation into four spectral channels for which corresp. wavelength-dependent electrical signals (A1-A4) are produced. These signals are filtered (4) and their amplitudes are evaluated (5) for presentation to a logic unit (6). The spectral fundamental patterns of emission characteristics of a variety of infrared sources are stored in the memory (7). The mean voltage amplitude over the entire wavelength range is used as a basis for comparison. If correspondence to the stored patterns lies within allowed limits, the source is identified and an alarm given.

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