

Title (en)

Scattered-light smoke detector

Title (de)

Streulichtrauchmelder

Title (fr)

Detecteur de fumée à lumière diffusée

Publication

EP 1619640 A1 20060125 (EN)

Application

EP 04017433 A 20040723

Priority

EP 04017433 A 20040723

Abstract (en)

A scattered-light smoke detector comprises an optoelectronic arrangement for measuring scatter signals (SB, SF) at, at least, a forward and a backward scatter angle, and evaluation electronics (12) for determining an alarm value in dependence of the ratio of the scatter signals (SB, SF) and comparing it with an alarm threshold. The scatter signals (SB, SF) are preprocessed and the alarm threshold is weighted. The weighting of the alarm threshold occurs in dependence on the relation of the scatter signals (SB, SF). There occurs additionally a weighting of the relation of the scatter signals, whereby the weighting factor is selectable in an application-specific manner.

IPC 8 full level

G08B 17/107 (2006.01); **G08B 29/20** (2006.01); **G08B 29/24** (2006.01)

CPC (source: EP)

G08B 17/107 (2013.01); **G08B 29/24** (2013.01)

Citation (search report)

- [DXY] US 6218950 B1 20010417 - POLITZE HEINER [DE], et al
- [X] US 2004066512 A1 20040408 - POLITZE HEINER [DE], et al
- [Y] US 5293049 A 19940308 - MOREY RICHARD K [US], et al

Cited by

DE102011108389A1; DE102011108390A1; DE102011108390B4; EP3287999A1; EP4332936A1; US10685546B2; WO2013142504A1; WO2018036754A1; WO2013014561A1; WO2013014577A2; US9410890B2

Designated contracting state (EPC)

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