

Title (en)
DIFFUSED RADIATION SMOKE DETECTOR

Publication
EP 0120881 B1 19870527 (DE)

Application
EP 83902980 A 19831005

Priority
CH 594482 A 19821011

Abstract (en)
[origin: WO8401650A1] In a diffused radiation smoke detector (D), the power supply of the evaluation unit (A) and the signal feedback to said unit are carried out exclusively through an optical path owing to radiation guiding elements (L1, L2), whereas all electric components are provided in the evaluation unit (A) at a distance apart from the smoke detector (D). By means of collimation devices (4, 6) provided at the ends (3, 8) of the optical fibers a substantially parallel area of radiation, respectively reception having a small diameter is created, thereby reducing the disturbing radiation level in the smoke detector while enhancing the sensitivity. As the smoke detector (D) has no metal part, it is sensitive neither to temperature nor to corrosion and its utilization is particularly well adapted to an explosive environment and to an environment subjected to electric perturbations.

IPC 1-7
G08B 17/10

IPC 8 full level
G01N 21/53 (2006.01); **G08B 17/10** (2006.01); **G08B 17/107** (2006.01)

CPC (source: EP US)
G08B 17/107 (2013.01 - EP US); **G08B 17/113** (2013.01 - EP US); **G08B 29/18** (2013.01 - EP US)

Cited by
DE102014019773A1; DE102014019172A1

Designated contracting state (EPC)
CH DE FR GB LI SE

DOCDB simple family (publication)
WO 8401650 A1 19840426; DE 3371828 D1 19870702; EP 0120881 A1 19841010; EP 0120881 B1 19870527; JP S59501879 A 19841108; NO 842033 L 19840522; US 4642471 A 19870210

DOCDB simple family (application)
CH 8300111 W 19831005; DE 3371828 T 19831005; EP 83902980 A 19831005; JP 50309083 A 19831005; NO 842033 A 19840522; US 60682884 A 19840416