

Title (en)
Ionization type smoke detector

Title (de)
Isonisationsrauchmelder

Title (fr)
Détecteur de fumée à ionisation

Publication
EP 0820045 A3 19991013 (DE)

Application
EP 97111780 A 19970710

Priority
DE 19629079 A 19960718

Abstract (en)
[origin: EP0820045A2] The device has at least two opposing spatial regions (5,6). At least one electrode (8) is arranged in each region (5,6). The device also has an ionising device supplied with electrical energy (17). The ionising device generates a spatially coherent ion number concentration. A component of this is used to determine the smoke density. A component is used to determine the technical function. Preferably the electrical energy required for ionisation is minimised by regulating the ion flow from the ionisation source (1). The ion number concentration may be varied over time. The ionising device may ionise only half the space. The ionising device may be formed by a single corona shaped space with an ion source in the form of an ionising electrode to which a high voltage is applied.

IPC 1-7
G08B 17/11

IPC 8 full level
G08B 17/113 (2006.01)

CPC (source: EP)
G08B 17/113 (2013.01)

Citation (search report)
• [YDA] DE 4402518 A1 19950803 - PREUSSAG AG MINIMAX [DE]
• [Y] DE 2048817 A1 19710506 - EATON YALE & TOWNE
• [A] FR 2386873 A1 19781103 - ANVAR [FR]
• [A] US 3978397 A 19760831 - BURRY PETER EDWIN, et al

Cited by
CN106846710A; DE19854780C2; EP1005005A3

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 0820045 A2 19980121; EP 0820045 A3 19991013

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