

Title (en)
Smoke detection device and method

Title (de)
Vorrichtung und Verfahren zur Rauchererkennung

Title (fr)
Procédé et dispositif de détection de fumée

Publication
EP 1993083 A3 20090729 (EN)

Application
EP 08156302 A 20080515

Priority
IT TO20070355 A 20070518

Abstract (en)
[origin: EP1993083A2] The invention relates to a smoke detection device which comprises a detection chamber comprising a base, a ceiling and a side wall that links the base to the ceiling. The side wall of the chamber allows smoke to enter the chamber while blocking light. The smoke detection device also comprises an emitter device which transmits an electromagnetic radiation within the chamber, and a detector device which receives it. A control unit connected to the detector device and to the emitter device determines the presence of smoke and generates an alarm signal if the quantity of radiation received by the detector exceeds a preset value. The emitter and detector devices are crossed by a median plane extending between the base and the ceiling of the chamber. In addition, a smoke detection method is also described.

IPC 8 full level
G08B 17/107 (2006.01)

CPC (source: EP)
G08B 17/107 (2013.01); **G08B 17/113** (2013.01); **G08B 29/185** (2013.01)

Citation (search report)

- [XYI] GB 2397122 A 20040714 - APPLEBY DAVID [GB], et al
- [X] GB 2342987 A 20000426 - APPLEBY DAVID [GB], et al
- [X] GB 2327752 A 19990203 - RAFIKI PROTECTION LIMITED [GB]
- [XY] US 4596465 A 19860624 - NAGASHIMA TETSUYA [JP]
- [X] US RE32105 E 19860401
- [X] GB 1188178 A 19700415 - PYRENE CO LTD
- [X] EP 0079011 A1 19830518 - CERBERUS AG [CH]

Cited by
CN106441395A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 1993083 A2 20081119; EP 1993083 A3 20090729; IT TO20070355 A1 20081119

DOCDB simple family (application)
EP 08156302 A 20080515; IT TO20070355 A 20070518