

Title (en)  
Smoke detector

Title (de)  
Rauchmelder

Title (fr)  
Détecteur de fumée

Publication  
**EP 0821331 B1 20021030 (DE)**

Application  
**EP 96111752 A 19960722**

Priority  
EP 96111752 A 19960722

Abstract (en)  
[origin: EP0821331A1] The smoke detector has a fixing socket in which a detector insert with an optical module is fitted. The optical module has a light source (6) and a photodetector (7) contained within a measuring chamber having a base (11). The module further has a labyrinth system provided by plates (9) which project inwards from the periphery of the measuring chamber. All the critical components of the optical module have smooth surfaces, so that the non-absorbed light is reflected in a defined direction. The optical module components may be provided by plastics injection moulding.

IPC 1-7  
**G08B 17/107**

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

CPC (source: EP KR)  
**G08B 17/107** (2013.01 - EP KR); **G08B 17/113** (2013.01 - EP)

Cited by  
US11322006B2; DE202010006632U1

Designated contracting state (EPC)  
AT BE CH DE ES FI FR GB IT LI NL SE

DOCDB simple family (publication)  
**EP 0821331 A1 19980128; EP 0821331 B1 20021030**; AT E227041 T1 20021115; AU 3332897 A 19980210; AU 725326 B2 20001012; CN 1198238 A 19981104; DE 59609838 D1 20021205; ES 2185728 T3 20030501; KR 100467129 B1 20050503; KR 20000064239 A 20001106; PL 184227 B1 20020930; PL 325922 A1 19980817; RU 2189639 C2 20020920; UA 52618 C2 20030115; WO 9803947 A1 19980129; ZA 975812 B 19980130

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**EP 96111752 A 19960722**; AT 96111752 T 19960722; AU 3332897 A 19970715; CH 9700270 W 19970715; CN 97190938 A 19970715; DE 59609838 T 19960722; ES 96111752 T 19960722; KR 19980701679 A 19980306; PL 32592297 A 19970715; RU 98107635 A 19970715; UA 98031426 A 19970715; ZA 975812 A 19970603