Title (en)
Fire detector

Title (de)
Brandmelder

Title (fr)
Détecteur d'incendie

Publication
EP 1103937 B1 20050511 (DE)

Application
EP 99122975 A 19991119

Priority
EP 99122975 A 19991119

Abstract (en)
[origin: EP1103937A1] The fire alarm (1) comprises a light source (7), measuring chamber (9) and a light receiver (8), all housed within an optical module (5). A temperature sensor (13) and the light receiver (8) are both connected to an evaluation electronic module (6). A sensor (12) for combustion gas, e.g. CO, is additionally provided. The electronic module (6) comprises a fuzzy logic controller, which compares the output signals of individual sensors (5,12,13) and determines the type of fire. For each type of fire a different application specific algorithm is selected. The fuzzy logic associates smoke concentration with combustion gas concentration and with a parameter formed from the gradients of temperature and of smoke gas.

IPC 1-7
G08B 29/18; G08B 17/107

IPC 8 full level
G08B 17/00 (2006.01); **G08B 17/10** (2006.01); **G08B 17/06** (2006.01); **G08B 17/107** (2006.01); **G08B 17/117** (2006.01); **G08B 17/12** (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP KR US)
G08B 17/00 (2013.01 - KR); **G08B 17/107** (2013.01 - EP US); **G08B 29/186** (2013.01 - EP US); G08B 17/113 (2013.01 - EP US)

Cited by
EP1492070A3; RU193876U1; CN103077578A; US6958689B2; EP3264381A4; EP2091029A1; WO2009101187A1; US7333129B2; US10234388B2

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DOCDB simple family (publication)
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