

Title (en)  
Method for fire detection

Title (de)  
Verfahren zur Brandmeldung

Title (fr)  
Procédé pour signaler un incendie

Publication  
**EP 0940789 B1 20021023 (DE)**

Application  
**EP 99103015 A 19990215**

Priority  
DE 19809763 A 19980306

Abstract (en)  
[origin: EP0940789A2] The fire alarm method involves transmission of ultrasound signals from one transmitter and microwave- or optical- signals, or a combination of all three different wave-types from an additional transmitter. Doppler signals reflected from objects are received by receivers assigned to the transmitters, and the received signals are evaluated separately and in combination, so that a varied reception signal is detected for one type of wave, in the case that a reception signal for one or more other types of wave shows no movement, smoke, particles or variation in the gas composition in the detection zone.

IPC 1-7  
**G08B 17/10**; **G08B 17/12**; **G08B 29/04**; **G08B 19/00**; **G08B 13/16**; **G08B 13/184**

IPC 8 full level  
**G08B 13/16** (2006.01); **G08B 13/184** (2006.01); **G08B 17/10** (2006.01); **G08B 17/12** (2006.01); **G08B 19/00** (2006.01); **G08B 29/04** (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP)  
**G08B 17/10** (2013.01); **G08B 29/183** (2013.01); **G08B 29/186** (2013.01)

Cited by  
JP2017134611A; US11132884B2; US7356438B2; WO2020251733A1; EP1687787B1; EP1548416B1

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

DOCDB simple family (publication)  
**EP 0940789 A2 19990908**; **EP 0940789 A3 20000816**; **EP 0940789 B1 20021023**; AT E226747 T1 20021115; DE 19809763 A1 19991202; DE 59903134 D1 20021128; ES 2186261 T3 20030501

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