

Title (en)
Method and sensor for fire detection

Title (de)
Verfahren und Sensor zur Brandmeldung

Title (fr)
Procédé et capteur pour signaler un incendie

Publication
EP 0940789 A2 19990908 (DE)

Application
EP 99103015 A 19990215

Priority
DE 19809763 A 19980306

Abstract (en)
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.

Abstract (de)
Ein kombinierter Sensor zur Brandmeldung beinhaltet Sende/Empfangs-Einheiten für Ultraschall und entweder Mikrowelle oder Licht oder für sämtliche Wellenarten. Das Verfahren zur Auswertung verarbeitet die reflektierten und empfangenen Signale so, daß für den Fall eines veränderten Ultraschall-Empfangssignales eine Branddetektion vorliegt, wenn nicht gleichzeitig bei einer weiteren Wellenart eine Bewegung registriert wird.
<IMAGE>

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G08B 17/10

IPC 8 full level
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CPC (source: EP)
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Cited by
JP2017134611A; US11132884B2; US7356438B2; WO2020251733A1; EP1687787B1; EP1548416B1

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