

Title (en)

An improved fire detection system.

Title (de)

Ein verbessertes Feuerdetektionssystem.

Title (fr)

Système perfectionné de détection du feu.

Publication

**EP 0011461 A1 19800528 (EN)**

Application

**EP 79302527 A 19791112**

Priority

GB 7843944 A 19781110

Abstract (en)

A monitoring system for detecting fire or other elevated temperature conditions in a plurality of discrete zones Z1, Z2, Z3, etc. comprises a loop box 1 which has two pairs of terminals A and B to each of which is connected one end of a pair of conductors of a linear temperature detector cable passing through each of the discrete zones. Adjacent zones are sectionalised by zone boxes 9, each of which comprises a pair of balanced resistors, one resistor connected in series in one conductor of the loop and the other resistor being connected in series in the other conductor. The loop box 1 has a constant current generator 2 which can be connected via an electronic switch 3 to either the A or B end of the loop 4; an electronic switch 5 which connects one of two fixed resistors 6 directly across the two conductors of the loop at the opposite end to that to which the generator 2 is connected; and an electronic switch 7 which connects a voltage measuring circuit 8 onto the terminals of the loop to which the generator 2 is connected. Electronic switches 3, 5 and 7 are operated by control circuits 10 whose output signals are fed to a display device 11, which shows if the system is operating normally, identifies the nature of any abnormalities and indicates any discrete zone in which there is a short circuit caused by a fire, and to external alarms.

IPC 1-7

**G08B 17/06**; **G08B 25/00**

IPC 8 full level

**G08B 17/06** (2006.01); **G08B 25/01** (2006.01); **G08B 25/04** (2006.01)

CPC (source: EP)

**G08B 17/06** (2013.01); **G08B 25/018** (2013.01); **G08B 25/045** (2013.01)

Citation (search report)

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- FR 2205664 A1 19740531 - EURATOM [LU]
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