

Title (en)
FIRE ALARM SYSTEM

Publication
EP 0116647 B1 19900328 (DE)

Application
EP 83901736 A 19830607

Priority
JP 9694882 A 19820608

Abstract (en)
[origin: WO8304450A1] This facility warns of abnormalities such as fire, theft, or problems when using isolated dimmer smoke sensors (A, B, C, D) detecting various phenomena due to smoke from luminous flux (L, La, Lb, Lc, Ld) applied from light-emitting units (2, 2a, 2b, 2c, 2d) disposed some distance from corresponding photodetection units (3, 3a, 3b, 3c, 3d). The purpose is to reduce the signal lines transmitting signals in a facility of this type by employing the luminous flux as a carrier for transmitting the signal warning of any abnormality, so that it becomes difficult for electric noise to influence the signal transmission lines. For that purpose, each light-emitting unit has a signal input circuit such as an encoder (23) for receiving a transmission signal, series/parallel converter (24) etc., and a modulator (25) for modulating the photocurrent according to an output from the input circuit. Each photodetection unit has a demodulator (35) for detecting the modulated signal from a photodetection output from a photoelectric element (31), and a signal output circuit such as a parallel/series converter (36) for returning the output of the demodulator to the form of the transmission signal and outputting it, and a decoder (37) etc. With the above structure, when a plurality of smoke sensors are connected in a cascade (Fig. 1), any abnormal signal is transmitted via the luminous fluxes of each of the sensors to a radio receiver (4).

IPC 1-7
G08B 17/06; **G08B 17/10**; **G08B 23/00**

IPC 8 full level
G08B 17/00 (2006.01); **G08B 13/183** (2006.01); **G08B 17/10** (2006.01); **G08B 17/103** (2006.01)

CPC (source: EP US)
G08B 13/183 (2013.01 - US); **G08B 17/103** (2013.01 - EP US)

Cited by
US4903894A; WO8805517A1

Designated contracting state (EPC)
FR

DOCDB simple family (publication)
CH 664636 A5 19880315; DE 3390038 C2 19911114; DE 3390038 T1 19840823; EP 0116647 A1 19840829; EP 0116647 A4 19870716; EP 0116647 B1 19900328; JP H0136159 B2 19890728; JP S58214995 A 19831214; US 4594581 A 19860610; WO 8304450 A1 19831222

DOCDB simple family (application)
CH 56184 A 19830607; DE 3390038 T 19830607; EP 83901736 A 19830607; JP 8300188 W 19830607; JP 9694882 A 19820608; US 57242584 A 19840110