

Title (en)  
INFLAMMABLE GAS DETECTOR DEVICE

Publication  
**EP 0065497 B1 19850911 (FR)**

Application  
**EP 82830111 A 19820426**

Priority  
IT 939981 A 19810505

Abstract (en)  
[origin: EP0065497A1] The detector (R) is formed of a spiral of thin platinum alloy wire enclosed in a Davy cage of fine metallic grids to prevent flame propagation in the event of ignition within. It is connected in a bridge circuit with potentiometer (R3) and two fixed resistor (R2, R4), supplied with rectified AC from a series transistor (T1) and Zener diode stabiliser (Z1). The unbalance of the bridge is monitored by a differential amplifier (Ad) which controls a low-frequency tone generator (IC2). When the threshold of unbalance is exceeded due to a concn. of gas within the detector, an alarm is given by an electroacoustic device (TA). A standby battery and delay circuit may be provided to ensure operation following failure of the AC supply or rectifier.

IPC 1-7  
**G08B 17/10**

IPC 8 full level  
**G01N 27/16** (2006.01); **G01N 27/04** (2006.01); **G08B 17/10** (2006.01); **G08B 17/117** (2006.01); **G08B 21/00** (2006.01)

CPC (source: EP)  
**G08B 17/117** (2013.01)

Cited by  
EP0126036B1

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

DOCDB simple family (publication)  
**EP 0065497 A1 19821124; EP 0065497 B1 19850911**; AR 228973 A1 19830513; AT E15562 T1 19850915; AU 1843388 A 19880922; AU 8322682 A 19821111; BR 8202411 A 19830412; CA 1237505 A 19880531; DE 3266133 D1 19851017; DK 159167 B 19900910; DK 159167 C 19910211; DK 185582 A 19821106; ES 511787 A0 19830216; ES 8304343 A1 19830216; FI 75430 B 19880229; FI 75430 C 19880609; FI 821569 A0 19820505; FI 821569 L 19821106; GR 75842 B 19840802; IE 52445 B1 19871028; IE 821010 L 19821105; IL 65497 A0 19820730; IT 1167878 B 19870520; IT 8109399 A0 19810505; JP H0374352 U 19910725; JP H0424439 Y2 19920609; JP S57186160 A 19821116; MX 151271 A 19841029; NO 153236 B 19851028; NO 153236 C 19860205; NO 821461 L 19821108; NZ 200307 A 19850531; PT 74843 A 19820601; PT 74843 B 19831202; YU 44342 B 19900630; YU 94582 A 19850320; ZA 823039 B 19830330

DOCDB simple family (application)  
**EP 82830111 A 19820426**; AR 28911982 A 19820416; AT 82830111 T 19820426; AU 1843388 A 19880627; AU 8322682 A 19820503; BR 8202411 A 19820427; CA 402237 A 19820504; DE 3266133 T 19820426; DK 185582 A 19820426; ES 511787 A 19820428; FI 821569 A 19820505; GR 820168058 A 19820504; IE 101082 A 19820429; IL 6549782 A 19820413; IT 939981 A 19810505; JP 10907690 U 19901019; JP 7057482 A 19820428; MX 19255382 A 19820503; NO 821461 A 19820503; NZ 20030782 A 19820415; PT 7484382 A 19820504; YU 94582 A 19820504; ZA 823039 A 19820504