

Title (en)  
**WARNING DEVICE**

Publication  
**EP 0141099 B1 19901219 (DE)**

Application  
**EP 84109896 A 19840820**

Priority  
DE 3333135 A 19830914

Abstract (en)  
[origin: US4600977A] The surveillance signal apparatus is preferably provided a signal lamp, as an illuminated switch or as an illuminated key. It comprises a casing with electrical and electronic connections and with an apparatus heat disengageably disposed at the casing. The apparatus head comprises a signal part provided with electric voltage and preferably an illuminating element. A voltage limiter and a current limiter are disposed in an explosion-proof and pressure tight encapsulated space of the casing and they are electrically predisposed to the signal part in the apparatus head via a feed part. The apparatus head with the signal part and the feed part are formed by the output of the voltage limiter and by the output of the current limiter as an explosion protection self safety unit.

IPC 1-7  
**G08B 5/36**

IPC 8 full level  
**G08B 21/00** (2006.01); **E21F 9/00** (2006.01); **G08B 5/00** (2006.01); **G08B 5/36** (2006.01)

CPC (source: EP US)  
**E21F 9/00** (2013.01 - EP US); **F21V 25/12** (2013.01 - EP US); **G08B 5/36** (2013.01 - EP US); **F21V 31/04** (2013.01 - EP US); **F21W 2111/00** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**EP 0141099 A2 19850515; EP 0141099 A3 19870812; EP 0141099 B1 19901219**; AT E59244 T1 19910115; DE 3333135 A1 19850328; DE 3333135 C2 19890608; DE 3483773 D1 19910131; JP H0410674 B2 19920226; JP S6095698 A 19850529; US 4600977 A 19860715

DOCDB simple family (application)  
**EP 84109896 A 19840820**; AT 84109896 T 19840820; DE 3333135 A 19830914; DE 3483773 T 19840820; JP 19189984 A 19840914; US 65038484 A 19840913