Title (en)

Device for remote monitoring of Led lamps

Title (de)

Anordnung zur Fernüberwachung von Led Leuchten

Title (fr)

Dispositif de surveillanceà distance de lampes à Leds

Publication

EP 1147687 A1 20011024 (EN)

Application

EP 00979299 A 20001117

Priority

- CA 0001380 W 20001117
- CA 2290203 A 19991119
- US 54324000 A 20000405

Abstract (en)

[origin: WO0139553A1] LED lamp circuitry that emulates an incandescent lamp's behaviour upon remote verification of the LED lamp. The invention presents a fuse blow-out circuit and a cold filament detection circuit permitting the use of LED lamps in applications, such as railway signal light applications, where there is a need for remote monitoring of the lamps, while keeping the advantageous features of lower power consumption and longer life. The invention also provides a control circuit for enabling/disabling the power supply to LED lamps in relation to the level of the line voltage. The advantage of this embodiment is to avoid unwanted functioning of the LED lamp caused by interference from surrounding electrical cables.

IPC 1-7

H05B 33/08; G08G 1/097

IPC 8 full level

B61L 5/18 (2006.01); **H05B 45/50** (2022.01)

CPC (source: EP US)

B61L 5/1881 (2013.01 - EP US); **H05B 45/3725** (2020.01 - US); **H05B 45/50** (2020.01 - EP US); B61L 2207/02 (2013.01 - EP); H05B 45/3725 (2020.01 - EP)

Citation (search report)

See references of WO 0139553A1

Cited by

CN106304512A

Designated contracting state (EPC)

DE FR GB NL SE

DOCDB simple family (publication)

WO 0139553 A1 20010531; AU 1684601 A 20010604; DE 60017709 D1 20050303; DE 60017709 T2 20060406; DE 60043160 D1 20091126; EP 1147687 A1 20011024; EP 1147687 B1 20050126; EP 1274285 A1 20030108; EP 1280383 A1 20030129; EP 1280383 B1 20091014; EP 1280383 B9 20100519

DOCDB simple family (application)

CA 0001380 W 20001117; AU 1684601 A 20001117; DE 60017709 T 20001117; DE 60043160 T 20001117; EP 00979299 A 20001117; EP 02022506 A 20001117; EP 02022507 A 20001117