Title (en)

Failure detection circuit for multifilament lamps in signalling devices.

Title (de)

Schaltung zur Funktionsüberwachung von Doppelfadenlampen in Lichtsignalanlagen.

Title (fr)

Circuit de surveillance du fonctionnement de lampes à double filament dans des installations de signalisation lumineuse.

Publication

EP 0432623 B1 19940615 (DE)

Application

EP 90123329 A 19901205

Priority

DE 3941327 A 19891214

Abstract (en)

[origin: EP0432623A1] The circuit is designed such that it assumes a first switching state when a monitored signalling lamp (L) is operating correctly, and a second switching state in the event of a fault. A fault is regarded as the interruption of the supply circuit passing through the main filament (HF) when the signalling lamp is switched on and, when the main filament is intact, lack of readiness of the standby filament (NF) of this signalling lamp to switch on. An alarm (M), which is connected in series with the standby filament of the signalling lamp in a high-resistance manner, is used to emit a monitoring alarm. This alarm is short-circuited by the switching means (JH/1) of an indicator (JH) connected in series with the main filament, when the main filament circuit is broken, and is also deactivated when the standby filament circuit is broken. The circuit is particularly suitable for functional monitoring of signalling lamps in railway signalling lights. <IMAGE>

IPC 1-7

H05B 39/10; B61L 5/18

IPC 8 full level

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CPC (source: EP)

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