

Title (en)

Feeding and failure detecting interface for a led optic signaller, particularly for interfacing to railway feeding networks

Title (de)

Schnittstelle zum Betreiben und Überwachen von Led-Anzeigen, insbesondere zum Anschluss an Eisenbahnnetze

Title (fr)

Interface pour alimenter et superviser un dispositif de signalisation à leds, particulièrement adapté à être connecté à un réseau ferroviaire

Publication

EP 1641325 A3 20070606 (EN)

Application

EP 05425659 A 20050921

Priority

IT RM20040448 A 20040922

Abstract (en)

[origin: EP1641325A2] The invention relates to a feeding and failure detecting interface for a LED optic signaller, particularly for interfacing to railway feeding networks, said optic signaller providing a plurality of LEDs (3) divided into LED (3) clusters (4), LEDs (3) of each cluster being serially connected each other, characterised in that it comprises for each LED (3) cluster (4) a corresponding current generator (5), serially connected with the relevant cluster, each LED (3) cluster (4) and the relevant generator (5) creating a branch, said branches being connected in parallel each other, in that said interface further comprises tension comparator means (6), an oscillator (7) and switching means (8), said switching means (8) being provided in series with respect to at least one branch, and said oscillator (7) generating a first signal suitable to control said switching means (8), and in that said comparator means compare potential of at least one node of the adjacent branch, so as to generate a second signal, suitable to control switch means (T, T'), said signal being proportional to said first signal, in case all LEDs (3) and the interface components are not in a failure mode, and it is a constant signal suitable to close or to open said switch means (T, T'), when at least one LED (3) or at least a component of said interface is in a failure mode.

IPC 8 full level

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CPC (source: EP US)

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

Citation (search report)

- [A] EP 1006759 A2 20000607 - S E I SISTEMI ENERGETICI INTEG [IT]
- [A] EP 1286571 A2 20030226 - GARUFO GMBH [DE]

Cited by

EP2979953A1; CN110213852A; EP1965609A3; EP3439123A4; US10424896B2; US7265684B2; EP1992542A3; GB2432951A; GB2432951B; WO2010015277A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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