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

(57) 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.

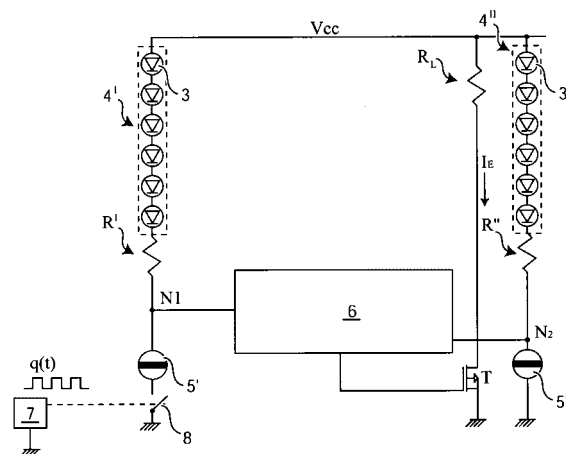


Fig. 3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
			H05B
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 26 April 2007	Examiner BURCHIELLI, M
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 05 42 5659

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The members are as contained in the European Patent Office EDP file on
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26-04-2007

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