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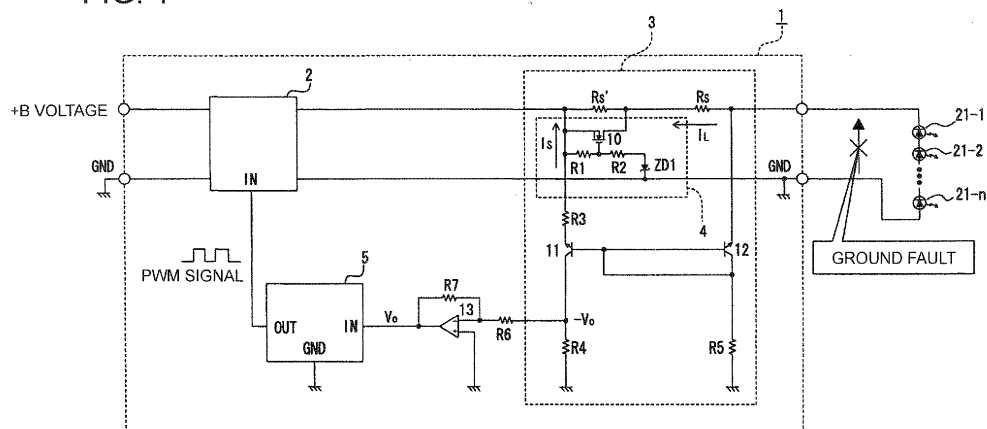
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(54) **Controller for vehicular lamp**

(57) To reduce manufacturing costs by suppressing a ground fault current, a controller for a vehicular lamp includes an inverting converter 2 for supplying power to LEDs 21-1 to 21-n, and a current detection unit 3 that includes a shunt resistor R_s connected serially to the LEDs 21-1 to 21-n and detects an LED driving current flowing through the LEDs 21-1 to 21-n. The current detection unit 3 includes a shunt resistor R_s' connected

serially to the LEDs 21-1 to 21-n via the shunt resistor R_s , and a bypass section 4. The bypass section 4 includes an NMOS transistor 10 connected parallel to the shunt resistor R_s' and a Zener diode ZD1 that causes the NMOS transistor 10 to turn off when a ground fault occurs at a positive polarity output side or a negative polarity output side of the inverting converter 2.

FIG. 1





EUROPEAN SEARCH REPORT

Application Number
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			TECHNICAL FIELDS SEARCHED (IPC)
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 1 August 2014	Examiner Boudet, Joachim
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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