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(54) **DRIVING CIRCUIT FOR A LIGHT-EMITTING DIODE BACKLIGHT AND METHOD FOR DRIVING THE SAME**

(57) In one embodiment a driving circuit for an LED backlight with at least a first and a second segment (S1, S2) has a first terminal (11), a second terminal (12) for sensing a first signal (Sg1), a third terminal (13) for connecting to a first current generating unit (T1, CS1) for providing a first driving current (I1), a first current regulation circuit (PWM1) for controlling the first current generating unit (CS1, T1), a fourth terminal (22) for sensing a second signal (Sg2), a fifth terminal (23) for connecting to a second current generating unit (CS2, T2) for providing a second driving current (I2), a second current regulation circuit (PWM2) for controlling the second current generating unit (CS2, T2), and a control unit (CTL) which is prepared to adjust the supply voltage (Vled) and to adjust the first and/or second driving current (I1, I2) in dependence on the first and the second signal (Sg1, Sg2) by means of the first and/or the second current regulation circuits (PWM1, PWM2)

FIG 1

