



(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 2 (W2 A1)
Corrections, see Abstract

(51) Int Cl.:
H05B 33/08 (2006.01) G09G 3/34 (2006.01)

(48) Corrigendum issued on:
25.04.2018 Bulletin 2018/17

(43) Date of publication:
13.09.2017 Bulletin 2017/37

(21) Application number: **16159637.4**

(22) Date of filing: **10.03.2016**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA MD

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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

