



(11) **EP 2 723 148 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 72

(51) Int Cl.:
H05B 37/02 (2006.01)

(86) International application number:
PCT/JP2012/071478

(48) Corrigendum issued on:
18.06.2014 Bulletin 2014/25

(87) International publication number:
WO 2013/031695 (07.03.2013 Gazette 2013/10)

(43) Date of publication:
23.04.2014 Bulletin 2014/17

(21) Application number: **12818869.5**

(22) Date of filing: **24.08.2012**

(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

• **Citizen Electronics Co., Ltd**
Fujiyoshida-shi, Yamanashi 403-0001 (JP)

(30) Priority: **26.08.2011 JP 2011184243**

(72) Inventor: **AKIYAMA, Takashi**
Yamanashi 403-0001 (JP)

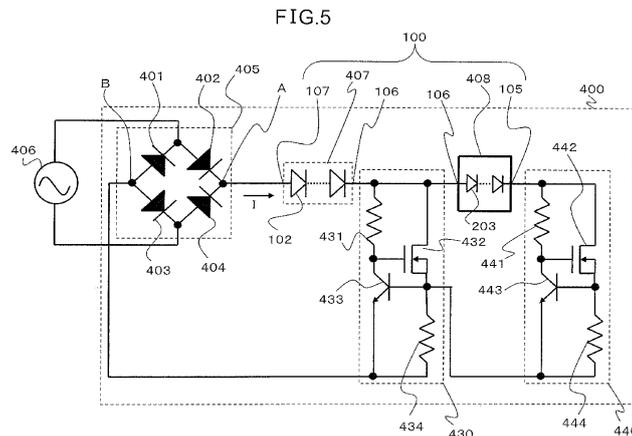
(71) Applicants:
• **CITIZEN HOLDINGS CO., LTD.**
Nishitokyo-shi,
Tokyo 188-8511 (JP)

(74) Representative: **Patentanwälte**
Ruff, Wilhelm, Beier, Dauster & Partner
Kronenstraße 30
70174 Stuttgart (DE)

(54) **LED ILLUMINATION DEVICE**

(57) When a pulsating current is applied to an LED string included in an LED lighting device, and the number of LEDs caused to light up is changed, the LED lighting device is in efficient, since there are LEDs lighting up for a long period of time and LEDs lighting up only for a short period of time. The LED string includes LED string 407 that lights up for a long period of time and LED string 408

that lights up only for a short period of time within a period of the pulsating current. The element size of the LED 102 included in LED string 407 is different from the element size of LED 203 string 408. Thus, the amount of light emission per unit area LED string 407 may be equal to the amount of light emission per unit area LED string 408.



EP 2 723 148 A8