(11) **EP 2 519 080 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **06.11.2013 Bulletin 2013/45**

(51) Int Cl.: **H05B 33/08** (2006.01)

(43) Date of publication A2: 31.10.2012 Bulletin 2012/44

(21) Application number: 12165662.3

(22) Date of filing: 26.04.2012

(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 Designated Extension States:

BA ME

(30) Priority: 29.04.2011 TW 100115247

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(54) Illuminating apparatus and method thereof

(57) An illuminating apparatus (1) adapted to receive an input power which is a pulse DC includes a lighting unit (13), a detecting unit (11) and a controlling unit (15). The lighting unit (13) includes a plurality of lighting sets (131) and a switching unit. The switching unit (133) may be used to cause the lighting sets (131) interconnected in a serial fashion and /or in a parallel manner. The de-

tecting unit (11) detects a state of the input power. The controlling unit (15) couples the detecting unit (11) and the lighting unit (13), and controls the switching unit (133) according to the detecting unit (11) detecting the state of the input power. As such, the turn-on voltages of the lighting unit (13) may adjust at different stages of the input power.

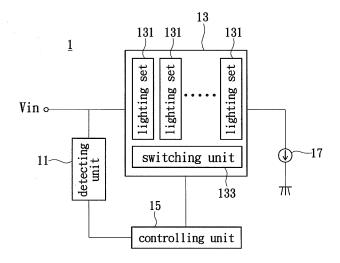


FIG. 2

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EUROPEAN SEARCH REPORT

Application Number EP 12 16 5662

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ategory	Citation of document with inc of relevant passa		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
		; PHILIPS INTELLECTUAL	1,3-9, 11-13,15	INV. H05B33/08
	* the whole documen	ruary 2010 (2010-02-04) t * 	2,10,14	
		[US]; ZHOU DONGSHENG	1,3-9, 11-13,15	
	* page 27, line 15 figures 1, 6 *	ember 2010 (2010-12-09) - page 35, line 18;	2,10,14	
	[TW]) 23 February 20	VANCED CONNECTEK INC 111 (2011-02-23) 12 - page 3, paragraph	1,6,12	
				TECHNICAL FIELDS SEARCHED (IPC)
				H05B
	The present search report has b	een drawn up for all claims		
	Place of search	Date of completion of the search		Examiner
	Munich	2 October 2013	Bur	chielli, M
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth unent of the same category nological background	T : theory or principle E : earlier patent doc after the filing date D : document cited in L : document cited fo	ument, but publis the application	

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 12 16 5662

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-10-2013

W0 2010013172 A1 04-02-2010 CN 102113410 A 29-06-2
EP 2438494 A1 11-04-2 JP 2012529124 A 15-11-2 KR 20130010455 A 28-01-2 US 2010308738 A1 09-12-2 W0 2010141684 A1 09-12-2 EP 2288234 A1 23-02-2011 AU 2010201909 A1 17-02-2 EP 2288234 A1 23-02-201
EP 2288234 A1 23-02-2
KR 2011035368 A 17-02-2 KR 20110013167 A 09-02-2 TW 201105172 A 01-02-2 US 2011025216 A1 03-02-2

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82