



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
26.02.2014 Bulletin 2014/09

(51) Int Cl.:
F21S 9/03 (2006.01) **F21S 6/00** (2006.01)
F21V 3/00 (2006.01) **F21Y 101/02** (2006.01)
F21W 121/00 (2006.01)

(43) Date of publication A2:
19.10.2011 Bulletin 2011/42

(21) Application number: **11163092.7**

(22) Date of filing: **19.04.2011**

(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

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(30) Priority: **19.04.2010 IT TV20100026 U**

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(54) **Wireless, energy-saving electronic candle**

(57) An electronic candle (1) comprising a boxed frame (2) with an elongated shape defining the visible external body of the electronic candle (1); a light source (3); some photovoltaic panels (4) stably fixed on the external side wall (5) of the boxed frame (2), and is adapted to generate a first electric current (I1); a battery (6) generating a second electric current (I2); and an electronic control circuit (7) which provides a current supply (I3) to

the light source (3) and is configured in such a way to switch to a rated power status, wherein it regulates the current supply (I3) in such a way that the latter has a first given value (I3a), when said first current (I1) has a value greater than zero; or alternatively, to a reduced power status, wherein it generates the current supply (I3) in such a way that the latter has a second constant given value (I3b) less than the first value (I3a), when the first current (I1) has a value equal to zero.

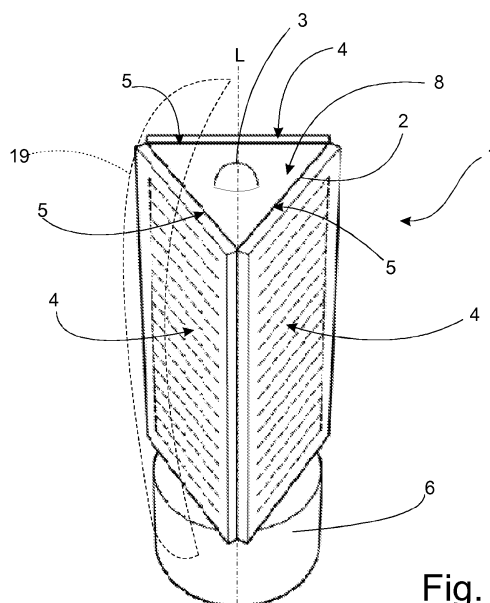


Fig. 1

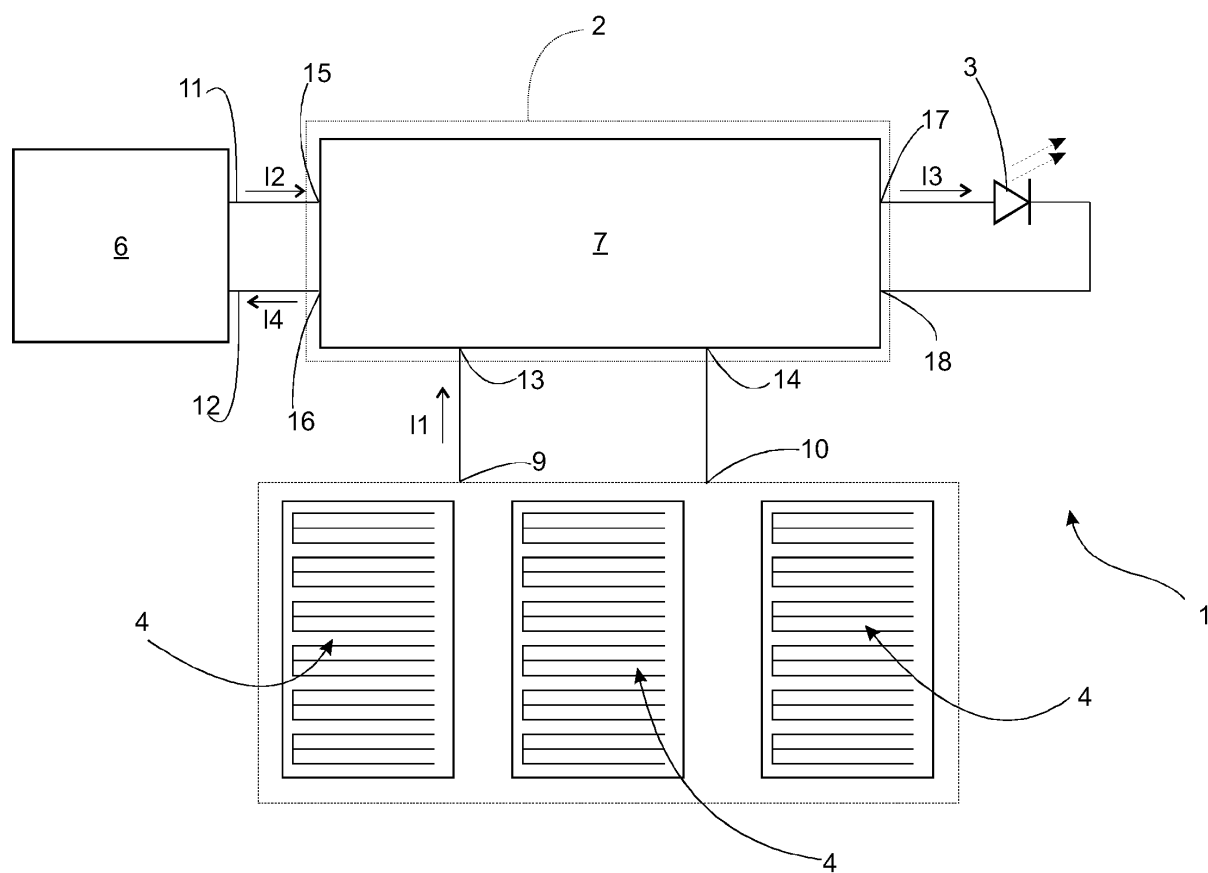


Fig. 3



EUROPEAN SEARCH REPORT

Application Number
EP 11 16 3092

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	US 5 013 972 A (MALKIELI MOSHE [IL] ET AL) 7 May 1991 (1991-05-07)	1-3,7-9	INV. F21S9/03 F21S6/00 F21V3/00 ADD. F21Y101/02 F21W121/00
Y	* column 1, line 47 - column 2, line 18 * * column 2, line 60 - column 3, line 37 * * figures 1, 2 *	4-6	
X	DE 197 08 397 A1 (GRZECHCA MICHAEL [DE]) 10 September 1998 (1998-09-10) * the whole document *	1-3,7,9	
X	US 5 252 893 A (CHACHAM CHAIM [IL] ET AL) 12 October 1993 (1993-10-12) * claim 1; figure 3 *	1-3,8	
X	US 5 633 565 A (FRIEDMAN RONI [IL] ET AL) 27 May 1997 (1997-05-27) * column 2, line 49 - line 65 * * column 3, line 51 - column 4, line 5 * * figure 1 *	1-3	
Y	DE 100 63 364 A1 (BEST ANDRE [DE]) 21 March 2002 (2002-03-21) * figure Page 2 *	4-6	TECHNICAL FIELDS SEARCHED (IPC)
A		7,9	F21S
A	US 2004/252492 A1 (PETERSON DARLENE A [US]) 16 December 2004 (2004-12-16) * figure 1 *	1-9	
A	US 5 564 816 A (ARCADIA ALEXANDER J [US] ET AL) 15 October 1996 (1996-10-15) * figure 1 *	1-9	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 20 January 2014	Examiner Allen, Katie
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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EPO FORM 1503 03.82 (P04G01)

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

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The members are as contained in the European Patent Office EDP file on
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20-01-2014

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5013972	A	07-05-1991	IL 88601 A	01-12-1992
			US 5013972 A	07-05-1991

DE 19708397	A1	10-09-1998	NONE	

US 5252893	A	12-10-1993	IL 98755 A	19-01-1996
			US 5252893 A	12-10-1993
			ZA 9204086 A	06-06-1994

US 5633565	A	27-05-1997	NONE	

DE 10063364	A1	21-03-2002	NONE	

US 2004252492	A1	16-12-2004	NONE	

US 5564816	A	15-10-1996	NONE	

EPO FORM P0459

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