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(54) **CANDLE WITH PICTORIAL EFFECT DURING LIGHTING**

(57) Candle comprising a first body (5) made of wax, a wick (6) immersed in said first wax body with at least one end (7) projecting out of said body, a second body (8) made of wax, which encloses and embeds said first body (5) with the exception of an end portion of said wick projecting out of the first body, the wax of said second body (8) having a given color.

The first wax body (5) includes a pictorial effect-creating device (9) which is susceptible to exhibit its own effect upon melting of the wax of said first (5) and said second (8) bodies, when the wick has been lit.

Preferably, the aforementioned device is in the form of glittering aluminum flakes which become visible in the pool (10) of liquefied wax around the wick (6).

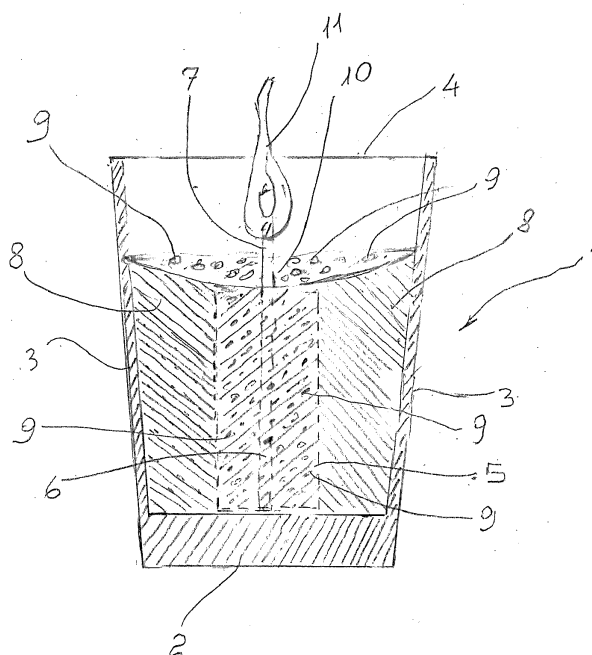


Fig. 2

Description

[0001] The present invention is directed to a candle, particularly but without limitation of the type used for scenting and decorating the places in which it is lit.

[0002] In the prior art, these candles comprise a first body, made of wax, with a wick placed therein, having at least one end projecting out of said body and a second body, also made of wax, enclosing and embedding said first body, with the exception of a portion of the end of said wick, the wax of said second body having a given color.

[0003] Preferably these wax bodies are placed in a vase- or glass-shaped container, with a clear side wall.

[0004] One or both of the wax bodies may incorporate fragrance-emitting substances, adapted to emit fragrances to the surrounding environment, particularly when the wick is lit.

[0005] The object of this invention is to add a device to the aforementioned candles that, as the latter are lit, can create pictorial effects that prior art candles cannot provide, as the color that liquefied wax takes during lighting is the same color as that of the colored wax body that forms the candle.

[0006] Such object is fulfilled by a candle as defined in claim 1 below.

[0007] The invention will be now described in greater detail with reference to certain embodiments thereof, given by way of illustration and without limitation, and shown in the annexed drawings, in which:

- Figure 1 shows a vertical sectional view of a candle of the invention according to a first embodiment, in which the pictorial effect-creating device consists of a plurality of glitters, dispersed in the first wax body of the candle;
- Figure 2 shows a vertical sectional view of the candle of Figure 1, as it is being lit, with a pool of liquefied wax of the first and second bodies and the glitters floating therein;
- Figure 3 shows a vertical sectional view of a candle of the invention according to a second embodiment, in which the pictorial effect-creating device consists of the color of the wax of the first body of the candle differing from that of the wax of the second body;
- Figure 4 shows a vertical sectional view of the candle of Figure 3, with a pool of liquefied wax of the first and second bodies, whose color derives from the composition of the colors of the wax of the first body and the wax of the second body.

[0008] Referring to the accompanying drawings and particularly to Figures 1 and 2, numeral 1 generally designates a container, particularly having a glass shape, with a bottom 2, a preferably clear side wall 3, and an opening 4.

[0009] A first wax body, referenced 5 is placed in the container, with a wick 6 positioned therein.

[0010] The first wax body 5 and the wick 6 are held in a vertical position with the end 7 of the wick facing the opening 4 of the container 1.

5 **[0011]** A second wax body, referenced 8, enclosed and embeds the first body 5 and is visible through the side wall 3 of the container 1.

[0012] According to the invention, the first wax body 5 includes a device that is designed to create a pictorial effect when the candle is lit.

10 **[0013]** This device consists of a plurality of glitter elements, generally referenced 9, which are brilliant enough to be well visible during use of the candle, without releasing toxic substances when in contact with the flame.

15 **[0014]** Preferably, the elements 9 consists of aluminum flakes whose specific weight is comparable to the weight of the melted wax which forms the pool 10, as shown in Figure 2, due the heat of the flame 11 at the top 17 of the wick during use of the candle.

20 **[0015]** While the candle is lit, the glitters 9 are evenly dispersed and float in the pool 10 of melted wax originating from both the first wax body 5 and the second wax body 8 of the candle, thereby creating a pictorial effect and a remarkable aesthetic impact on the viewer.

25 **[0016]** The aluminum flakes 9 have sizes selected to prevent obstruction of the pores of the wick 6 during lighting, which would cause the flame 11 to extinguish.

[0017] Particularly, the flakes 9 have sizes ranging from 50 to 150 μm .

30 **[0018]** In view of enhancing the pictorial effect of the flakes 9, of the melted wax pool 10 should not be too large, because this would cause excessive dispersion of the flakes 9 in the melted wax, and reduce their optical and aesthetic effect.

35 **[0019]** With a container having a circular opening 4 with a diameter ranging from 60 to 65 mm, the melted wax pool 10 that forms as the candle is being lit is found to have the best size for maximum enhancement of the brilliant effect of the aluminum flakes 9.

40 **[0020]** Referring now to Figures 3 and 4, in which structural elements equal to those of the embodiment of Figures 1 and 2 are designated by same numerals, the pictorial effect-creating device that is designed to exhibit its effect when the candle is lit, is found to consist of the color applied to the wax of the first wax body 5, this color differing from that of the wax of the second body 8 of the candle.

45 **[0021]** As the candle is lit, the melted colored wax of the first body 5 flows into the pool 10 and mixes with the wax of the second body 8, thereby generating therein a color differing from that of the second wax body 8, which is still visible from the exterior of the container 1 through the side wall 3.

50 **[0022]** For example, when the candle is lit, a yellow color of the first wax body 5 which is not visible from the exterior of the container 1 and a color of the second wax body 8, visible from the exterior of the container 1, merges with the blue color of the second body in the melted wax pool 10 and creates therein a green color with a surprising

pictorial effect for the viewer of the candle.

[0023] The invention as described above can provide further embodiments, within the inventive scope as claimed below.

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Claims

1. A candle comprising a first body (5) made of wax, a wick (6) immersed in said first wax body with at least one end (7) projecting out of said body, a second body (8) made of wax, which encloses and embeds said first body (5) with the exception of an end portion of said wick projecting out of the first body, the wax of said second body (8) having a given color, **characterized in that** said first body (5) includes a pictorial effect-creating device (8), which is susceptible to exhibit its own effect upon melting of the wax of said first (5) and said second (8) bodies, when the wick has been lit. 10 15 20
2. A candle as claimed in claim 1, **characterized in that** said pictorial effect-creating device in said first body (5) is represented by a plurality of glitter elements (9), each of said elements being made of a material having a lower density than the wax of the first (5) and second (8) body of the candle, when liquefied due to the heat generated by the wick (6) as it is lit at its end (7) and having a size larger than those of the pores of the material that forms the wick (6). 25 30
3. A candle as claimed in claim 2, wherein said glitter elements consist of aluminum flakes (9) with sizes ranging from 50 to 150 μm . 35
4. A candle as claimed in claim 1, **characterized in that** said pictorial effect-creating device (9) in said first first body (5) consists of the color applied to the wax of the first body (5) itself, differing from that of the wax of said second body (8). 40
5. A candle as claimed in any of claims 1 to 4, **characterized in that** it comprises a glass-shaped container (1) with an opening (4) having a size that ranges from 60 to 65 mm, wherein said first wax body (5) with the wick (6) is placed on the bottom (2) in a vertical orientation, with the projecting end (7) of the wick facing the opening (4) of the container and said second body (8) is placed against the side wall (3) of the container. 45 50
6. A candle as claimed in claim 5, wherein at least the side wall (3) of the container (1) is transparent. 55
7. A candle as claimed in any of claims 1 to 6, wherein at least one of said first (5) and second (8) wax bodies includes a fragrance-emitting substance.

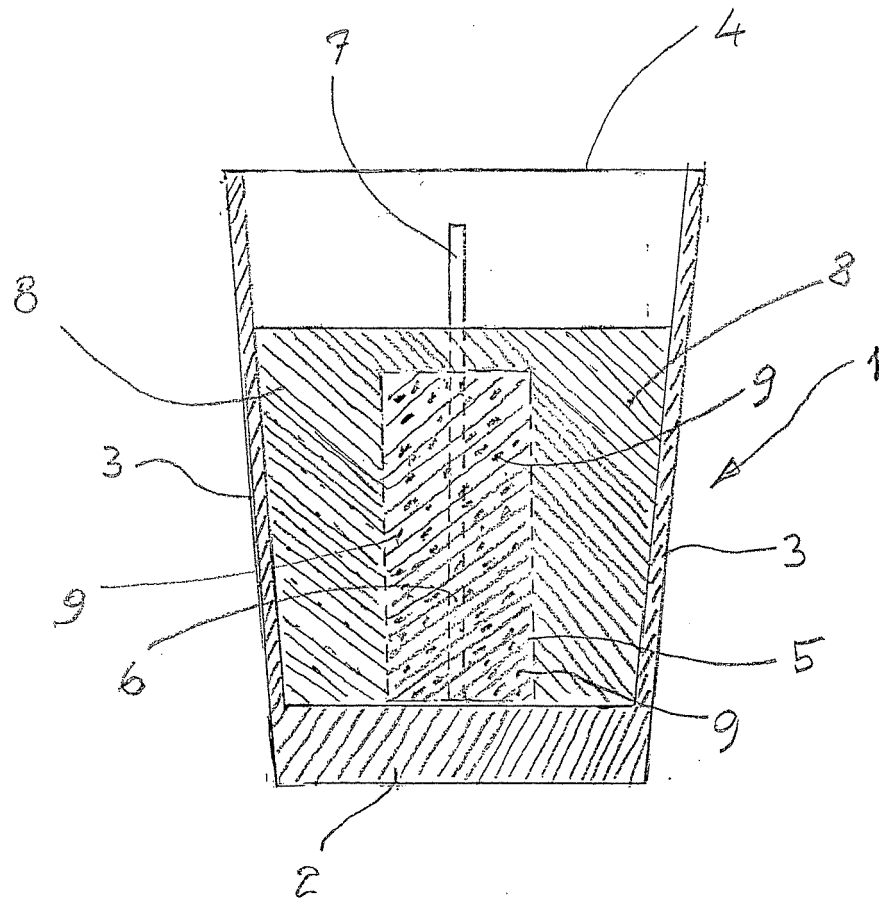


Fig. 1

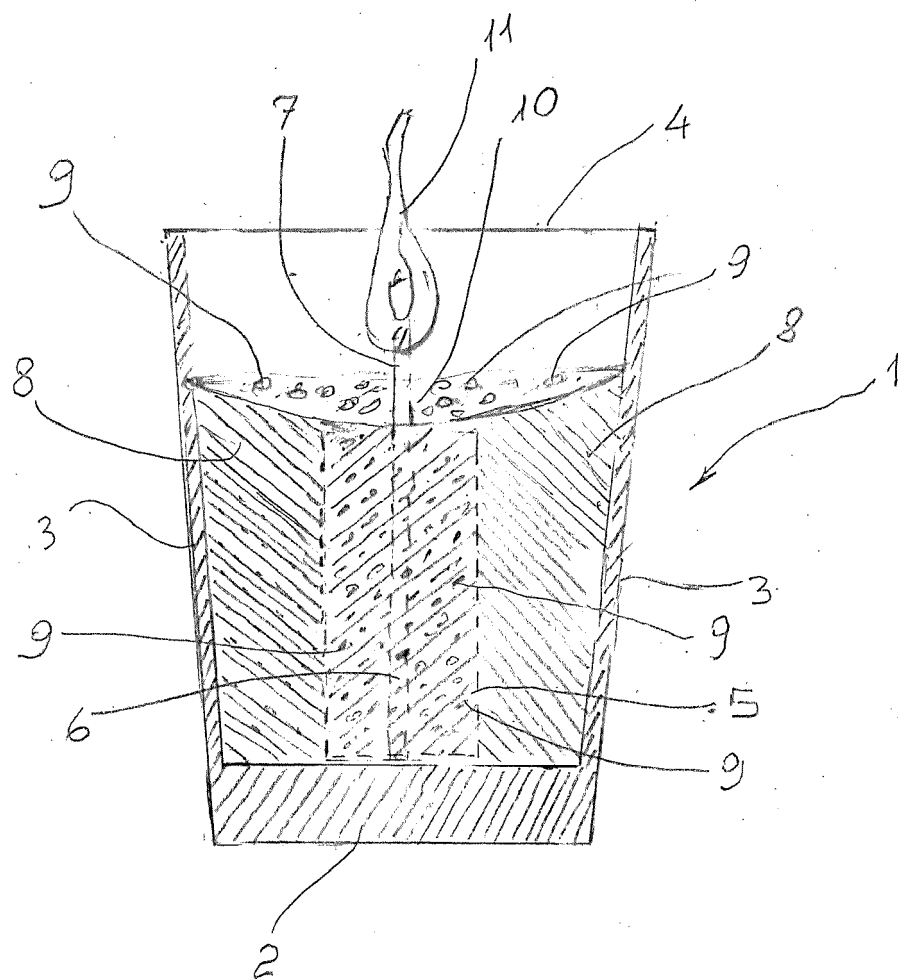


Fig. 2

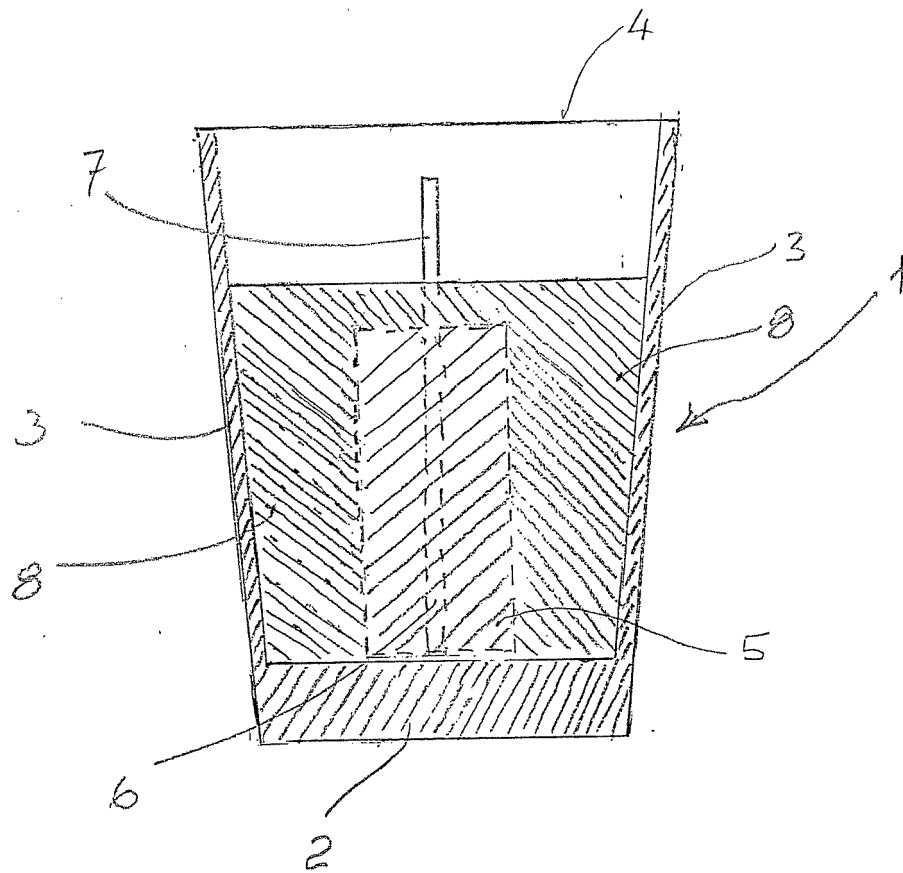


Fig. 3

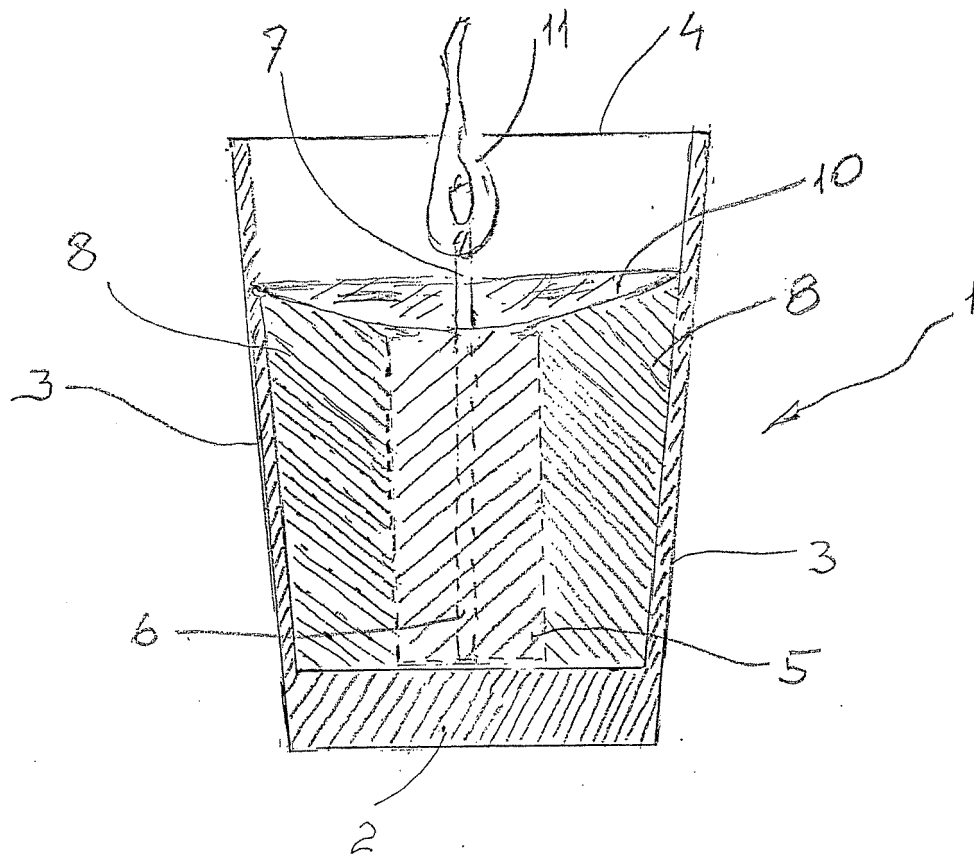


Fig. 4



EUROPEAN SEARCH REPORT

Application Number
EP 16 42 5029

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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 2011/294081 A1 (MCLAREN MARGARET JEAN [US] ET AL) 1 December 2011 (2011-12-01) * paragraphs [0034] - [0043] * * paragraphs [0057], [0058] * * paragraph [0158] * * claims 11,12,15-17 *	1-6	INV. C11C5/00
X	US 2008/081305 A1 (GROZNIK G J; GRUENBACHER D P; HORENZIAK S A) 3 April 2008 (2008-04-03) * figures 1,4 * * paragraph [0025] * * examples 1-3 *	1,4-7	
X	US 2006/110697 A1 (TAFFINDER KAREN [US]) 25 May 2006 (2006-05-25) * claims 13,14; figures 2,3 *	1,4-7	
X	US 2007/169405 A1 (CAGLE JOHN [US]) 26 July 2007 (2007-07-26) * figures 1,2 * * paragraphs [0011], [0014] * * claims 1,5 *	1,4,5,7	TECHNICAL FIELDS SEARCHED (IPC) C11C
X	US 6 171 102 B1 (FREEMAN SCOTT H [US] ET AL) 9 January 2001 (2001-01-09) * column 2, line 44 - column 3, line 25 * * claim 1; figures 1,4,5 *	1,5-7	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 1 August 2016	Examiner Götz, Michael
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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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 16 42 5029

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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01-08-2016

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2011294081 A1	01-12-2011	NONE	
US 2008081305 A1	03-04-2008	CA 2664626 A1 EP 2066970 A2 JP 2010503760 A KR 20090043607 A TW 200831827 A US 2008081305 A1 WO 2008038244 A2	03-04-2008 10-06-2009 04-02-2010 06-05-2009 01-08-2008 03-04-2008 03-04-2008
US 2006110697 A1	25-05-2006	NONE	
US 2007169405 A1	26-07-2007	CA 2636741 A1 EP 1976963 A2 ES 2395078 T3 US 2007169405 A1 WO 2007087338 A2	02-08-2007 08-10-2008 08-02-2013 26-07-2007 02-08-2007
US 6171102 B1	09-01-2001	EP 1150069 A1 US 6171102 B1	31-10-2001 09-01-2001

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