

(12) **UK Patent Application** (19) **GB** (11) **2469505** (13) **A**

(43) Date of A Publication

**20.10.2010**

(21) Application No: **0906574.9**  
(22) Date of Filing: **16.04.2009**

(51) INT CL:  
**A61L 9/03** (2006.01)

(56) Documents Cited:  
**GB 2449703 A** **WO 2008/027537 A**  
**US 20100025490 A**

(71) Applicant(s):  
**Ming Jen Hsiao**  
**2 Lane 200 Bate 2nd Road, Toufen, Miaoli County,**  
**Taiwan**

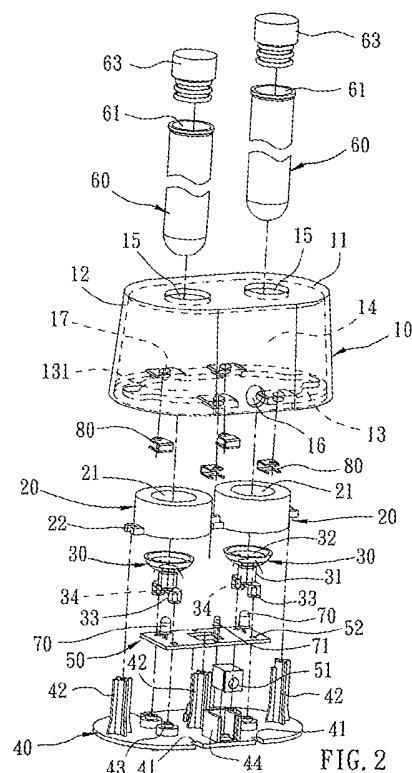
(58) Field of Search:  
INT CL **A61L, F24F**  
Other: **ONLINE: WPI, EPODOC**

(72) Inventor(s):  
**Carsten Jorgensen**

(74) Agent and/or Address for Service:  
**Brookes Batchellor LLP**  
**102-108 Clerkenwell Road, LONDON, EC1M 5SA,**  
**United Kingdom**

(54) Title of the Invention: **Light-emitting smell-altering aroma dispenser**  
Abstract Title: **Light-emitting aroma dispenser**

(57) A light-emitting smell-altering aroma dispenser includes a casing (10) having a bottom opening (131) blocked by a base member (40), heater members (20) supported on trays (30) above a control circuit board (50) in the casing (10), tubular aroma containers (60) inserted through the top wall of the casing (10) into the heater members (20) at the trays (30) and holding a respective aromatic substance for heating by the heater members (20) to release a pleasant smell subject to the control of the control circuit board (50), and light emitting devices (70) controlled by the control circuit board (50) to emit light toward the aroma containers (60) when the aroma substance in the aroma containers (60) is being heated to release a pleasant smell.



**GB 2469505 A**

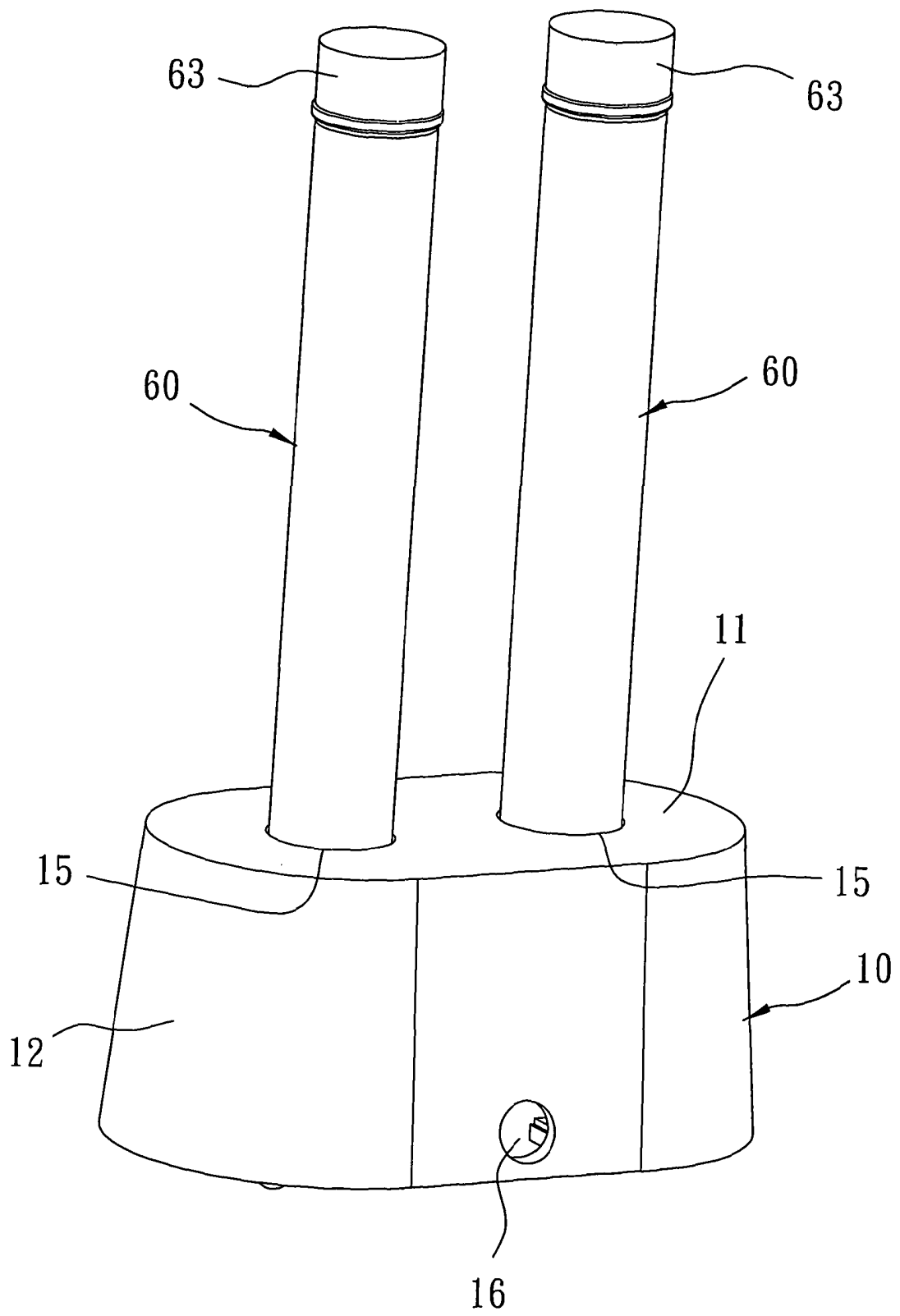


FIG. 1

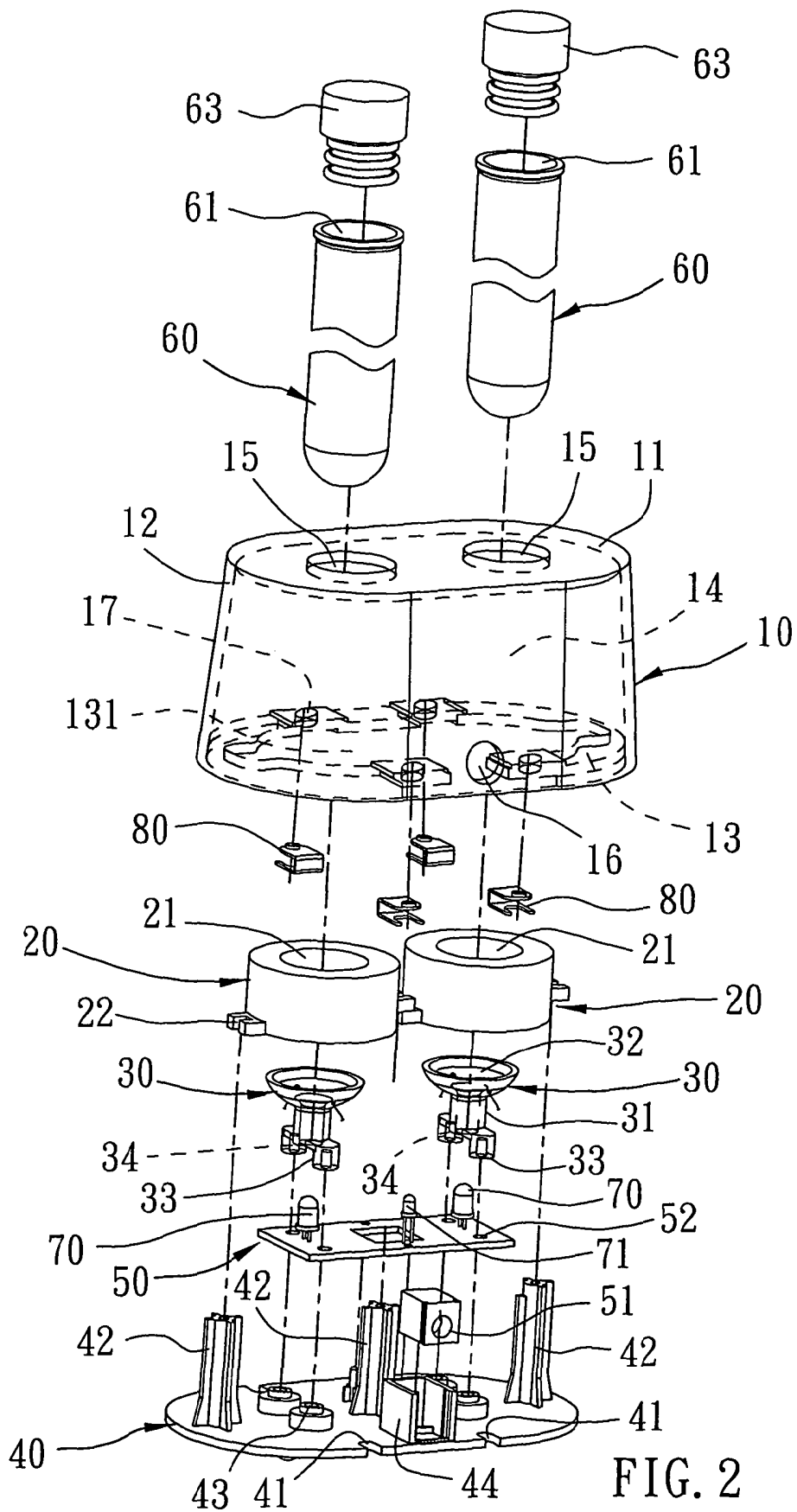


FIG. 2

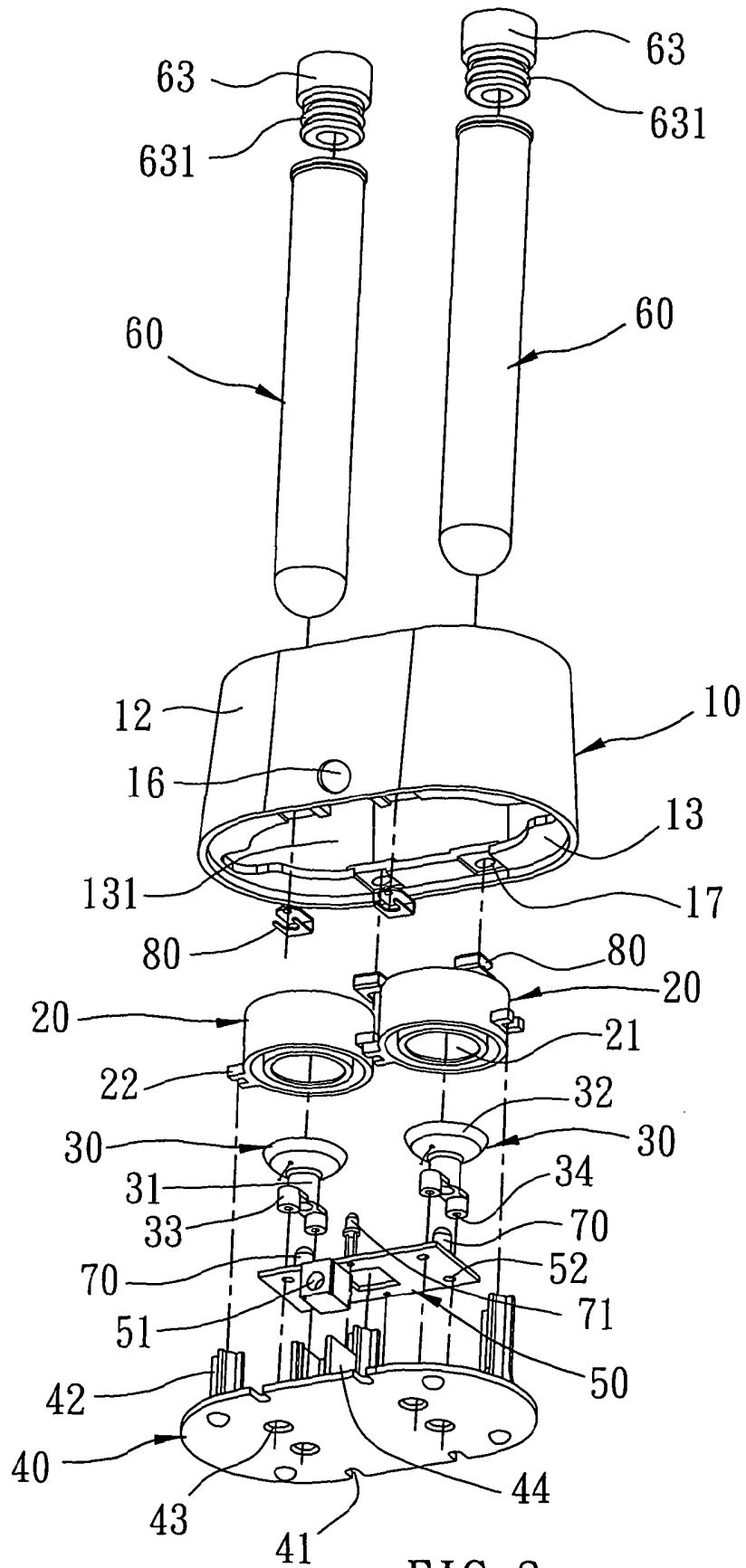


FIG. 3

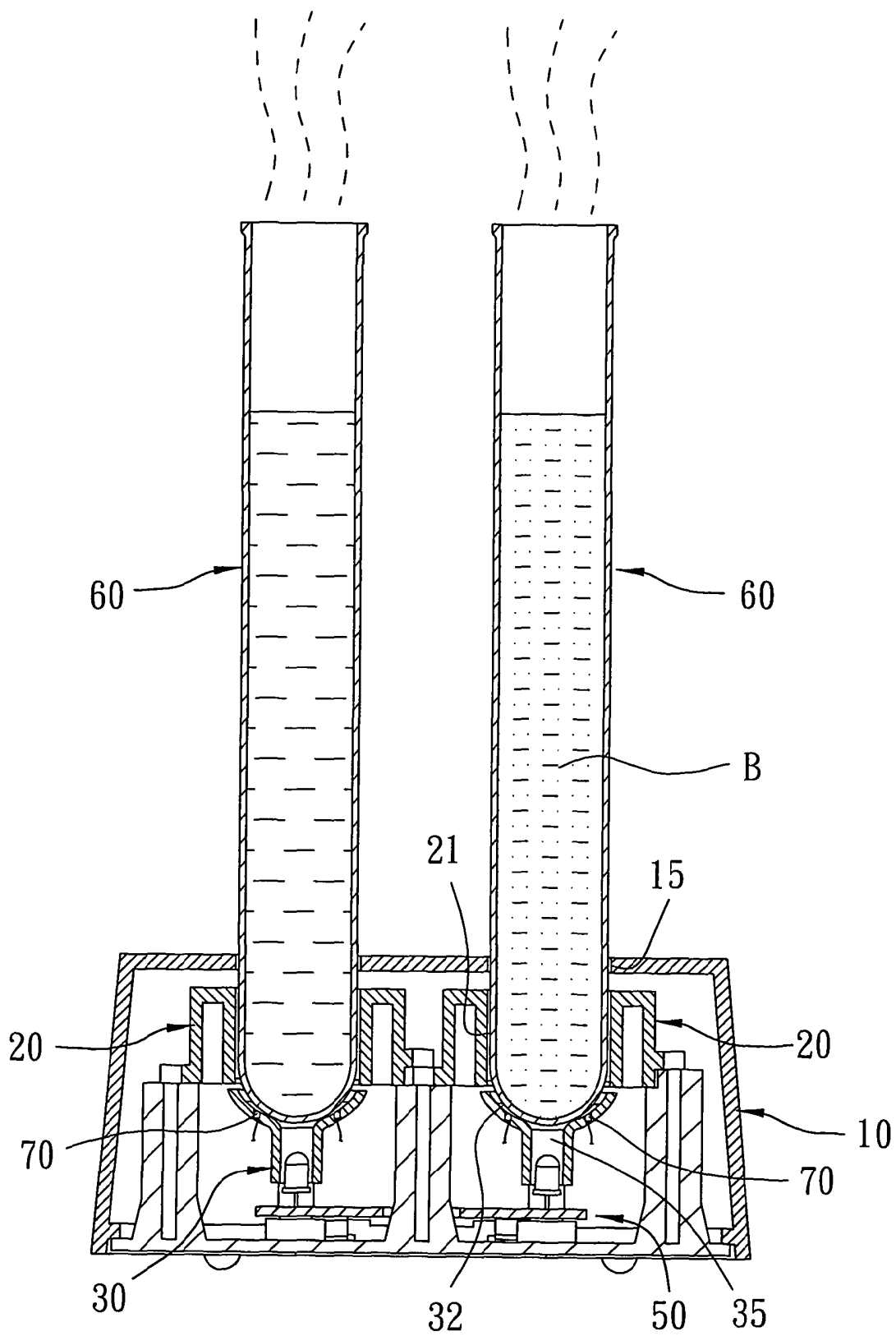


FIG. 4

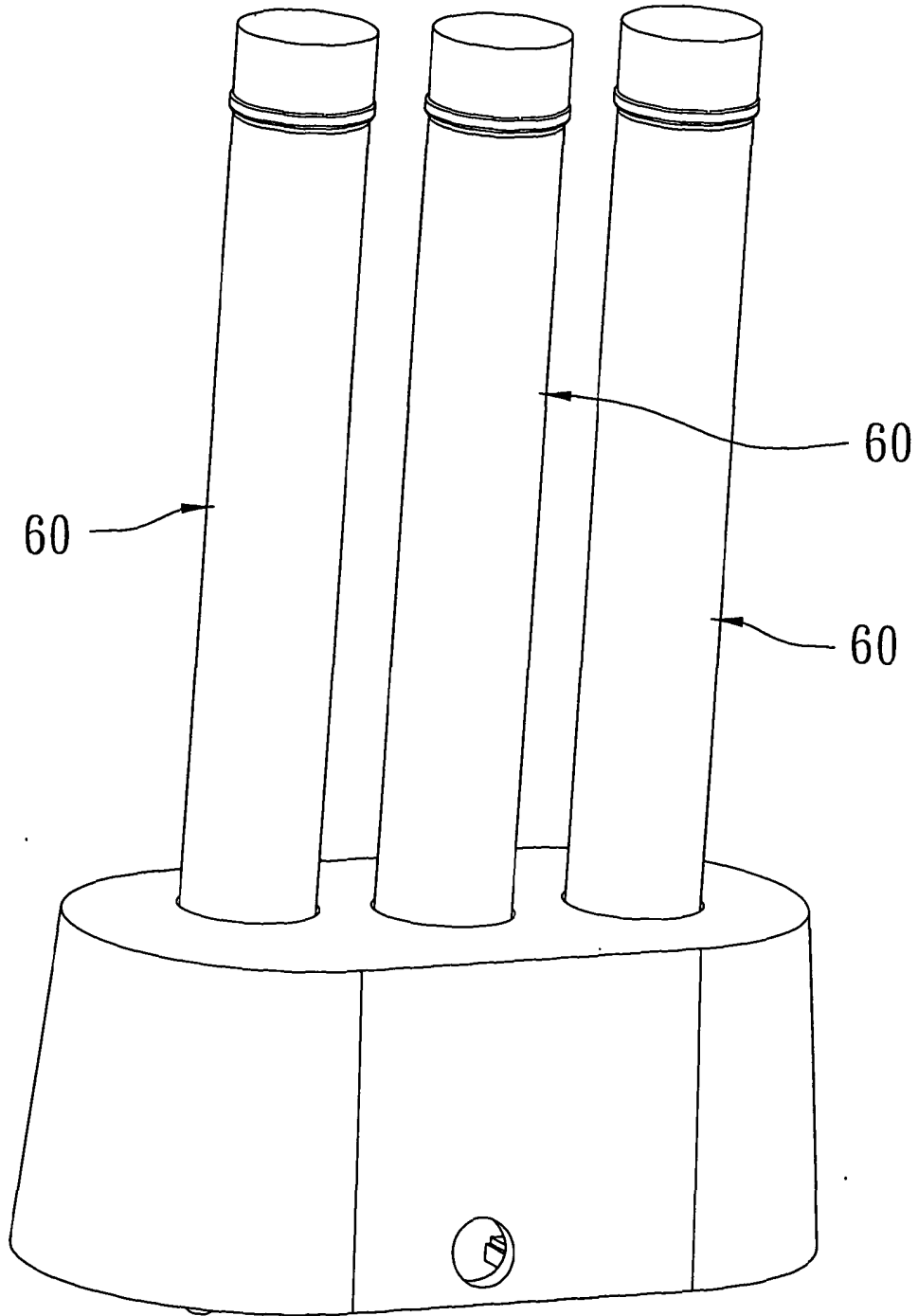


FIG. 5

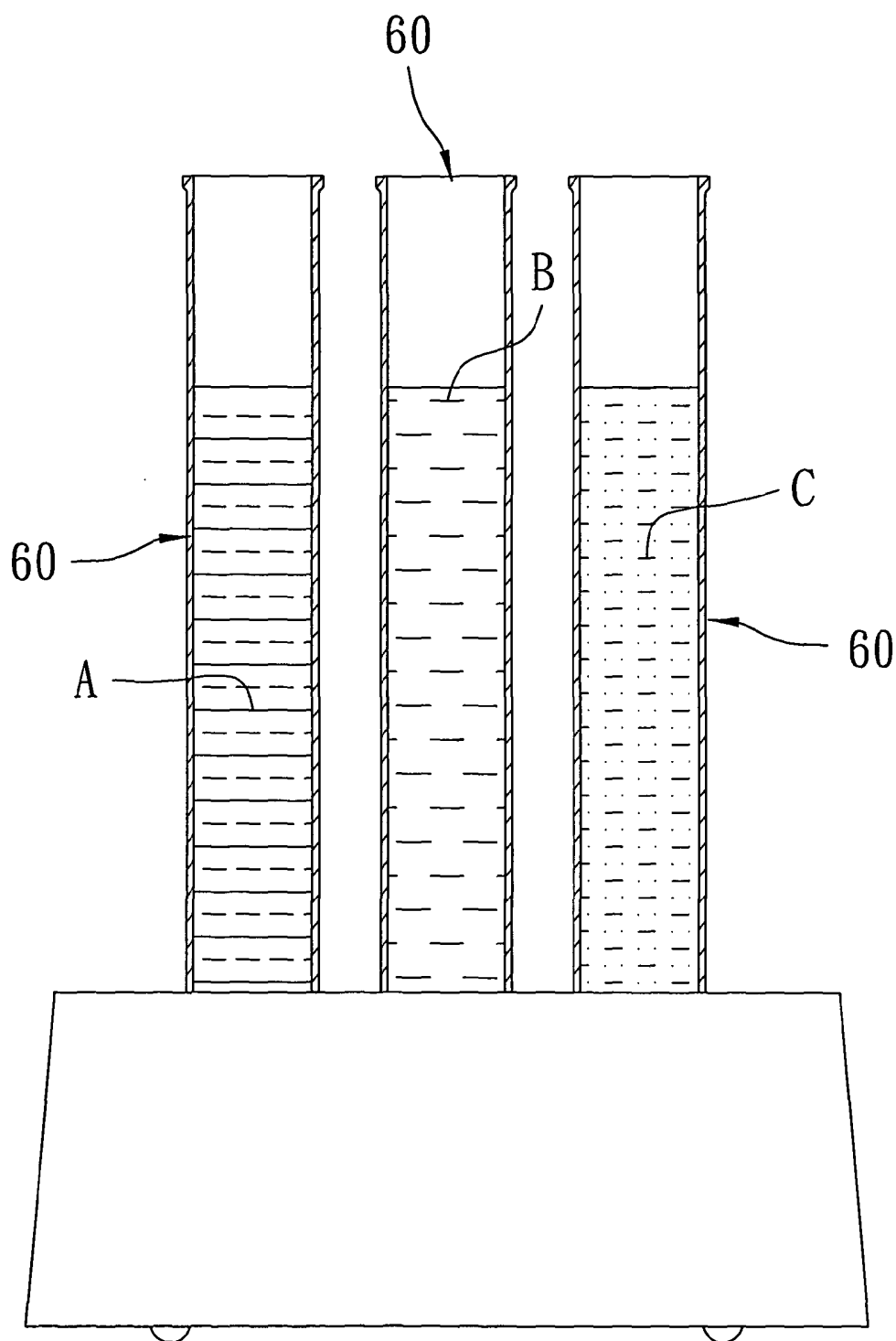


FIG. 6

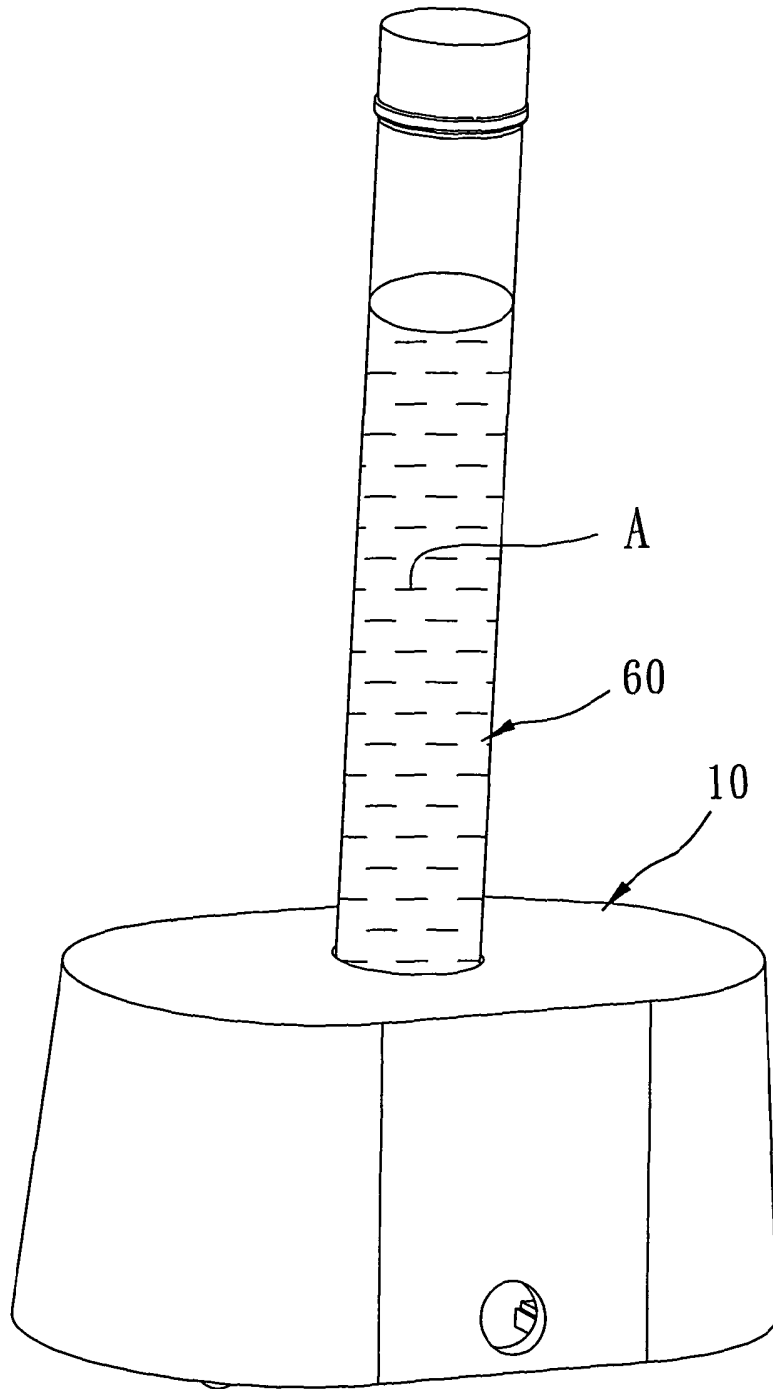


FIG. 7



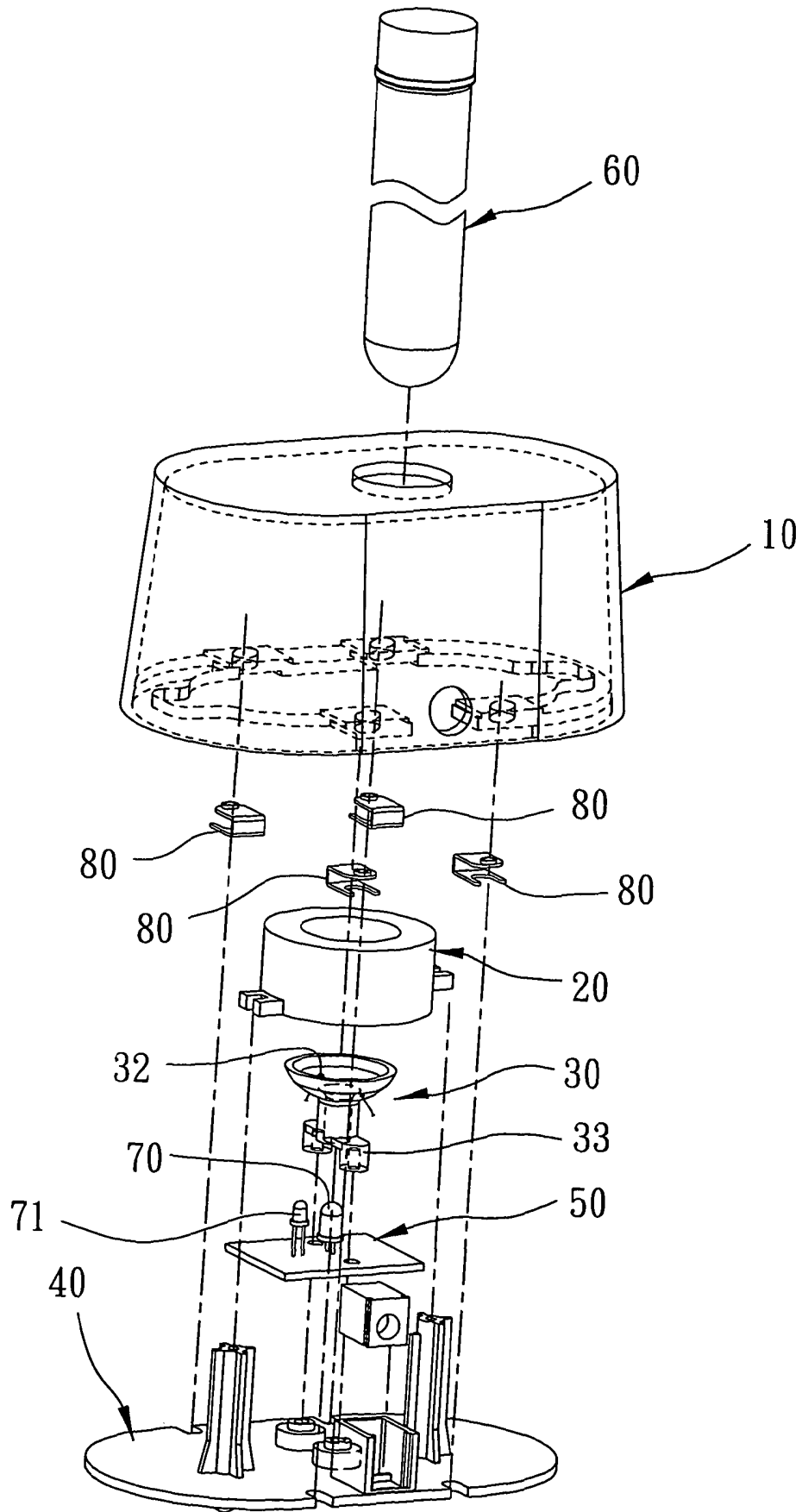


FIG. 8

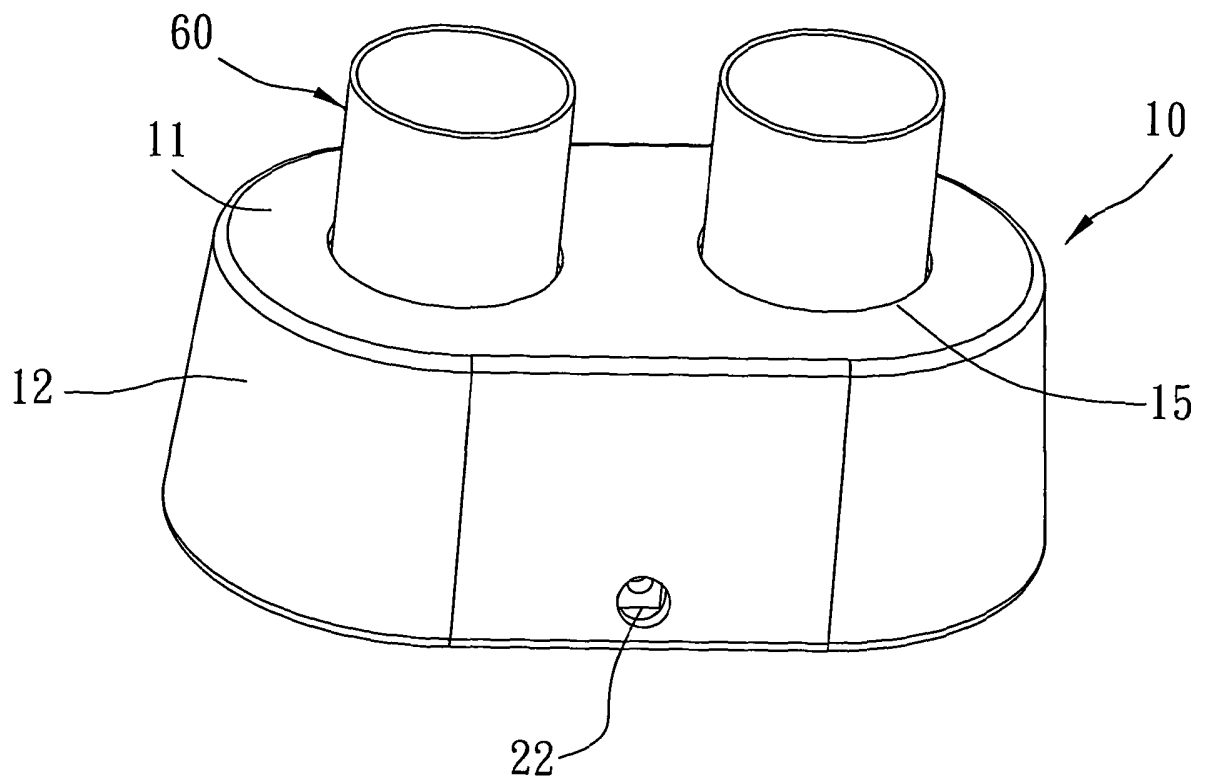


FIG. 9

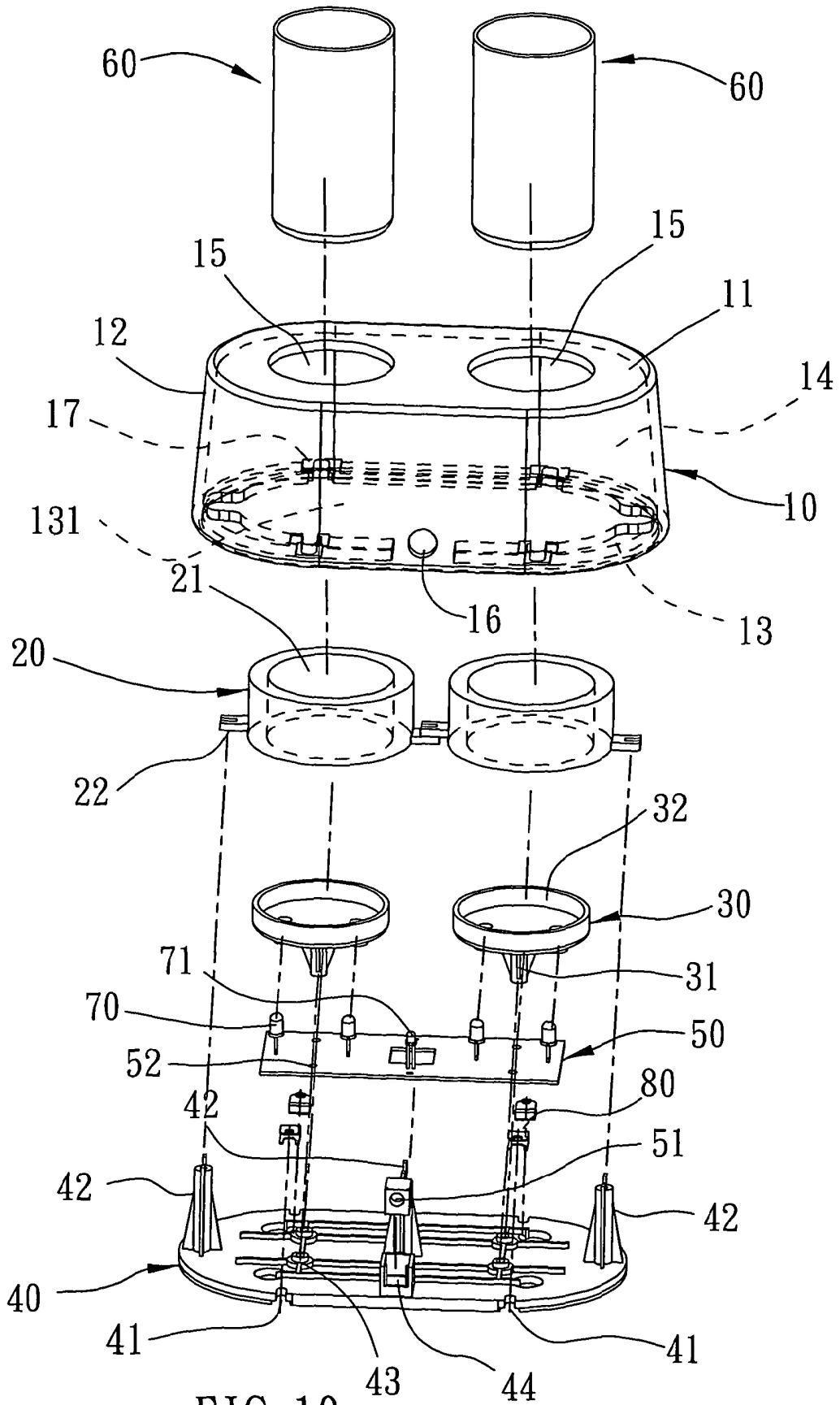


FIG. 10

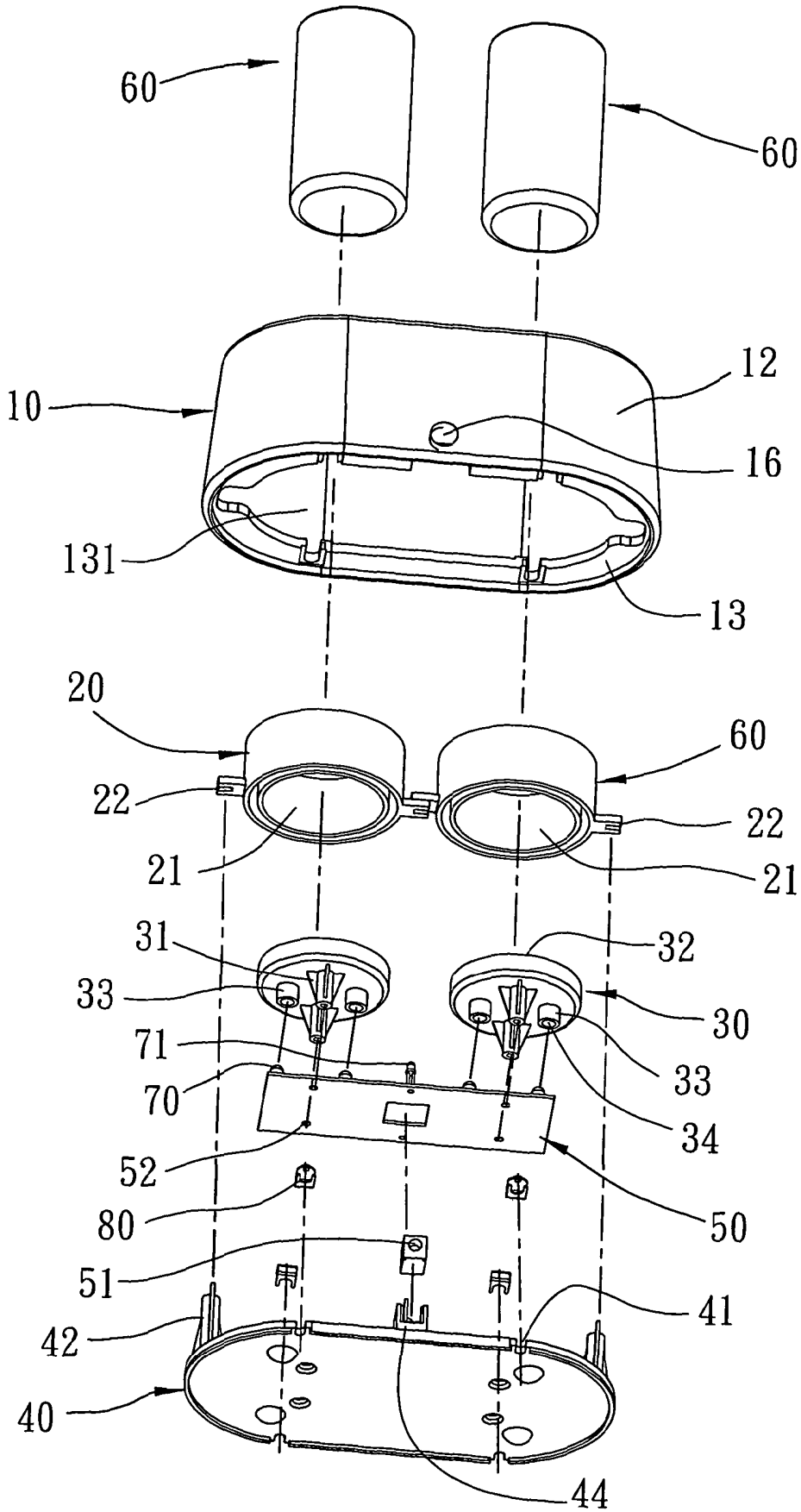


FIG. 11

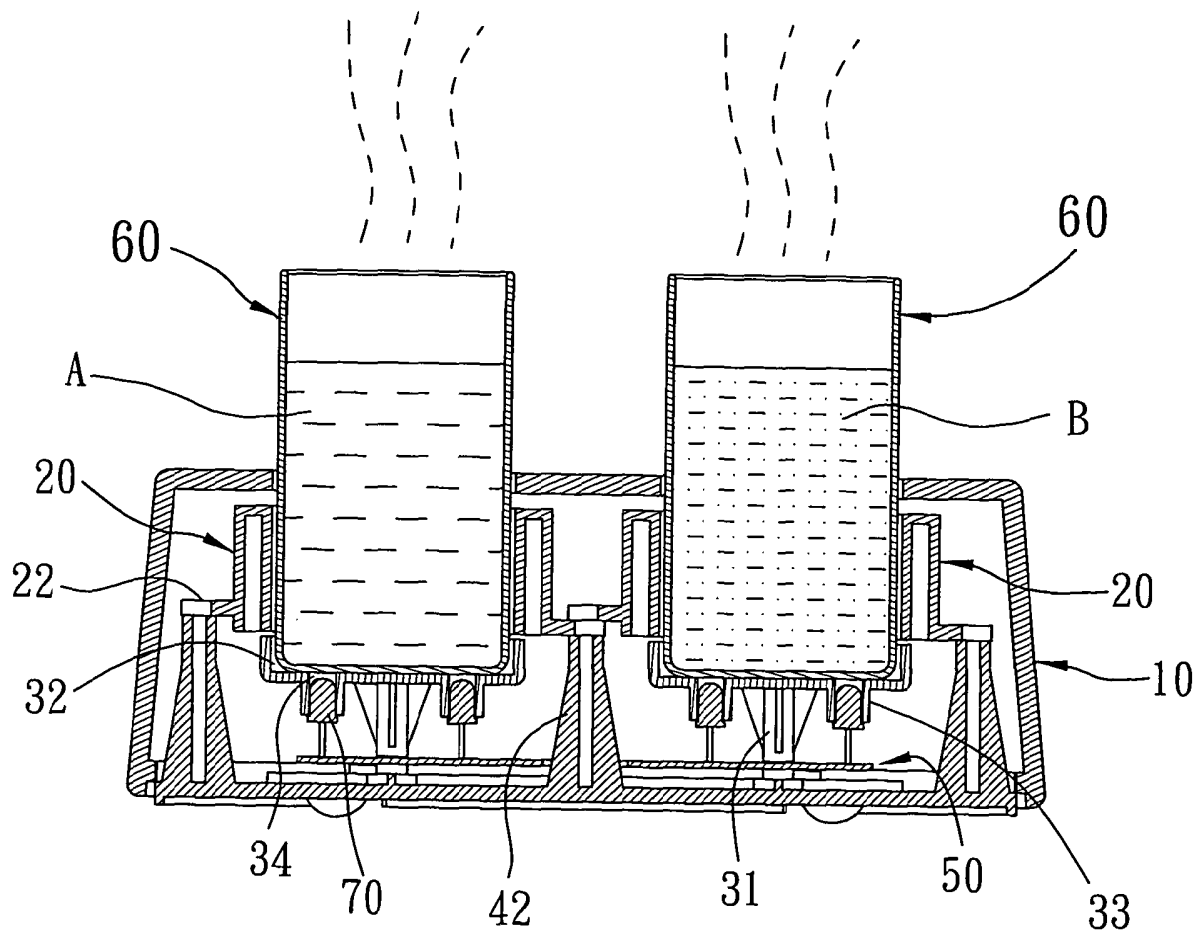
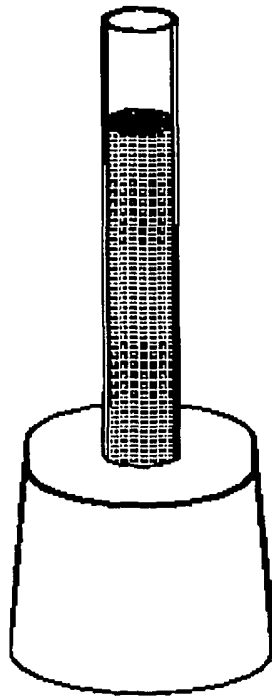
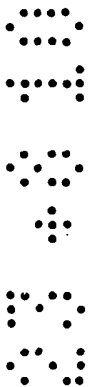
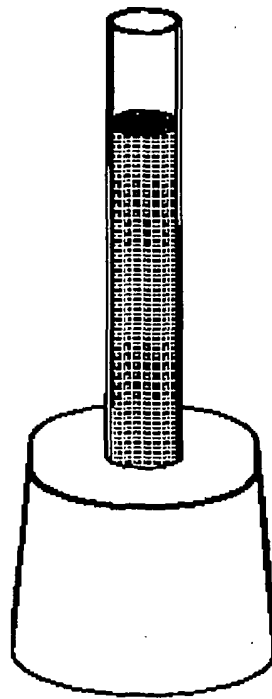


FIG. 12

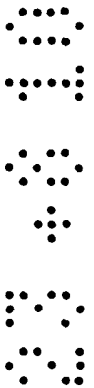


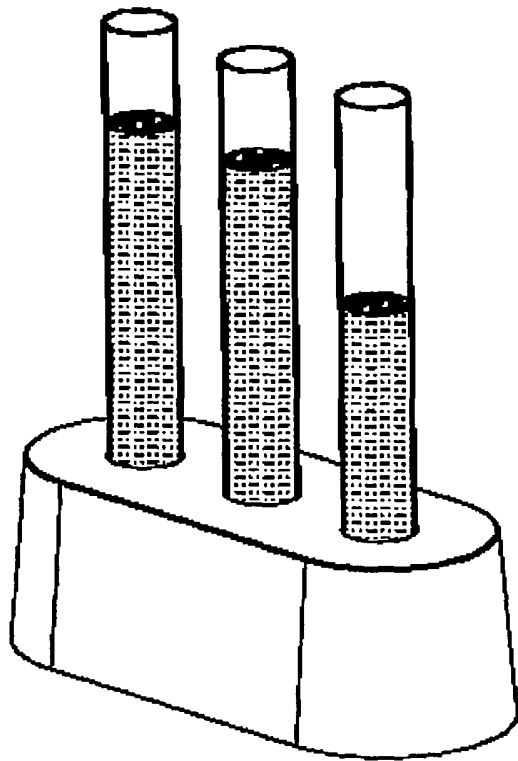
**Annex I**



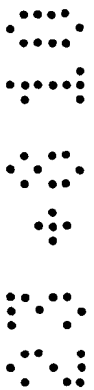


**Annex II**

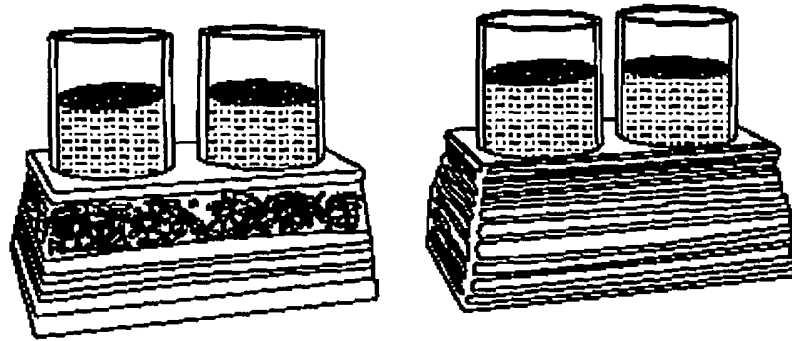




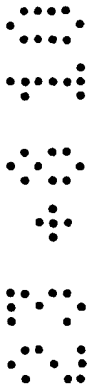
**Annex III**

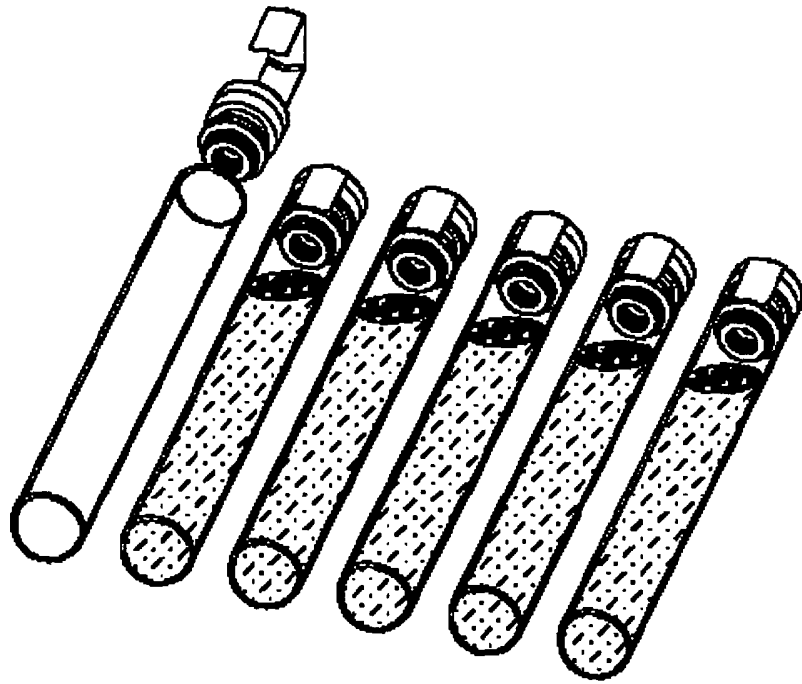




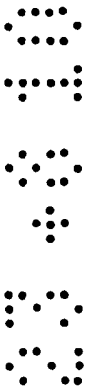


**Annex IV**





**Annex V**



# **LIGHT-EMITTING SMELL-ALTERING AROMA DISPENSER**

## **BACKGROUND OF THE INVENTION**

### **1. Field of the Invention:**

The present invention relates to aroma dispensers and more particularly, to a light-emitting smell-altering aroma dispenser that produces a lighting effect when releasing one or a combination of different pleasant smells to create a warm atmosphere.

### **2. Description of the Related Art:**

An aroma diffuser is known having a number of wooden sticks placed in the diffuser body thereof for absorbing an essential oil. By means of the volatile characteristic of the essential oil, the incense dispenser releases a pleasant smell into the air. However, the essential oil changes into vapor at a low speed. Further, this kind of aroma diffuser cannot produce a mixed smell or any lighting effect.

There is known a fan-operated aroma dispenser for wall mounting. This design of fan-operated aroma dispenser utilizes a fan to causes currents of air in spreading the smell of an aromatic substance. The fan consumes electric energy and causes a noise during operation. Further, this design of fan-operated aroma dispenser cannot create a warm atmosphere or produce a mixed smell or any lighting effect.

There is also known a candleholder type aroma dispenser that utilizes a candle to heat a water tray that carries a certain amount of water and few drops of an essential oil in the water. This design of candleholder type aroma dispenser is not safe in use. During the use of the candleholder type aroma dispenser, the fluid may be forced by an external force to splash over the surroundings accidentally.

There is known a lamp-based aroma dispenser that utilizes a lamp to heat an aromatic substance, causing the aromatic substance to

release a pleasant smell. This design of lamp-aroma dispenser is still not satisfactory in function because it takes a long time to cause the aromatic substance release a pleasant small and cannot produce a mixed smell or a lighting effect.

Further, the aforesaid various different types of aroma dispensers are simply used to release a pleasant smell, they cannot attract people's eyes.

### **SUMMARY OF THE INVENTION**

The present invention has been accomplished under the circumstances in view. It is one object of the present invention to provide a light-emitting smell-altering aroma dispenser, which utilizes tubular aroma containers to hold different liquid aromatic substances for releasing different pleasant smells either at a same time or separately, avoiding oil falling accident and assuring a high level of safety.

To achieve this and other objects of the present invention, a light-emitting smell-altering aroma dispenser comprises a casing, a plurality of heater members, a plurality of trays, a base member, a control circuit board and a plurality of aroma containers. The casing is a hollow member. Each tray has a light emitting device installed therein. The control circuit board controls the heater members to heat the aroma containers separately or at one same time. The aroma containers are tubular members that admit light. The aroma containers are respectively inserted through respective through holes on the top wall of the casing and the axial center through hole of each of the heater members and supported on the trays. Each aroma container is kept in close contact with the periphery of the axial center through hole of the associating heater member. The aroma containers can be heated separately at different time periods or at one same time.

Different colors of aromatic substances may be placed in the aroma containers for releasing different pleasant smells.

The sense of smell of a person will become dull or less acute when smelling one same smell for a long period of time. By means of heating different aromatic substances in different aroma containers to release different smells, the invention keeps your sense of smell smart.

Further, the control circuit board can control multiple heater members to heat different aromatic substances in different aroma containers at the same time, thereby releasing a mixed smell like the preparation of cocktail.

The light-emitting smell-altering aroma dispenser further comprises a plurality of light emitting devices respectively installed in the trays and/or the control circuit board. When electrically connected, the light emitting devices emit light toward the aroma containers, thereby producing a lighting effect. The light emitting devices can be color LEDs (light emitting diodes). The aromatic substances can be prepared in different colors. Therefore, when the light emitting devices light up the aroma containers as the aromatic substances are being heated to release pleasant smells, a romantic, warm and graceful atmosphere is created.

Further, the aroma containers can be prepared from transparent or semi-transparent glass, acrylic, ceramic, crystal, or perforated metal sheet material.

Further, the aromatic substances can be essential oil, scented candle, flower essence and fragrance.

Preferably, the aromatic substances are prepared in a predetermined color.

Further, each heater member can be prepared from mica, PTC

(positive temperature coefficient technology) resistor or cement resistor.

The tubular aroma containers are detachably installed in the casing for easy replacement. A consumer can selectively set tubular aroma containers with different aromatic substances in the casing for releasing different pleasant smells. Therefore, the design of the present invention attracts consumers to buy.

When compared to conventional designs that release one specific smell slowly, the invention can release different pleasant smells and produce a lighting effect to create a romantic, warm and graceful atmosphere. Further, the aroma containers are tubular containers held in the respective through holes of the casing and supported on the respective trays. Therefore, the light-emitting aroma dispenser is safe in use, and the aromatic substances will not fall out of the aroma containers during the use of the light-emitting aroma dispenser.

Further, the light-emitting smell-altering aroma dispenser can be made comprising a casing, at least one heater member, at least one tray, a base member, a control circuit board, and at least one aroma container. For example, the light-emitting smell-altering aroma dispenser can be made having only one tubular aroma container. Further, a light emitting device is installed in the tray and controllable to emit light toward the tubular aroma container. Therefore, the light-emitting smell-altering aroma dispenser produces a lighting effect when releasing a good smell. Further, the heater member and the tray hold the aroma container stably in place, avoiding falling of the aromatic substance out of the aroma container.

Further, a user can purchase a series of aroma containers that have different aromatic substances contained therein, and selectively

set one or a number of the series of aroma containers in the light-emitting smell-altering aroma dispenser for heating by the associating heater member(s) to release the selected pleasant smell. Therefore, a user can change the aroma container to produce a different pleasant smell and a different color of light subject to one's feeling.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

FIG. 1 is an elevational view of a light-emitting smell-altering aroma dispenser in accordance with a first embodiment of the present invention.

FIG. 2 is an exploded view of the light-emitting smell-altering aroma dispenser in accordance with the first embodiment of the present invention.

FIG. 3 is another exploded view of the light-emitting smell-altering aroma dispenser in accordance with the first embodiment of the present invention when viewed from another angle.

FIG. 4 is a sectional assembly view of the light-emitting smell-altering aroma dispenser in accordance with the first embodiment of the present invention.

FIG. 5 is an elevational view of a light-emitting smell-altering aroma dispenser in accordance with a second embodiment of the present invention.

FIG. 6 is a schematic sectional view of the light-emitting smell-altering aroma dispenser in accordance with the second embodiment of the present invention.

FIG. 7 is a schematic elevational view of a light-emitting smell-altering aroma dispenser in accordance with a third embodiment of the present invention.

FIG. 8 is an exploded view of the light-emitting smell-altering

aroma dispenser in accordance with the third embodiment of the present invention.

FIG. 9 is a schematic elevational view of a light-emitting smell-altering aroma dispenser in accordance with a fourth embodiment of the present invention.

FIG. 10 is a perspective exploded view of the light-emitting smell-altering aroma dispenser in accordance with the fourth embodiment of the present invention.

FIG. 11 is an exploded view of the light-emitting smell-altering aroma dispenser in accordance with the fourth embodiment of the present invention when viewed from another angle.

FIG. 12 is a schematic sectional view of the light-emitting smell-altering aroma dispenser in accordance with the fourth embodiment of the present invention.

Annex I: Color picture of a status of use of a real product of two-aroma container type light-emitting smell-altering aroma dispenser according to the present invention.

Annex II: Color picture of a status of use of a real product of single aroma container type light-emitting smell-altering aroma dispenser according to the present invention.

Annex III: Color picture of a status of use of a real product of three-aroma container type light-emitting smell-altering aroma dispenser according to the present invention.

Annex IV: Color picture of a status of use of a real product of cup-like aroma container according to the present invention.

Annex V: Color picture of a real product of tubular aroma container according to the present invention.

#### **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

Referring to FIGS. 1~3, a light-emitting smell-altering aroma



dispenser in accordance with a first embodiment of the present invention is shown comprising a casing **10**, two heater members **20**, two trays **30**, a base member **40**, a control circuit board **50**, two aroma containers **60**, a plurality of light emitting devices **70**, and a plurality of clamping plates **80**.

The casing **10** has a top wall **11**, a peripheral wall **12**, a bottom wall **13**, an accommodation chamber **14**, at least two through holes **15**, a wire hole **16**, and a plurality of locating holes **17**. The through holes **15** are located on the top wall **11**. The bottom wall **13** has an opening **131**. The wire hole **16** is located on the peripheral wall **12** at one side.

The heater members **20** are cylindrical members mounted in the accommodation chamber **14** inside the casing **10** and respectively aimed at the through holes **15**. Each heater member **20** has an axial center through hole **21**, and a plurality of lugs **22** arranged at two opposite lateral sides. According to this embodiment, the two heater members **20** are joined together by means of affixing corresponding lugs **22** together. Further, each heater member **20** can be prepared from mica, PTC (positive temperature coefficient technology) resistor or cement resistor.

The trays **30** are respectively arranged at the bottom side of the heater members **20**. Each tray **30** has a tray body **32**, a tubular stem **31** located on the bottom side of the tray body **32**, and two legs **33**. The tray body **32** is shaped like a hollow, rounded dish. The legs **33** are symmetrically disposed at two sides of the tubular stem **31**, each having a locating hole **34** at the center.

The base member **40** is joined to the bottom side of the casing **10** to close the opening **131**. The base member **40** has a plurality of mounting notches **41**, a plurality of columns **42**, a plurality of mounting through holes **43**, and a rack **44**. The columns **42** are

respectively fastened to the lugs **22** of the heater members **20**, supporting the heater members **20** firmly in place.

The control circuit board **50** is adapted for controlling the power loop of the light-emitting smell-altering aroma dispenser and providing electricity to the heater members **20** in sequence or simultaneously to generate heat. The control circuit board **50** has a power jack **51** and a plurality of mounting through holes **52**. The power jack **51** is positioned in the rack **44** of the base member **40** and aimed at the wire hole **16** of the casing **10** for the connection of an external power cord (not shown). The mounting through holes **52** are respectively fastened to the locating holes **34** of the trays **30** and the mounting through holes **43** of the base member **40** by fastening members (not shown).

The aroma containers **60** are light transmission tubular members respectively inserted through the through holes **15** of the casing **10** and the axial center through holes **21** of the heater members **20** and supported on the trays **30**. After installation of the aroma containers **60**, the bottom end of each aroma container **60** is kept in close contact with the periphery of the axial center through hole **21** of the associating heater member **20**.

The light emitting devices **70** are respectively mounted in the tubular stems **31** of the trays **30**. When electrically connected, the light emitting devices **70** emit light toward the aroma containers **60** to light up the aromatic substances **A** and **B** in the aroma containers **60** at night, producing a lighting effect and creating a romantic, warm and graceful atmosphere. When the control circuit board **50** controls one heater member **20** to heat the respective aroma container **60**, the respective light emitting device **70** is turned on to light up the respective aroma container **60**, enabling the user to know which aroma

container **60** is being heated. On the contrary, when the control circuit board **50** stops one heater member **20** from heating the associating aroma container **60**, the associating light emitting device **70** is turned off. Annex I is a color picture of a status of use of the light-emitting smell-altering aroma dispenser.

The clamping plates **80** are respectively affixed to the locating holes **17** of the casing **10**. When the base member **40** is fastened to the casing **10** to close the opening **16**, the mounting notches **41** are respectively fastened to the clamping plates **80** by fastening members (not shown).

Referring to FIG. 4, the aroma containers **60** are respectively inserted into the through holes **15** of the casing **10** and held in place by the heater members **20** and the trays **30**, avoiding overflow of the liquid aromatic substances **A** and **B**. Further, each aroma container **60** is kept abutted against the periphery of the axial center through hole **21** of the associating heater member **20**. After putting aromatic substances **A** and **B** in the aroma containers **60**, set various operation modes of the control circuit board to control the operation of the two heater members **20** in heating the aromatic substances **A** and **B** in the aroma containers **60** for generating different pleasant smells at different time periods, or in heating the aromatic substances **A** and **B** in the aroma containers **60** at a same time for generating a mixed smell of the aromatic substances **A** and **B**. Further, by means of controlling the light emitting devices **70** to light up the colorful aromatic substances **A** and **B** in the aroma containers **60**, the invention produces a lighting effect and creates a romantic, warm and graceful atmosphere. Further, each aroma container **60** is equipped with a plug **63**. The plug **63** is a cylindrical member having ribs **631** extending around the periphery of the lower part thereof at different elevations

for friction engagement with the inner diameter of the associating aroma container **60** to seal the top opening **61** of the associating aroma container **60**, avoiding escape of the smell of the aromatic substance **A** or **B**.

When compared to known designs of incense burners that commonly utilize an integrated dish to hold a liquid incense at the top side of the burner body, the use of the tubular aroma containers **60** to hold liquid aromatic substances according to the present invention eliminates the problem of splashing of a liquid incense or aromatic substance. Further, the invention utilizes DC/AC for causing the heater members **20** to heat the aroma containers **60**, assuring heating stability. Further, the heater members **20** can be controlled to heat the associating aroma containers **60** one after another at a predetermined time interval. Further, the control circuit board **50** cuts off power supply from the heater members **20** automatically when the set heating time is up, assuring high level of safety. The heating time is set subject to calculation of the amount of the aromatic substances put in the aroma containers **60**. Therefore, the aromatic substances **A** and **B** can be fully used up when the set heating time is up.

FIGS. 5 and 6 show a light-emitting smell-altering aroma dispenser in accordance with a second embodiment of the present invention. This second embodiment is substantially similar to the aforesaid first embodiment with the exception that this second embodiment is equipped with three aroma containers **60** to hold three different colors of aromatic substances **A**, **B** and **C** that release different pleasant smells when heated. The use of this second embodiment is substantially similar to the aforesaid first embodiment. Therefore, no further detailed description in this regard is necessary. From Annex II, you can see the light-emitting smell-altering aroma

dispenser with three different colors of aromatic substances.

FIGS 7 and 8 show a light-emitting smell-altering aroma dispenser in accordance with a third embodiment of the present invention. The light-emitting smell-altering aroma dispenser in accordance with this third embodiment comprises a casing **10**, a heater member **20**, a tray **30**, a base member **40**, a control circuit board **50**, an aroma container **60**, a plurality of light emitting devices **70**, and a plurality of clamping plates **80**.

According to this third embodiment, the aroma container **60** is a tubular member holding an aromatic substance **A**, which is a color essential oil. The control circuit board **50** controls the heater member **20** to heat the aroma container **60**, and cuts off power supply from the heater member **20** when a predetermined heating time is up. Preferably, the heating time is calculated subject to the amount of the aromatic substance **A**, assuring a high level of safety. Further, the lighting effect of this third embodiment is same as the aforesaid first and second embodiments.

According to any of the aforesaid three embodiments, the light-emitting smell-altering aroma dispenser provides a lighting effect when releasing a pleasant smell. Under the illumination of light, people can see the presence of the aromatic substance(s) when smelling a pleasant smell. Therefore, the invention makes people to feel warm and pleasant. Further, because the aroma container **60** is a tubular member positioned in the associating heater member **20** and supported on the associating tray **30**, the contained liquid aromatic substance will splash over the floor accidentally.

FIGS. 9~12 show a light-emitting smell-altering aroma dispenser in accordance with a fourth embodiment of the present invention. According to this fourth embodiment, the aroma containers

60 are made in the form of a glass cup, and the trays 30 are made to match the cup-like aroma containers 60. Further, this fourth embodiment includes 5 light emitting devices 71, four installed in the tubular stems 31 of the trays 30 and one mounted on the control circuit board 50. This fourth embodiment is suitable for use in a big space, public place or outdoor open space to produce a big amount of pleasant smell and a striking color of light (see Annex IV). The use of this fourth embodiment is same as the aforesaid various embodiments, and therefore not further detailed description in this regard is necessary.

Preferably (see Annex V), a user can purchase a series of aroma containers 60 that have different aromatic substances contained therein, and selectively set one or a number of the series of aroma containers 60 in the light-emitting smell-altering aroma dispenser for heating by the associating heater member(s) to release the selected pleasant smell. Therefore, a user can selectively alter the aroma container to produce a different pleasant smell and a different color of light subject to one's feeling.

Further, the control circuit board 40 has at least one light emitting device 71 installed therein to light up the inside space of the casing 10. Further, the casing 10 can be prepared from transparent or semi-transparent glass, acrylic, ceramic, crystal, or perforated metal sheet material. Under the illumination of the internal light emitting device 71, the casing 10 produces a warm lighting effect.

A prototype of light-emitting smell-altering aroma dispenser has been constructed with the features of FIGS. 1~12. The light-emitting smell-altering aroma dispenser functions smoothly to provide all of the features disclosed earlier.

Although particular embodiments of the invention have been

described in detail for purposes of illustration, various modifications and enhancements may be made without departing from the spirit and scope of the invention. Accordingly, the invention is not to be limited except as by the appended claims.

## Claims

1. A light-emitting smell-altering aroma dispenser, comprising:

a casing (10), said casing (10) having a top wall (11), a peripheral wall (12), a bottom wall (13), an accommodation chamber (14), a plurality of through holes (15) located on said top wall (11), a wire hole (16) located on said peripheral wall (12) at one side, and an opening (131) located on said bottom wall (13);

a plurality of heater members (20) mounted in said accommodation chamber (14) and respectively aimed at said through holes (15), each said heater member (20) having an axial center through hole (21);

a plurality of trays (30) respectively arranged at a bottom side of said heater members (20), each said tray (30) having a tray body (32) shaped like a hollow rounded dish, a tubular stem (31) located on a bottom side of said tray body (32) and at least one leg (33);

a base member (40) affixed to said casing (10) to close said opening (131);

a control circuit board (50) fastened to the legs (33) of said trays (30) and adapted for providing electricity to said heater members (20) to generate heat subject to a predetermined operation mode, said control circuit board (50) comprising a power jack (51) positioned in said wire hole (16) of said casing (10) for the connection of an external power cord; and

a plurality of aroma containers (60) respectively inserted through the through holes (15) of said casing (10) and the axial center through holes (21) of said heater members (20) and supported on said trays (30) and kept in close contact with the periphery of the axial center through hole (21) of the associating heater member (20) for



holding at least one aromatic substance that releases a smell when heated.

2. The light-emitting smell-altering aroma dispenser as claimed in claim 1, further comprising a plurality of light emitting devices (70) mounted in the tubular stems (31) of said trays (30) and controllable by said control circuit board (50) to emit light toward said aroma containers (60).

3. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein the number of said aroma containers (60) is 2; the number of said through holes (15) is 2; the number of said heater members (20) is 2; the number of said trays (30) is 2; the number of said light emitting devices (70) is 2, and the two light emitting devices (70) are respectively mounted in the tubular stems (31) of the two trays (30).

4. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein each said aroma container (60) has a respective aromatic substance contained therein.

5. The light-emitting smell-altering aroma dispenser as claimed in claim 4, wherein the aromatic substance contained in each said aroma container (60) is selected from a group of essential oil, scented candle, flower essence and fragrance and prepared in a predetermined color.

6. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein said heater members (20) are prepared from one of a group of mica, PTC (positive temperature coefficient technology) resistor and cement resistor.

7. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein said casing (10) has a plurality of locating holes (17) located on the bottom wall (31) thereof, and a plurality of

clamping plates (80) respectively fastened to said locating holes (17); said base member (40) has a plurality of mounting notches (41) that are respectively fastened to said clamping plates (80) when said base member (40) is fastened to said casing (10) to close said opening (131).

8. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein the number of said aroma containers (60) is 3; the number of said through holes (15) is 2; the number of said heater members (20) is 3; the number of said trays (30) is 3; the number of said light emitting devices (70) is 3, and the three light emitting devices (70) are respectively mounted in the tubular stems (31) of the three trays (30).

9. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein each said aroma container (60) has a top opening (61) sealed with a plug (63), said plug (63) having ribs (631) extending around the periphery thereof for friction engagement with the periphery of the top opening (61) of one said aroma container (60).

10. The light-emitting smell-altering aroma dispenser as claimed in claim 1, wherein said control circuit board (50) has at least one light emitting device (71) installed therein; said casing (10) admits light from the at least one light emitting device (71) at said control circuit board (50).

11. A light-emitting smell-altering aroma dispenser, comprising:

a casing (10), said casing (10) having a top wall (11), a peripheral wall (12), a bottom wall (13), an accommodation chamber (14), a through hole (15) located on said top wall (11), a wire hole (16) located on said peripheral wall (12) at one side, and an opening (131)

located on said bottom wall (13);

at least one heater member (20) mounted in said accommodation chamber (14) of said casing (10) and aimed at said through hole (15), each said heater member (20) having an axial center through hole (21);

at least one tray (30) arranged at a bottom side of said heater members (20), each said tray (30) having a tray body (32) shaped like a hollow rounded dish, a tubular stem (31) located on a bottom side of said tray body (32) and at least one leg (33);

a base member (40) affixed to said casing (10) to close said opening (131); and

at least one aroma container (60) inserted through the through hole (15) of said casing (10) and the axial center through hole (21) of each said heater member (20) and supported on said at least one tray (30) and kept in close contact with the periphery of the axial center through hole (21) of each said heater member (20) for holding at least one aromatic substance that releases a smell when heated by said at least one heater member (20) upon connection of electricity to said at least one heater member (20).

12. The light-emitting smell-altering aroma dispenser as claimed in claim 11, further comprising at least one light emitting device (70) installed in the tubular stem (31) of said at least one tray (30) and controllable to emit light toward said at least one aroma container (60).

13. The light-emitting smell-altering aroma dispenser as claimed in claim 11, further comprising a control circuit board (50) fastened to the leg (33) of said at least one tray (30) and adapted for providing electricity to said at least one heater member (20) to generate heat subject to a predetermined operation mode, said control

U  
circuit board (50) comprising a power jack (51) positioned in said wire hole (16) of said casing (10) for the connection of an external power cord.

14. The light-emitting smell-altering aroma dispenser as claimed in claim 11, wherein each said aroma container (60) has a respective aromatic substance contained therein.

15. The light-emitting smell-altering aroma dispenser as claimed in claim 14, wherein the aromatic substance contained in each said aroma container (60) is selected from a group of essential oil, scented candle, flower essence and fragrance and prepared in a predetermined color.

16. The light-emitting smell-altering aroma dispenser as claimed in claim 13, wherein said control circuit board (50) has at least one light emitting device (71) installed therein; said casing (10) admits light from the at least one light emitting device (71) at said control circuit board (50).

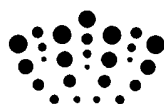
17. The light-emitting smell-altering aroma dispenser as claimed in claim 11, wherein each said heater member (20) is prepared from one of a group of mica, PTC (positive temperature coefficient technology) resistor and cement resistor.

18. The light-emitting smell-altering aroma dispenser as claimed in claim 11, wherein said base member (40) has a plurality of columns (42); each said heater member (20) has a plurality of lugs (22) respectively affixed to said columns (42) of said base member (40).

19. The light-emitting smell-altering aroma dispenser as claimed in claim 11, wherein each said aroma container (60) has a top opening (61) sealed with a plug (63), said plug (63) having ribs (631) extending around the periphery thereof for friction engagement with the periphery of the top opening (61) of one said aroma container

✓  
(60).

20. A light-emitting smell-altering aroma dispenser substantially as described herein with reference to the drawings.



**Application No:** GB0906574.9

**Examiner:** Mr Chris Archer

**Claims searched:** 1-20

**Date of search:** 25 June 2010

**Patents Act 1977: Search Report under Section 17**

**Documents considered to be relevant:**

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
A	-	WO 2008/027537 A (S.C. JOHNSON) see figures.
A	-	US 2010/0025490 A (BUSHMAN) see figures.
A	-	GB 2449703 A (JEYES) see figures.

**Categories:**

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

**Field of Search:**

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC<sup>X</sup> :

--

Worldwide search of patent documents classified in the following areas of the IPC

A61L; F24F
------------

The following online and other databases have been used in the preparation of this search report

WPI, EPODOC
-------------

**International Classification:**

Subclass	Subgroup	Valid From
A61L	0009/03	01/01/2006