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Description

BACKGROUND

1. Field of the invention

[0001] The present invention is applied to daily necessities, in particular to a decoration can be used as Christmas charms, Christmas decorations, home accessories, ornaments, phone charms, and etc..

2. Description of the Related Art

[0002] Presently, for increasing personalities or increasing festival atmosphere, hanging drops are often tied to personal effects such as mobile phones, kitbags, and etc., or ornaments are often placed to places at home or places in front of the door, which need to be decorated, to decorate the required place or room according to users' requirements.

[0003] Most conventional decorations include two-dimensional or directly formed three-dimensional articles, however, two-dimensional decorations lack of spatial and stereoscopic sense; as for tri-dimensional decorations, because of its large volume, for its transportation and storage, resulting waste of space and readily resulting damages in tri-dimensional ornamental. Also, tri-dimensional ornamentals cause the cost and difficulties in manufacturing, and therefore, induce the increase in manufacture cost.

[0004] AU 429 675 B discloses a method of punching spiral incense sticks made from a mixture of insecticide and a filler and a binder.

[0005] US 2003/0104167 discloses a method of manufacturing a three-dimensional object having one convolution.

BRIEF SUMMARY

[0006] In order to overcome the shortcomings in actual use of the conventional decorations, i.e., the large volume for the transportation and storage, and high-cost in manufacture. The present invention redesigns the decorations.

[0007] The present invention provides a decoration which is convenient to transport and store, and could greatly reduce the volume, and both has special spatial configuration design, and can be readily manufactured and is convenient for assembly.

[0008] The decoration of the present invention includes a shapable main body made of metal. The main body forms an outer edge portion and an inner edge portion. The outer edge portion is formed around a periphery of the inner edge portion. The inner edge portion has at least two disconnected coil cutting lines. The cutting lines respectively form an initiating terminal adjacent to the outer edge portion, and the cutting lines wrap around along the main body, equidistantly wind to a centre of the main body and connect with each other. The inner edge portion separately forms mutually corresponded first convolution and second convolution by the cutting lines. Initiating terminals of the first convolution and the second convolution respectively locate at adjacent sides of the cutting lines and respectively connect to the outer edge portion. The first convolution and the second convolution of the decoration are respectively pulled from the main body outwardly toward opposite sides of the main body for tensile position, making the first convolution and the second convolution respectively form tri-dimensional conical revolutions facing to different directions.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] These and other features and advantages of the various embodiments disclosed herein will be better understood with respect to the following description and drawings, in which like numbers refer to like parts throughout, and in which:

[0010] Figure 1 is an exploded view of unexpanded state of an embodiment of the present invention.

[0011] Figure 2 is a tri-dimensional view of figure 1.

[0012] Figure 3 is a front view of figure 2.

[0013] Figure 4 is an exploded view of unexpanded state of an embodiment of the present invention.

[0014] Figure 5 is a tri-dimensional view of figure 4.

[0015] Figure 6 is an exploded view of unexpanded state of an embodiment of the present invention.

[0016] Figure 7 is a tri-dimensional view of figure 6.

[0017] Figure 8 is an exploded view of unexpanded state of an embodiment of the present invention.

[0018] Figure 9 is a tri-dimensional view of figure 8.

[0019] Figure 10 is an exploded view of unexpanded state of an embodiment of the present invention.

[0020] Figure 11 is an exploded view of unexpanded state of an embodiment of the present invention.

[0021] Figure 12 is an exploded view of unexpanded state of an embodiment of the present invention.

[0022] Figure 13 is an exploded view of unexpanded state of an embodiment of the present invention.

[0023] Figure 14 is an exploded view of unexpanded state of an embodiment of the present invention.

[0024] Figure 15 is an exploded view of unexpanded state of an embodiment of the present invention.

DETAILED DESCRIPTION

[0025] Referring to figure 1, the decoration of the present invention includes a shapable main body 10 and a combining element 20.

[0026] The main body 10 is made of metal, and the main body is of circular shape as illustrated in figure 1. The main body 10 forms an outer edge portion 11 and an inner edge portion 12. The outer edge portion 11 is formed around a periphery of the inner edge portion 12, and the inner edge portion 12 has two disconnected coil cutting lines 13. The cutting lines 13 respectively form an

initiating terminal adjacent to opposite ends of the outer edge portion 11, the cutting lines 13 wrap around along the circular contour of the main body 10, equidistantly wind to a centre of the main body 10 and connect with each other. The inner edge portion 12 separately forms mutually corresponded first convolution 14 and second convolution 15 by the cutting lines 13. Initiating terminals of the first convolution 14 and the second convolution 15 respectively locate at adjacent sides of the cutting lines 13 and respectively connect to the outer edge portion 11.

[0027] The combining element 20 is a sheet body, and is fixed to the outer edge portion 11 of the main body 10. The combining element 20 has a perforation 21 extending therethrough. By means of the forgoing structures, to achieve the decoration of the present invention.

[0028] When assembling to the usage state of the decoration, referring to figures 2 and 3, the first convolution 14 and the second convolution 15 of the decoration are respectively pulled out from the main body 10 toward opposite sides of the main body 10 for fix positioning, making the first convolution 14 and the second convolution 15 respectively form tri-dimensional conical revolutions facing to different directions, for forming the decoration in a tri-dimensional configuration and achieving tri-dimensional decoration.

[0029] Figures 4 and 5 cooperatively show an embodiment of the present invention, wherein the outer edge portion 31 of the main body 30 can be disposed to the illustrated configuration, and the cutting lines 32, corresponding to the contour of the outer edge portion 31, form coiled phenix-eye shaped configuration. After the first convolution 33 and the second convolution 34 being pulled out along opposite directions and fixedly positioned, tri-dimensional change of special curve will generate. Moreover, referring to figures 6 and 7, the configuration of the outer edge portion 41 of the main body 40 can be disposed to water-dropped configuration, and therefore, the decoration form tri-dimensional water-drop of hollowed-out.

[0030] Figures 8 and 9 cooperatively show an embodiment of the present invention, wherein the combining element 51 is integrally formed with the main body 50 from a single piece, and the outer edge portion 52 is disposed to a musical noted configuration. The combining element 51 is formed at the top of the musical note, forming a perforation 510. The inner edge portion 53 has at least two disconnected coil cutting lines 54, for respectively forming the first convolution 55 and the second convolution 56, and cooperating with the pulling out of the first convolution 55 and the second convolution 56, forming tri-dimensional decoration.

[0031] Figures 10 through 12 respectively show an embodiment of the present invention, wherein the combining element 61 is integrally formed with the main body 60 from a single piece, and the outer edge portion 62 is disposed to heart-shaped configuration illustrated in figure 10, star-shaped configuration illustrated in figure 11, or Christmas tree shaped configuration illustrated in figure 12. The inner edge portion 63 has at least two disconnected coil cutting lines 64, and the initiating terminals of the cutting lines 64 can be disposed at a same side and adjacent to each other, to respectively form the first convolution 65 and the second convolution 66. By the same token, after pulling out the first convolution 65 and the second convolution 66, the main body can form the tri-dimensional decoration.

[0032] Figures 13 and 14 respectively show an embodiment of the present invention, wherein the outer edge portion 70 can be designed, according to user's requirement, to desired outer configuration and shape, such as pigeon-like configuration in figure 13, or snowflake configuration in figure 14. Also, the inner edge portion 71 can also be designed, according to user's requirement, to have two different cutting lines 72 in different embodiments, such as ellipse cutting lines in figure 13, or hexagon cutting lines in figure 14.

[0033] Figure 15 show an embodiment of the present invention, wherein the inner edge portion 81 of the main body 80 could have two cutting lines 82 of circular shape as a whole, the cutting lines 82 can be designed to be different curves or configurations according to user's requirement, such as wave shaped illustrated by figure 15, or triangular shaped, or continuous lines such as teeth shaped.

[0034] Moreover, at least an ornament element, such as, small bell, color balloon, or etc, could be disposed in the first convolution and the second convolution of the tri-dimensional decoration, for further increasing the variability of the present decoration.

[0035] The above description is given by way of example, and not limitation. Given the above disclosure, one skilled in the art could devise variations that are within the scope of the invention as claimed including configurations ways of the recessed portions and materials and/or designs of the attaching structures. Thus, the scope of the claims is not to be limited by the illustrated embodiments.

Claims

1. A decoration comprising:

a shapable main body (10, 30, 50, 60, 80) made of metal, the main body (10, 30, 50, 60, 80) forming an outer edge portion (11, 31, 52, 62, 70) and an inner edge portion (12, 53, 71, 81), the outer edge portion (11, 31, 52, 62, 70) being formed around a periphery of the inner edge portion (12, 53, 71, 81) the inner edge portion (12, 53, 71, 81) having two disconnected coil cutting lines (13, 32, 54, 64, 72, 82), the cutting lines (13, 32, 54, 64, 72, 82) respectively form an initiating terminal adjacent to the outer edge portion (11, 31, 52, 62, 70), and the cutting lines (13, 32, 54, 64, 72, 82) wrapping around along

the main body (10, 30, 50, 60, 80), and the cutting lines (13, 32, 54, 64, 72, 82) equidistantly winding to a centre of the main body (10, 30, 50, 60, 80) and connecting with each other, the inner edge portion (12, 53, 71, 81) separately forms mutually corresponded first convolution (14, 33, 55, 65) and second convolution (15, 34, 56, 66) by the cutting lines (13, 32, 54, 64, 72, 82), initiating terminals of the first convolution (14, 33, 55, 65) and the second convolution (15, 34, 56, 66) respectively locating at adjacent sides of the cutting lines (13, 32, 54, 64, 72, 82) and respectively connecting to the outer edge portion (11, 31, 52, 62, 70).

2. The decoration as claimed in claim 1, wherein the initiating terminals of the cutting lines (13, 32, 54, 82) are disposed adjacent to opposite ends of the outer edge portion (11, 31, 52).

3. The decoration as claimed in claim 1, wherein the initiating terminals of the cutting lines (64, 72) are disposed to adjacent positions.

4. The decoration as claimed in claim 1, wherein the outer edge portion (11, 52) of the main body (10, 50) has a combining element (20, 51).

5. The decoration as claimed in claim 4, wherein the combining element (20) is a sheet body, and the combining element is fixed to the outer edge portion (11) of the main body (10).

6. The decoration as claimed in claim 4, wherein the combining element (51) is integrally formed with the outer edge portion (52) from a single piece.

7. The decoration as claimed in claim 4, wherein the combining element (20, 51) has a perforation (21, 510).

8. The decoration as claimed in claim 1, wherein the outer edge portion (11, 31, 52, 62, 70) of the main body (10, 30, 50, 60, 80) is disposed to a configuration of arbitrary shape.

9. The decoration as claimed in claim 1, wherein the cutting lines (13, 32, 54, 72) of the main body (10, 30, 50, 70). are actually mutual equidistant coil lines.

10. The decoration as claimed in claim 1, wherein the cutting lines of the main body (80) are disposed to be different curves or configurations (82).

11. A decoration as claimed in claim 1, wherein the first convolution (14, 33, 55, 65) and the second convolution (15, 34, 56, 66) of the decoration being respectively pulled from the main body (10, 30, 50, 60, 80) outwardly toward opposite sides of the main body (10, 30, 50, 60, 80) for tensile position, making the first convolution (14, 33, 55, 65) and the second convolution (15, 34, 56, 66) respectively form tri-dimensional conical revolutions facing to different directions.

12. The decoration as claimed in claim 1, wherein the main body (10, 30, 50, 60, 80) has at least an ornament element disposed in the first convolution (14, 33, 55, 65) and the second convolution (15, 34, 56, 66) of the tri-dimensional decoration.

Patentansprüche

1. Dekoration umfassend:

einen formbaren Hauptkörper (10, 30, 50, 60, 80), der aus Metall gefertigt ist, wobei der Hauptkörper (10, 30, 50, 60, 80) einen äußeren Randteil (11, 31, 42, 62, 70) und einen inneren Randteil (12, 53, 71, 81) ausbildet, wobei der äußere Randteil (11, 31, 52, 62, 70) um einen Randbereich des inneren Randteils (12, 53, 71, 81) herum ausgebildet ist, wobei der innere Randteil (12, 53, 71, 81) zwei nicht verbundene wendelartige Schnittlinien (13, 32, 54, 64, 72, 82) umfasst, wobei die Schnittlinien (13, 32, 54, 64, 72, 82) jeweils benachbart zu dem äußeren Randteil (11, 31, 52, 62, 70) ein Anfangsstück ausbilden, und wobei die Schnittlinien (13, 32, 54, 64, 72, 82) sich entlang des Hauptkörpers (10, 30, 50, 60, 80) herum wickeln, und wobei die Schnittlinien (13, 42, 54, 64, 72, 82) sich äquidistant zu einer Mitte des Hauptkörpers (10, 30, 50, 60, 80) schneckenförmig hin winden und sich miteinander verbinden, wobei der innere Randteil (12, 53, 71, 81) separat durch die Schnittlinien (13, 32, 54, 64, 72, 82) gegenseitig entsprechende erste (14, 33, 55, 65) und zweite Windungen (15, 34, 46, 66) ausbildet, wobei die Anfangsstücke der ersten Windung (14, 33, 55, 65) und der zweiten Windung (15, 34, 56, 66) jeweils an benachbarten Seiten der Schnittlinien (13, 32, 54, 64, 72, 82) angeordnet sind und jeweils mit dem äußeren Randteil (11, 31, 52, 62, 70) verbunden sind.

2. Dekoration nach Anspruch 1, wobei die Anfangsstücke der Schnittlinien (13, 32, 54, 82) benachbart zu den entgegen gesetzten Enden des äußeren Randteils (11, 31, 52) angeordnet sind.

3. Dekoration nach Anspruch 1, wobei die Anfangsstücke der Schnittlinien (64, 72) an benachbarten Positionen angeordnet sind.

4. Dekoration nach Anspruch 1, wobei der äußere Randteil (11,52) des Hauptkörpers (10, 50) ein verbindendes Element (20, 51) umfasst.

5. Dekoration nach Anspruch 4, wobei das verbindende Element (20) ein Blattkörper ist, und wobei das verbindende Element an dem äußeren Randteil (11) des Hauptkörpers (10) befestigt ist.

6. Dekoration nach Anspruch 4, wobei das verbindende Element (51) integral mit dem äußeren Randteil (52) aus einem einzigen Stück geformt ist.

7. Dekoration nach Anspruch 4, wobei das verbindende Element (20, 51) eine Perforation (21, 510) hat.

8. Dekoration nach Anspruch 1, wobei der äußere Randteil (11, 31, 52, 62, 70) des Hauptkörpers (10, 30, 50, 60, 80) in einer Anordnung von beliebiger Form angeordnet ist.

9. Dekoration nach Anspruch 1, wobei die Schnittlinien (13, 32, 54, 72) des Hauptkörpers (10, 30, 50, 70) tatsächlich gegenseitig äquidistante Spirallinien sind.

10. Dekoration nach Anspruch 1, wobei die Schnittlinien des Hauptkörpers (80) als unterschiedliche Kurven oder Anordnungen (82) angeordnet sind.

11. Dekoration nach Anspruch 1, wobei die erste Windung (14, 33 ,55 ,65) und die zweite Windung (15, 34, 56, 66) der Dekoration jeweils aus dem Hauptkörper (10, 30, 50, 60, 80) zu gegenüberliegenden Seiten des Hauptkörpers (10, 30, 50, 60, 80) in eine gespannte Position herausgezogen werden, um jeweils die Ausformung der ersten Windung (14, 33, 55, 65) und der zweiten Windung (15, 34, 56, 66) als dreidimensionale konische spiralartige Körper, die in verschiedene Richtungen gerichtet sind, zu bewirken.

12. Dekoration nach Anspruch 1, wobei der Hauptkörper (10, 30, 50, 60, 80) mindestens ein verziertes Element umfasst, das in der ersten Windung (14, 33, 55, 62) und der zweiten Windung (15,34 ,56 ,66) der dreidimensionalen Dekoration angeordnet ist.

Revendications

1. Décoration comprenant :

un corps principal façonnable (10, 30, 50, 60, 80) fait de métal, le corps principal (10, 30, 50, 60, 80) formant une portion de bord extérieur (11, 31, 52, 62, 70) et une portion de bord intérieur (12, 53 71, 81), la portion de bord extérieur (11, 31, 52, 62, 70) étant formée autour d'une périphérie de la portion de bord intérieur (12, 53 71, 81), la portion de bord intérieur (12, 53 71, 81) ayant deux lignes de coupe en spirale déconnectées (13, 32, 54, 64, 72, 82), les lignes de coupe (13, 32, 54, 64, 72, 82) formant respectivement un terminal de lancement adjacent à la portion de bord extérieur (11, 31, 52, 62, 70) et les lignes de coupe (13, 32, 54, 64, 72, 82) s'enveloppant le long du corps principal (10, 30, 50, 60, 80) et les lignes de coupe (13, 32, 54, 64, 72, 82) s'enroulant de manière équidistante vers un centre du corps principal (10, 30, 50, 60, 80) et se reliant l'une à l'autre, la portion de bord intérieur (12, 53, 71, 81) formant séparément une première convolution (14, 33, 55, 65) et une seconde convolution (15, 34, 56, 66) se correspondant mutuellement par les lignes de coupe (13, 32, 54, 64, 72, 82), les terminaux de lancement de la première convolution (14, 33, 55, 65) et de la seconde convolution (15, 34, 56, 66) étant respectivement situés sur des côtés adjacents des lignes de coupe (13, 32, 54, 64, 72, 82) et se reliant respectivement à la portion de bord extérieur (11, 31, 52, 62, 70).

2. Décoration selon la revendication 1 dans laquelle les terminaux de lancement des lignes de coupe (13, 32, 54, 64, 72, 82) sont placés adjacents aux extrémités opposées de la portion de bord extérieur (11, 31, 52).

3. Décoration selon la revendication 1 dans laquelle les terminaux de lancement des lignes de coupe (64, 72) sont placés à des positions adjacentes.

4. Décoration selon la revendication 1 dans laquelle la portion de bord extérieur (11, 52) du corps principal (10, 50) a un élément combinant (20, 51).

5. Décoration selon la revendication 4 dans laquelle l'élément combinant (20) est un corps en feuille et l'élément combinant est fixé à la portion de bord extérieur (11) du corps principal (10).

6. Décoration selon la revendication 4 dans laquelle l'élément combinant (51) est formé intégralement avec la portion de bord extérieur (52) en une seule pièce.

7. Décoration selon la revendication 4 dans laquelle l'élément combinant (20, 5l) a une perforation (21, 510).

8. Décoration selon la revendication 1 dans laquelle la portion de bord extérieur (11, 31, 52, 62, 70) du corps principal (10, 30, 50, 60, 80) est placée en une configuration de forme arbitraire.

9. Décoration selon la revendication 1 dans laquelle les lignes de coupe (13, 32, 54, 64, 72, 82) du corps principal (10, 30, 50, 60, 80) sont des lignes en spirale effectivement mutuelles équidistantes.

10. Décoration selon la revendication 1 dans laquelle les lignes de coupe du corps principal (80) sont placées pour être différentes courbes ou configurations (82).

11. Décoration selon la revendication 1 dans laquelle la première convolution (14, 33, 55, 65) et la seconde convolution (15, 34, 56, 66) de la décoration sont chacune tirée du corps principal (10, 30, 50, 60, 80) vers l'extérieur vers des côtés opposés du corps principal (10, 30, 50, 60, 80) pour une position de traction en faisant former à la première convolution (14, 33, 55, 65) et à la seconde convolution (15, 34, 56, 66) chacune des révolutions coniques tridimensionnelles faisant face à différentes directions.

12. Décoration selon la revendication 1 dans laquelle le corps principal (10, 30, 50, 60, 80) a au moins un élément d'ornement placé dans la première circonvolution (14, 33, 55, 65) et la seconde convolution (15, 34, 56, 66) de la décoration tridimensionnelle.

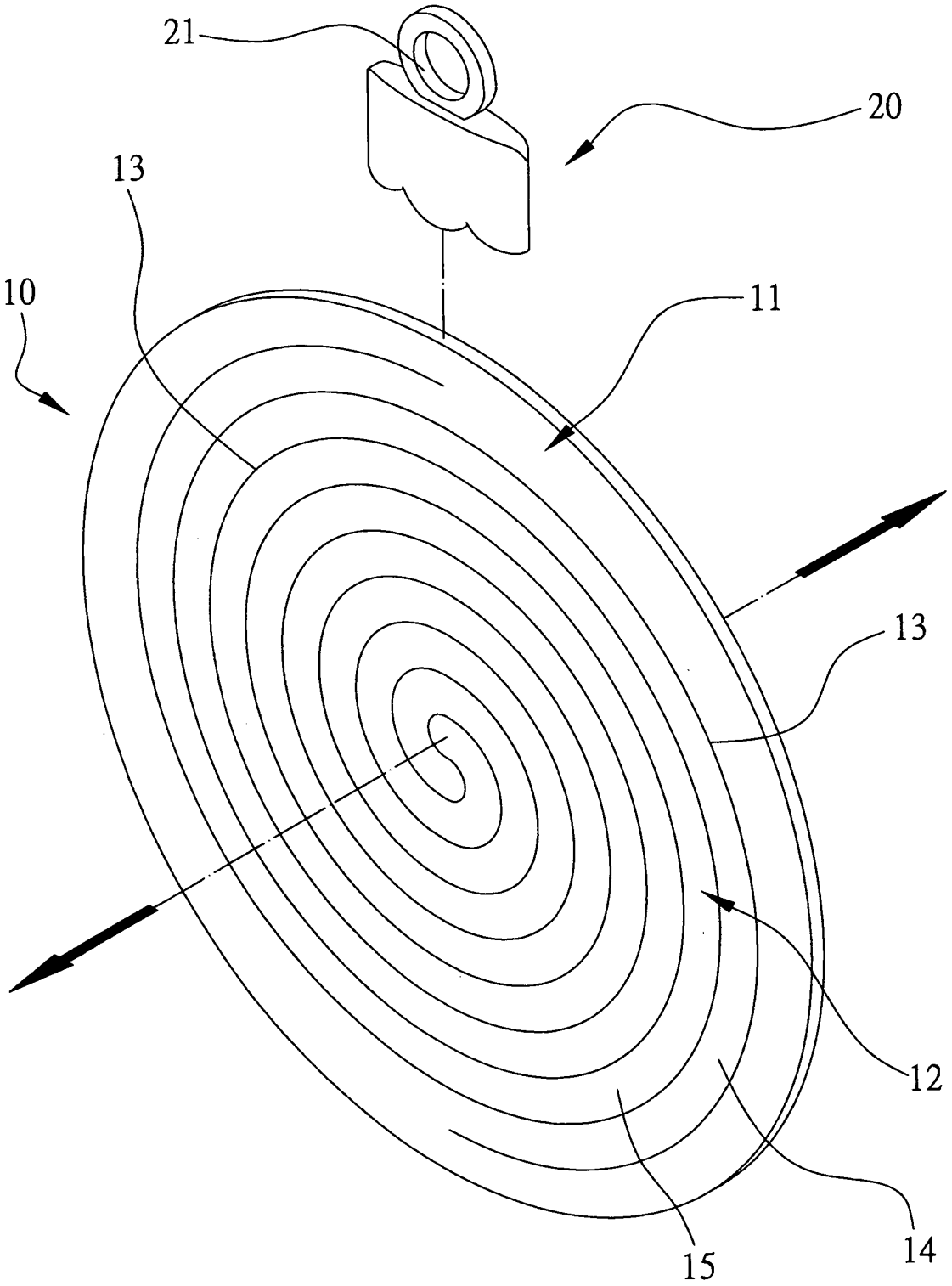


FIG. 1

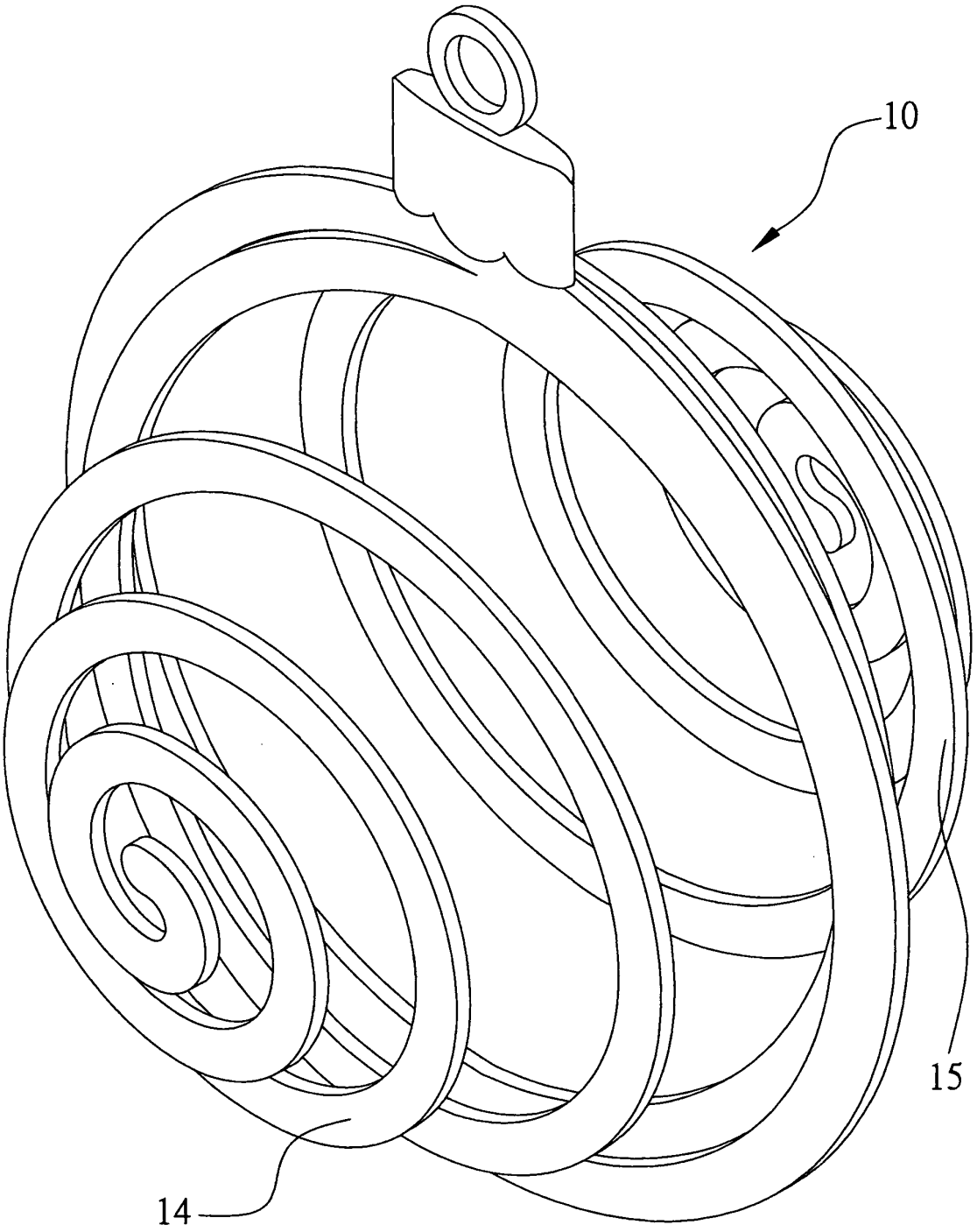


FIG. 2

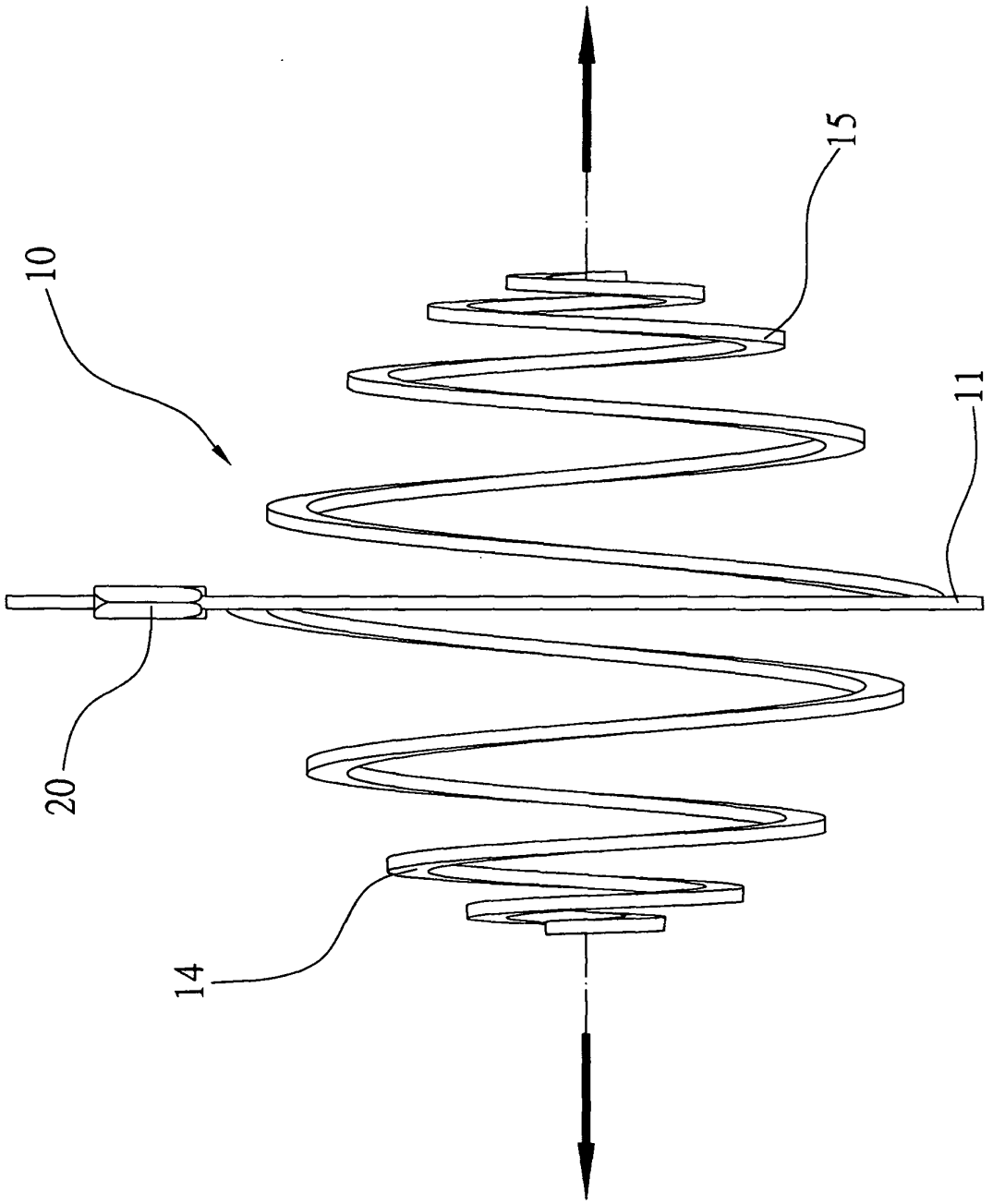


FIG. 3

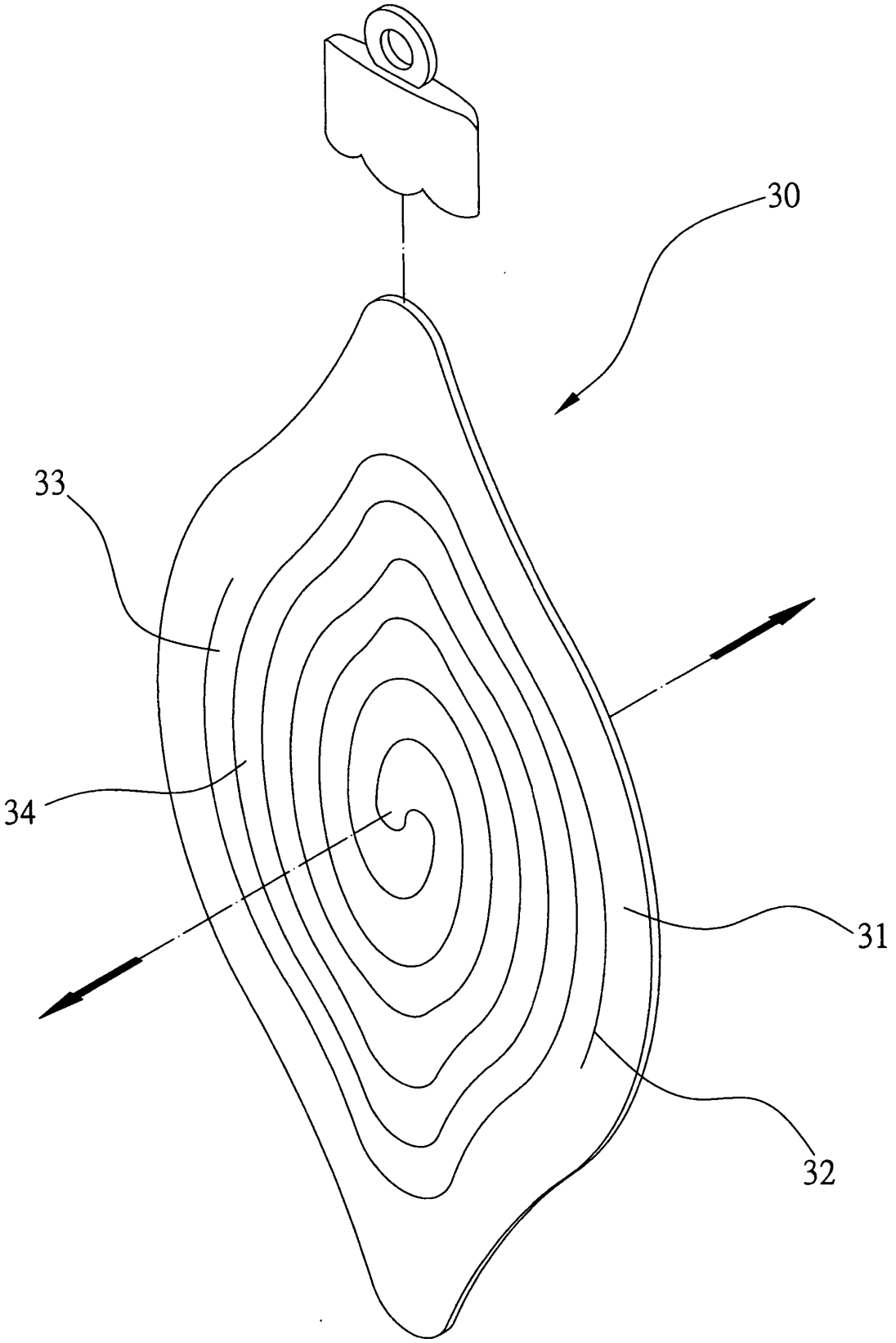


FIG. 4

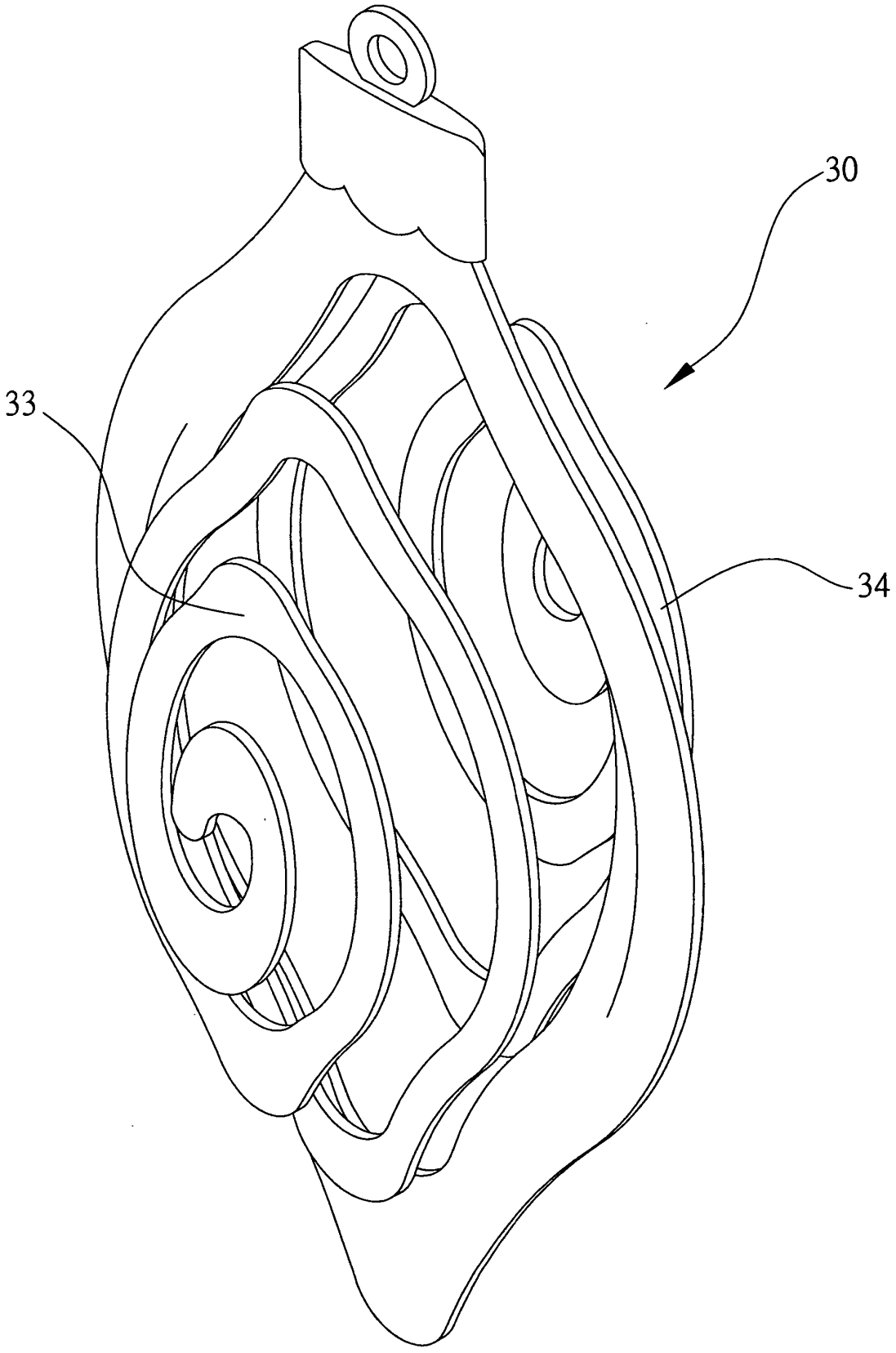


FIG. 5

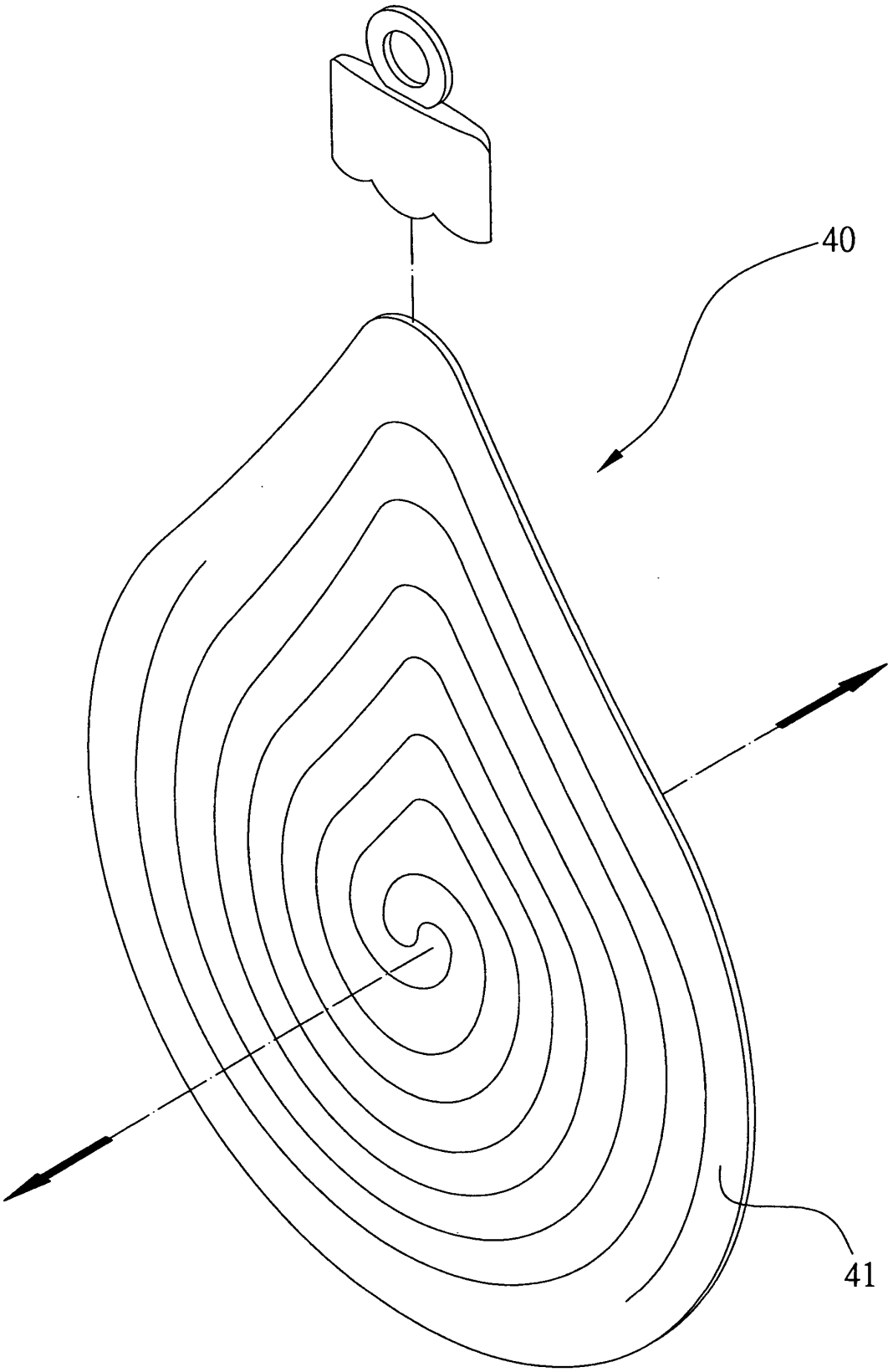


FIG. 6

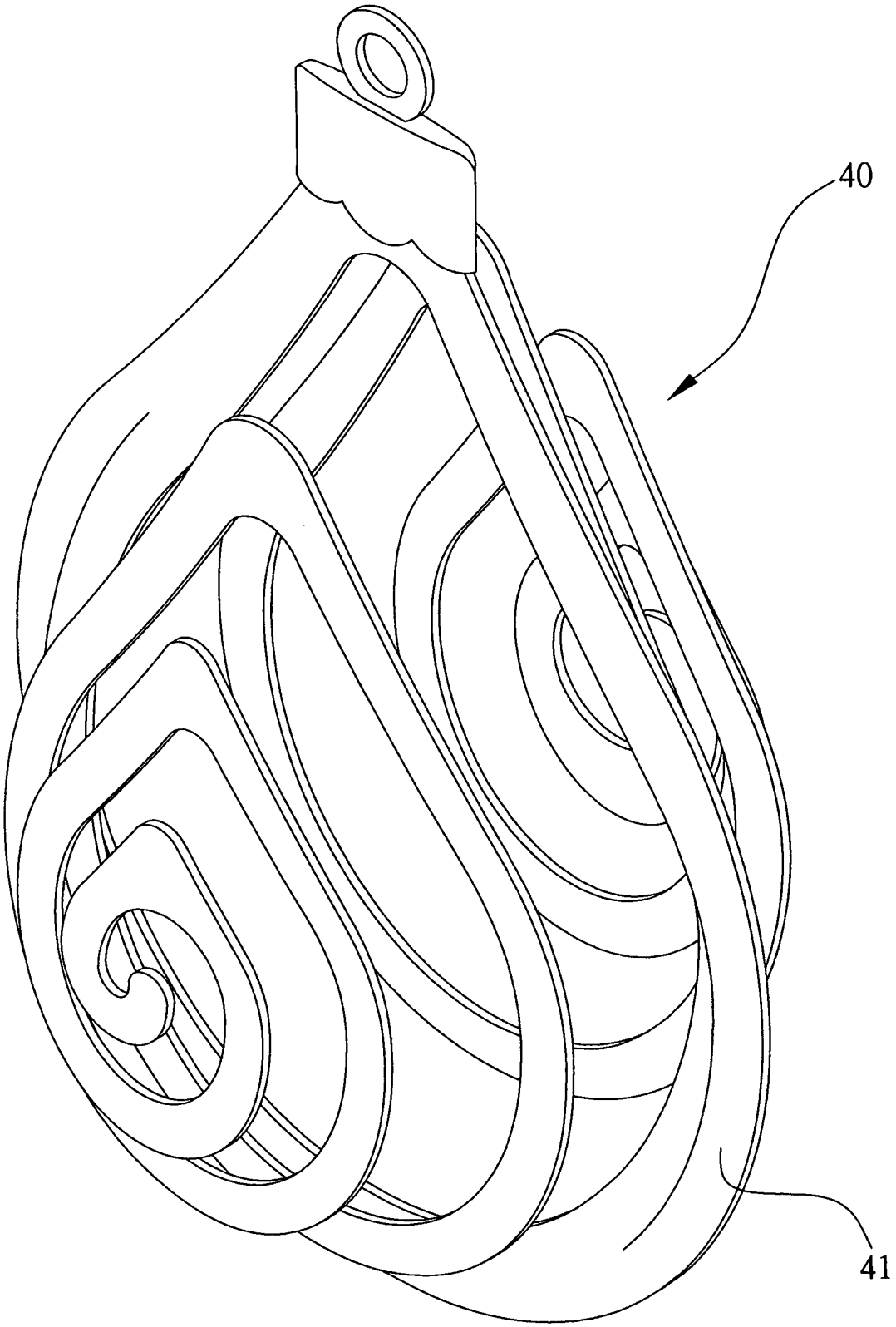


FIG. 7

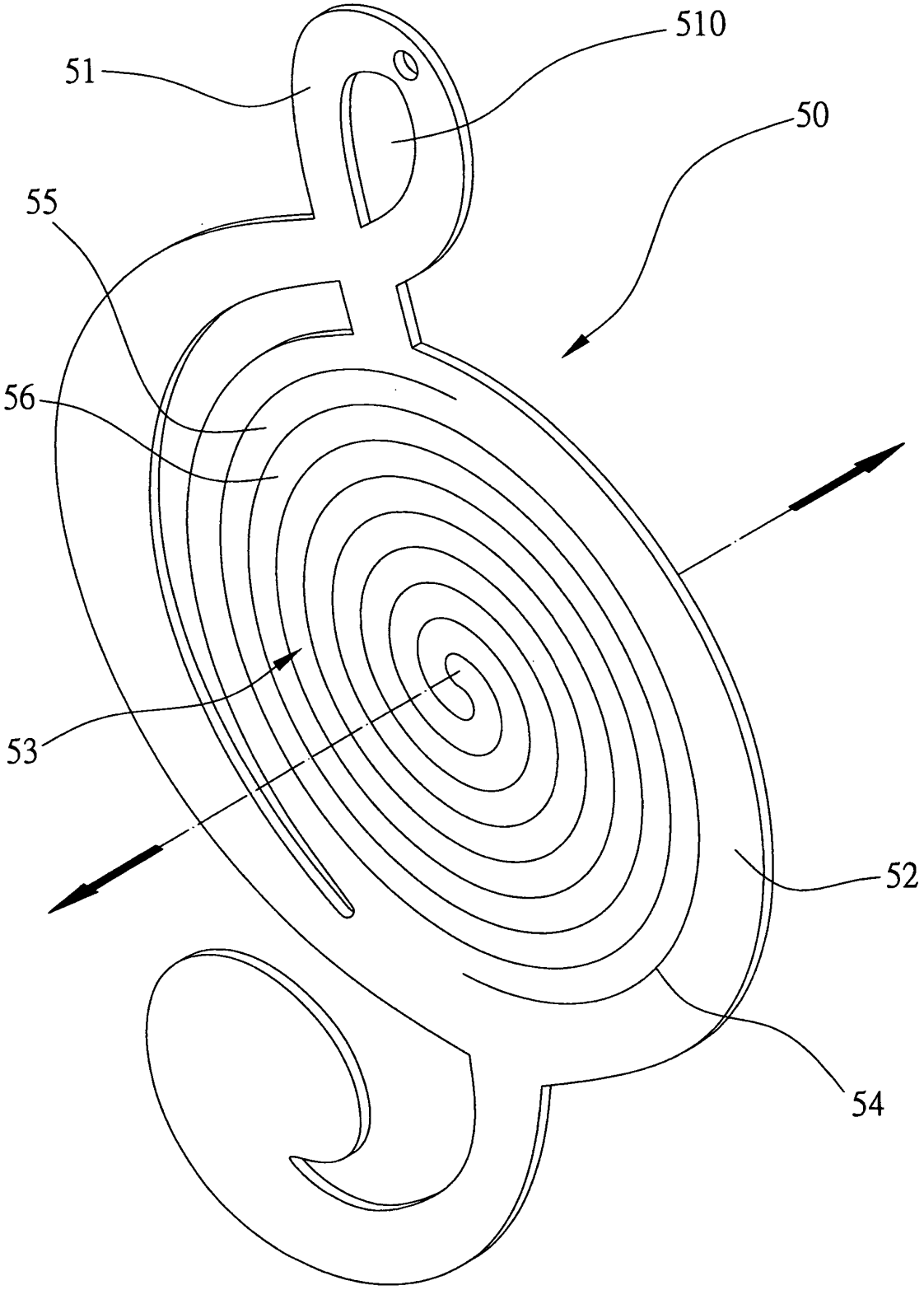


FIG. 8

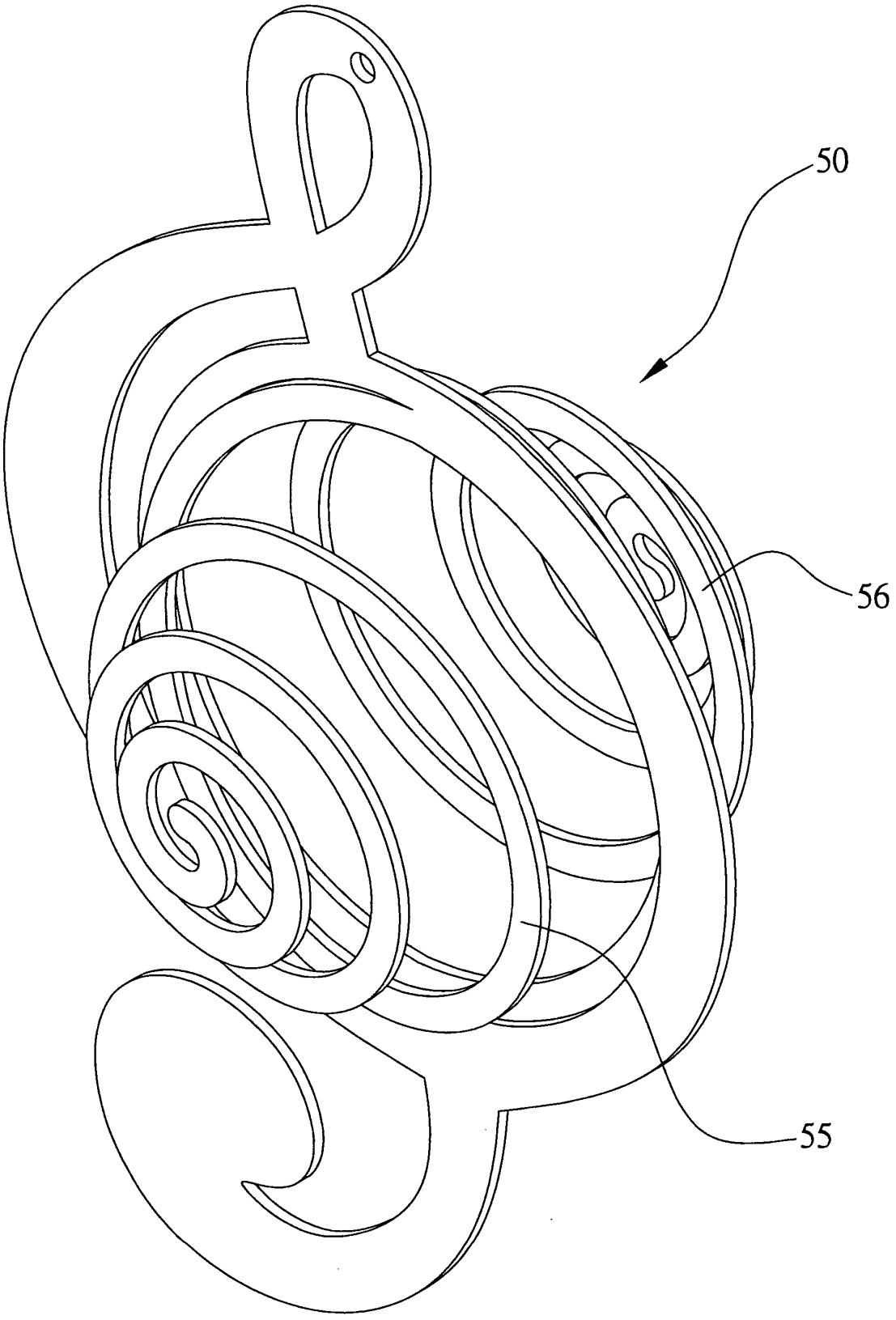


FIG. 9

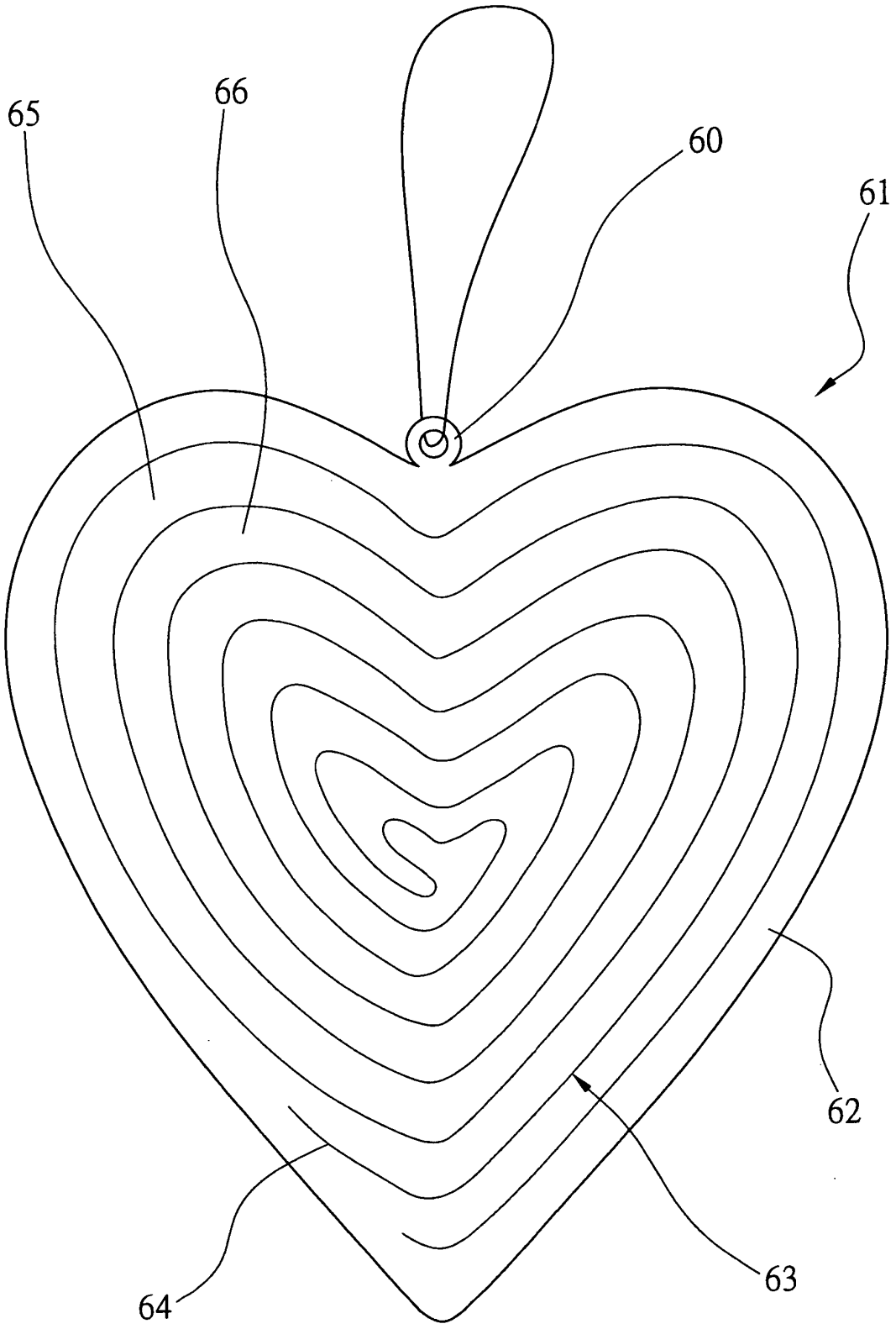


FIG. 10

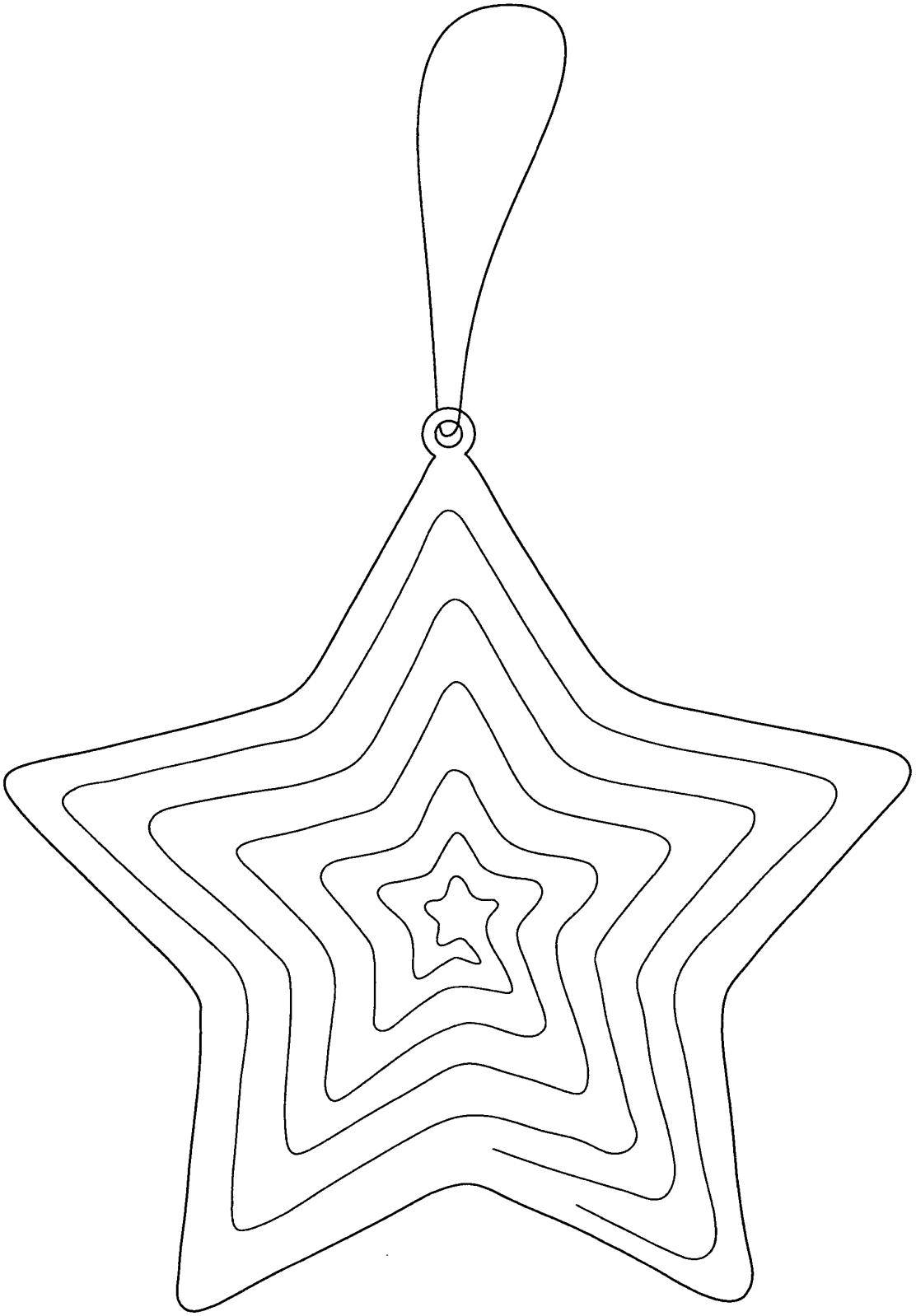


FIG. 11

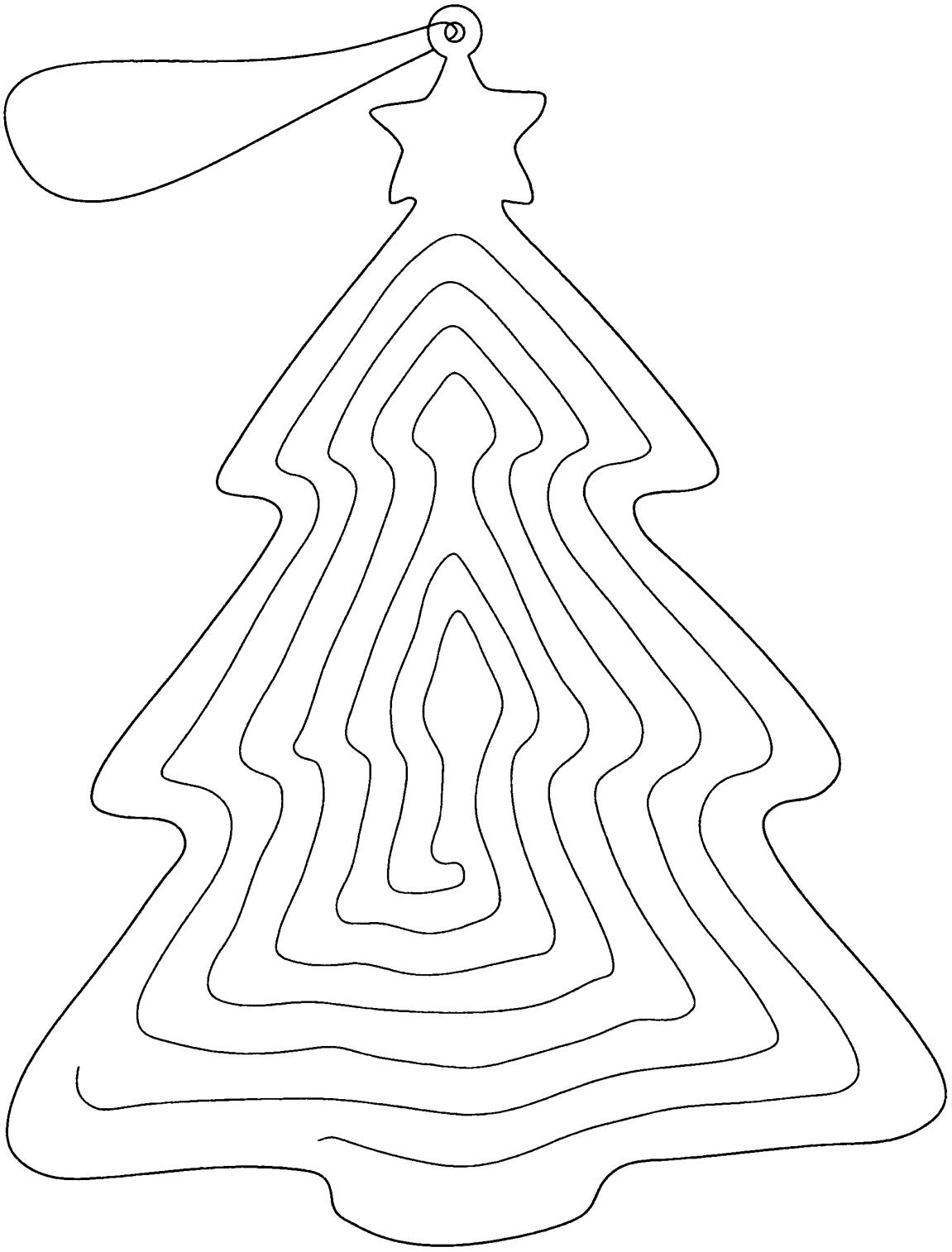


FIG. 12



FIG. 13

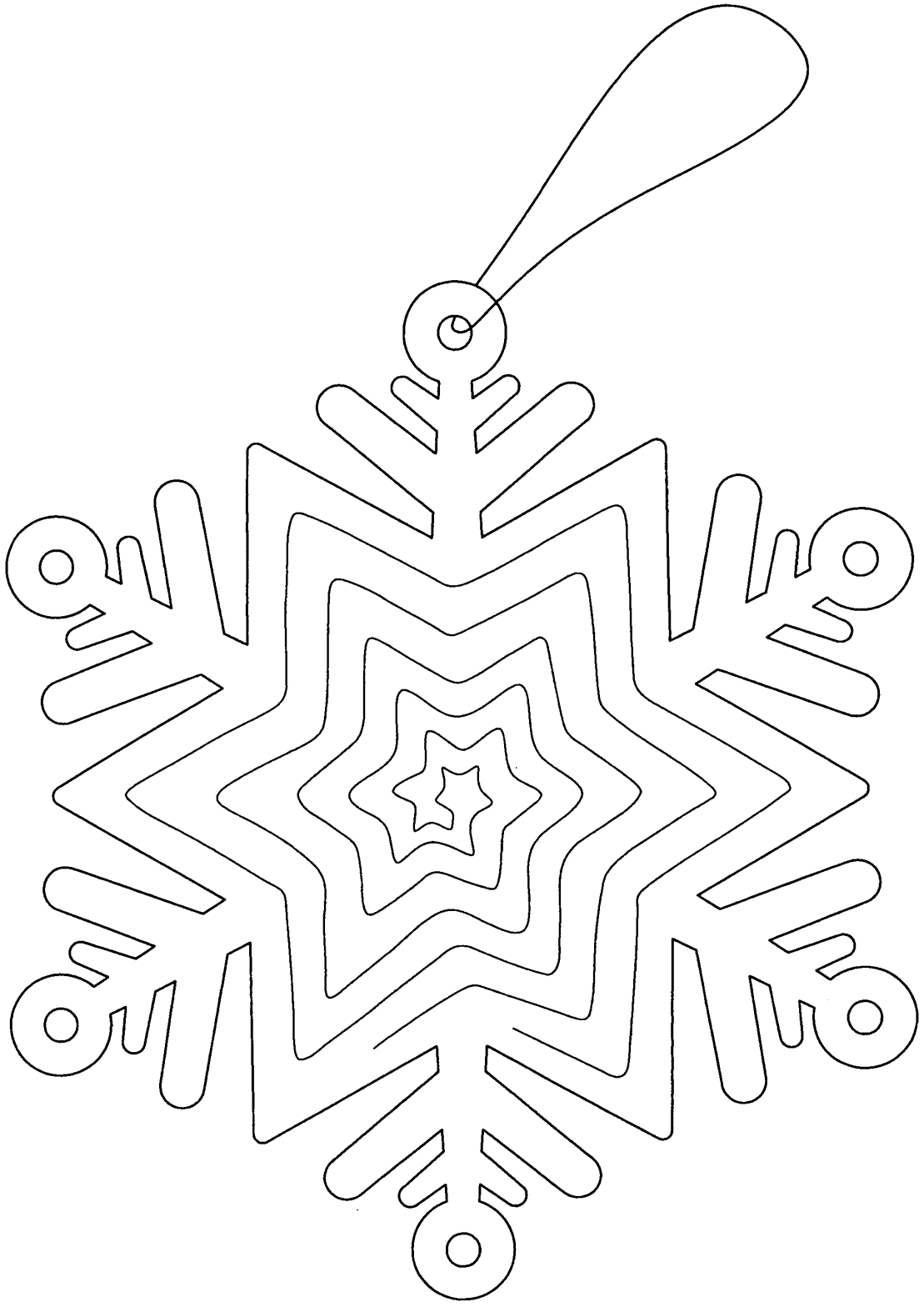


FIG. 14

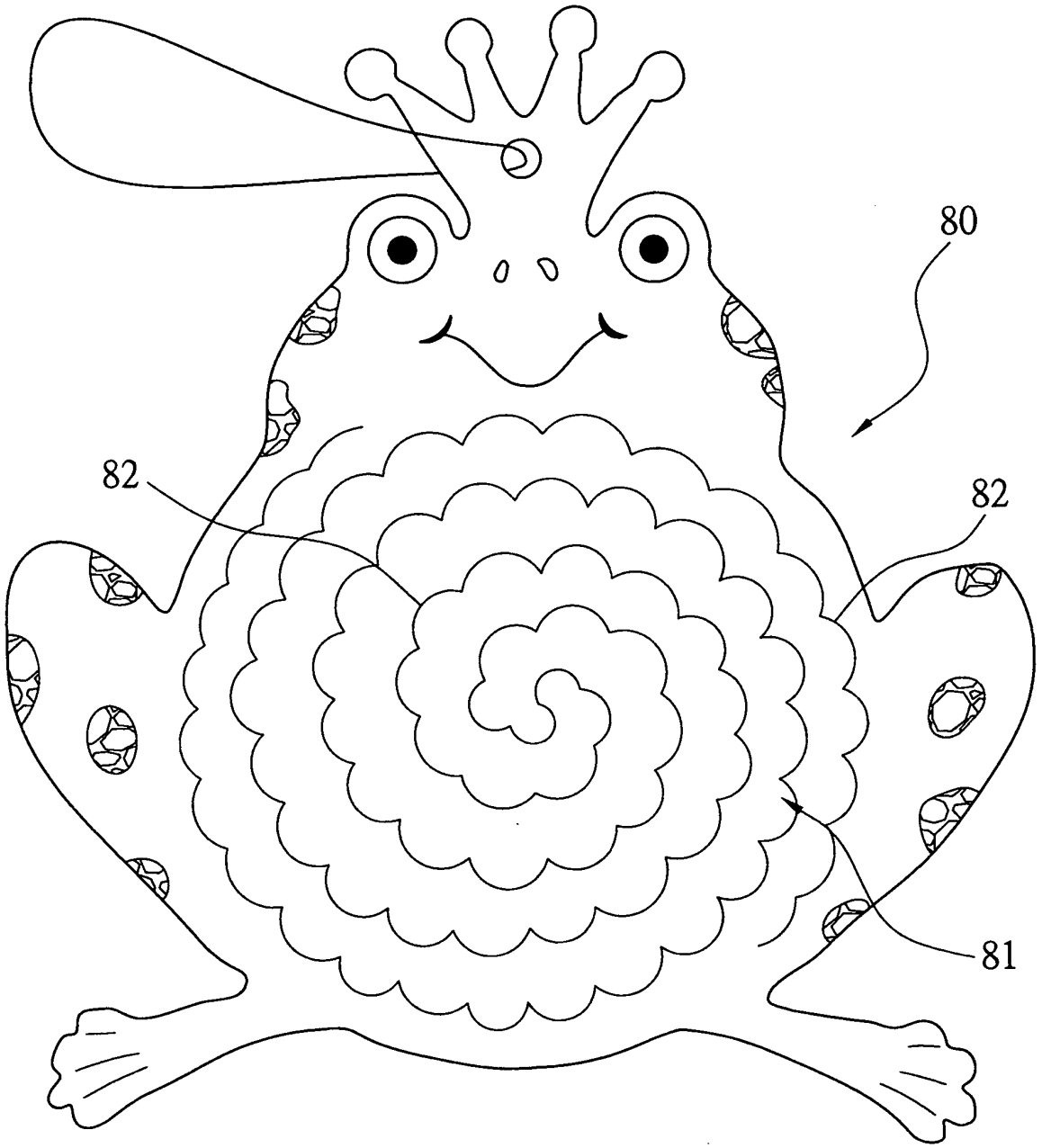


FIG. 15

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- AU 429675 B **[0004]**
- US 20030104167 A **[0005]**