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(54) **VOLATILE SUBSTANCE DIFFUSER**

DIFFUSOR FÜR FLÜCHTIGE SUBSTANZEN

DIFFUSEUR DE SUBSTANCE VOLATILE

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Description

[0001] The present invention relates to a volatile substance diffuser, the body of which is formed from a sheet provided with fold lines.

Background of the Invention

[0002] Volatile substance diffusers are used as air fresheners or insecticides, such that the volatile substances are diffused into the surrounding area, providing a fragrance.

[0003] In these diffusers, the volatile substances are contained in a reservoir, which is opened when the diffuser is used for the first time.

[0004] To sell the diffuser, it is usually placed in a suspended state in a display, and to that end a hole must be provided so as to allow the diffuser to hang. This is achieved by placing the diffuser inside a container, usually a plastic container, which houses the diffuser and is provided with a lug with this hole for hanging said container for display.

[0005] Placing the diffuser inside a container evidently raises the sale price of the diffuser, which is a drawback, taking into account that the price of diffusers of this type is lower, so any additional cost has a direct effect on the success of product sales.

[0006] US2007194368A1 discloses a disposable device for diffusion of volatile substances comprising a laminar element made of a flexible material adapted to be folded along a folding line, comprising at least a first part and a second part. Said first part has a deposit containing a product origin of volatile substances. The second part has a hook configuration with a lateral opening and a central groove that can be occupied by removable adhesive means.

[0007] Therefore, an objective of the present invention is to provide a volatile substance diffuser which prevents the use of a container housing said diffuser, with the subsequent savings in the sale price, and which likewise allows the diffuser to be hung in a point of sale display.

Description of the Invention

[0008] The mentioned drawbacks are solved with the volatile substance diffuser of the invention, while having other advantages that will be described below.

[0009] The volatile substance diffuser according to the present invention comprises a reservoir containing the volatile substances, and it is formed from a sheet provided with a plurality of fold lines, said sheet comprising:

- a first face on which said reservoir is fixed;
- a second face which supports the diffuser upright in a use position together with said first face; and
- a third face provided with a hole for hanging the diffuser.

[0010] As a result of this feature, it is the volatile substance diffuser itself that can be hung in a display, without having to use an independent container, with the subsequent savings in the cost of the volatile substance diffuser.

[0011] The faces of said sheet are advantageously folded in a storage position and unfolded in the use position.

[0012] Preferably, said sheet also comprises a fourth face, which also supports the diffuser upright in a use position.

[0013] The sheet may also comprise a coverface, which is folded over the third face in the storage position.

[0014] Said first, second, and fourth faces are placed next to one another, and said third face is separable from the rest of the sheet when the diffuser is placed in the use position. Furthermore, said cover face is attached by means of a fold line to only said third face.

[0015] Advantageously, said reservoir comprises a separable sealing band which is removed before the first use of the diffuser, and said sheet is made of cardboard.

Brief Description of the Drawings

[0016] To better understand what has been set forth, drawings in which a practical embodiment is schematically shown only by way of non-limiting example are attached.

Figure 1 is a perspective view of the unfolded sheet forming the volatile substance diffuser of the present invention, according to an example not forming part of the present invention;

Figure 2 is a perspective view of the volatile substance diffuser of the present invention according to the example, in its use position;

Figure 3 is a perspective view of the volatile substance diffuser of the present invention according to the example, in its storage position;

Figure 4 is a perspective view of the unfolded sheet forming the volatile substance diffuser of the present invention, according to an embodiment;

Figure 5 is a perspective view of the volatile substance diffuser of the present invention according to the embodiment, in its use position; and

Figure 6 is a perspective view of the volatile substance diffuser of the present invention according to the embodiment, in its storage position.

Description of a Preferred Embodiment

[0017] Figures 1 to 3 show an example of a diffuser.

[0018] The volatile substance diffuser is formed from

a sheet 11, for example made of cardboard, comprising a plurality of fold lines and a reservoir 10 containing the volatile substances.

[0019] The diffuser can be placed in a storage position (depicted in Figure 3) and a use position (depicted in Figure 2), as will be described below.

[0020] According to this example, the sheet 11 comprises a first face 1 on which the reservoir 10 is fixed, a second face 2 which serves to place the diffuser upright in its use position, a third face 3 provided with a hole 12 which serves to hang the diffuser for display, a fourth face 4 which also serves to place the diffuser upright in its use position, and a base face 5 which is used as a base in its use position.

[0021] Furthermore, the sheet 11 also comprises a pair of flaps 13, one being arranged on the first face 1 and one on the second face 2 for being coupled to one another to keep the diffuser stable in the use position, as shown in Figure 2.

[0022] According to this example depicted in Figure 1, said base face 5 is rectangular-shaped, although it could also be square-shaped, the first to fourth faces 1 to 4 extending from the sides of said base face 5.

[0023] The diffuser is sold in its storage position, depicted in Figure 3, in which the first to fourth faces 1 to 4 are folded over the base face 5. In this position, the third face 3 can be unfolded so as to allow diffuser to be hung from a display.

[0024] For use, the first to fourth faces 1 to 4 are unfolded and are placed in their storage position, as shown in Figure 2, and a sealing band 14 is removed from the reservoir 10 so as to allow diffusion of the volatile substances.

[0025] Figures 4 to 6 show an embodiment of the volatile substance diffuser according to the present invention. For the sake of simplicity and clarity, the same reference numbers are used to indicate the same components as in the example. Furthermore, the description of the elements performing the same function as in the preceding embodiment will not be repeated in detail.

[0026] In this embodiment, the diffuser is also formed from a sheet 11 and a volatile substance reservoir 10.

[0027] Said sheet 11 comprises a first face 1 on which the reservoir 10 is fixed, a second face 2 which serves to place the diffuser upright in its use position, a third face 3 provided with a hole 12 which serves to place the diffuser for display, a fourth face 4 which also serves to place the diffuser upright in its use position, and a cover face 6 which is used to cover the third face 3 in the storage position of the diffuser.

[0028] This cover face 6 also preferably comprises a hole 12 for hanging the diffuser, as can be seen in Figure 4, and this cover face 6 and the fourth face 4 may also comprise additional holes 15 for viewing the content of the reservoir 10 in the use position of the diffuser.

[0029] The arrangement of the faces of the sheet 11 in this embodiment is different from the example. As can be seen in Figure 4, the first 1 face, second face 2, and

the fourth face 4 are placed one after the other, while the third face 3 is separably attached to the fourth face 4 and the cover face 6 is attached to the third face 3.

[0030] The main difference between this embodiment and the example is that the third face 3 is separated from the fourth face 4 before the first use of the diffuser, and accordingly the cover face 6 as well. To that end, the fold line which joins the third face 3 with the fourth face 4 is provided with a plurality of perforations to make this separation easier.

[0031] Once this third face 3 has been removed, the diffuser is placed in the use position as shown in Figure 5, defining a triangular prism.

[0032] Although reference has been made to a specific embodiment of the invention, it is obvious for one skilled in the art that the volatile substance diffuser described is susceptible to a number of variations and modifications, and that all the mentioned details can be replaced with other technically equivalent details without departing from the scope of protection defined by the attached claims.

Claims

1. Volatile substance diffuser, comprising a reservoir (10) containing the volatile substances, being formed from a sheet (11) provided with a plurality of fold lines, said sheet comprising (11):

- a first face (1) on which said reservoir (10) is fixed;
- a second face (2) which supports the diffuser upright in a use position together with said first face (1); and
- a third face (3) provided with a hole (12) for hanging the diffuser,

wherein the faces of said sheet (11) can be folded in a storage position and unfolded in the use position,

characterized in that the sheet (11) also comprises a cover face (6), which is folded over the third face (3) in the storage position.

2. Volatile substance diffuser according to claim 1, wherein said sheet (11) also comprises a fourth face (4), which also supports the diffuser upright in a use position.

3. Volatile substance diffuser according to claim 2, wherein said first, second, and fourth faces (1, 2, 4) are placed next to one another.

4. Volatile substance diffuser according to claim 1, wherein said third face (3) is separable from the rest of the sheet (11) when the diffuser is placed in the use position.

5. Volatile substance diffuser according to claim 1, wherein said cover face (6) is attached only to said third face (3).
6. Volatile substance diffuser according to claim 1, wherein said reservoir (10) comprises a separable sealing band (14) which is removed before the first use of the diffuser.
7. Volatile substance diffuser according to claim 1, wherein said sheet (11) is made of cardboard.

Patentansprüche

1. Diffusor für flüchtige Substanzen, der ein die flüchtigen Substanzen enthaltendes Reservoir (10) umfasst und aus einem Blatt (11) gebildet ist, das mit einer Vielzahl von Falllinien versehen ist, wobei das Blatt umfasst (11):
- eine erste Fläche (1), auf der das Reservoir (10) befestigt ist;
 - eine zweite Fläche (2), die zusammen mit der ersten Fläche (1) den Diffusor aufrecht in einer Gebrauchsposition stützt; und
 - eine dritte Fläche (3), die mit einem Loch (12) zum Aufhängen des Diffusors versehen ist,
- wobei die Flächen des Blattes (11) in einer Aufbewahrungsposition gefaltet und in der Gebrauchsposition entfaltet sein können, **dadurch gekennzeichnet, dass** das Blatt (11) außerdem eine Abdeckfläche (6) umfasst, die in der Aufbewahrungsposition über die dritte Fläche (3) gefaltet ist.
2. Diffusor für flüchtige Substanzen nach Anspruch 1, wobei das Blatt (11) außerdem eine vierte Fläche (4) umfasst, die den Diffusor ebenfalls aufrecht in einer Gebrauchsposition stützt.
3. Diffusor für flüchtige Substanzen nach Anspruch 2, wobei die erste, zweite und vierte Fläche (1, 2, 4) nebeneinander angeordnet sind.
4. Diffusor für flüchtige Substanzen nach Anspruch 1, wobei die dritte Fläche (3) vom Rest des Blattes (11) abtrennbar ist, wenn der Diffusor in der Gebrauchsposition angeordnet ist.
5. Diffusor für flüchtige Substanzen nach Anspruch 1, wobei die Abdeckfläche (6) nur an der dritten Fläche (3) befestigt ist.
6. Diffusor für flüchtige Substanzen nach Anspruch 1, wobei das Reservoir (10) ein abtrennbares Versiegelungsband (14) umfasst, das vor der ersten Ver-

wendung des Diffusors entfernt wird.

7. Diffusor für flüchtige Substanzen nach Anspruch 1, wobei das Blatt (11) aus Karton besteht.

Revendications

1. Diffuseur de substances volatiles, comprenant un réservoir (10) qui contient les substances volatiles, lequel est formé à partir d'une feuille (11) qui est munie d'une pluralité de lignes de pliage, ladite feuille (11) comprenant :
- une première face (1) sur laquelle ledit réservoir (10) est fixé ;
 - une deuxième face (2) qui supporte le diffuseur verticalement dans une position d'utilisation en association avec ladite première face (1) ; et
 - une troisième face (3) qui est munie d'un trou (12) pour suspendre le diffuseur,
- dans lequel les faces de ladite feuille (11) peuvent être pliées dans une position de stockage et dépliées dans la position d'utilisation, **caractérisé en ce que** la feuille (11) comprend également une face de couverture (6), laquelle est pliée au-dessus de la troisième face (3) dans la position de stockage.
2. Diffuseur de substances volatiles selon la revendication 1, dans lequel ladite feuille (11) comprend également une quatrième face (4), laquelle supporte également le diffuseur verticalement dans une position d'utilisation.
3. Diffuseur de substances volatiles selon la revendication 2, dans lequel lesdites première, deuxième et quatrième faces (1, 2, 4) sont placées de façon contiguë les unes par rapport aux autres.
4. Diffuseur de substances volatiles selon la revendication 1, dans lequel ladite troisième face (3) peut être séparée du reste de la feuille (11) lorsque le diffuseur est placé dans la position d'utilisation.
5. Diffuseur de substances volatiles selon la revendication 1, dans lequel ladite face de couverture (6) est liée seulement à ladite troisième face (3).
6. Diffuseur de substances volatiles selon la revendication 1, dans lequel ledit réservoir (10) comprend une bande d'étanchéité séparable (14) qui est enlevée avant la première utilisation du diffuseur.
7. Diffuseur de substances volatiles selon la revendication 1, dans lequel ladite feuille (11) est constituée

par du carton.

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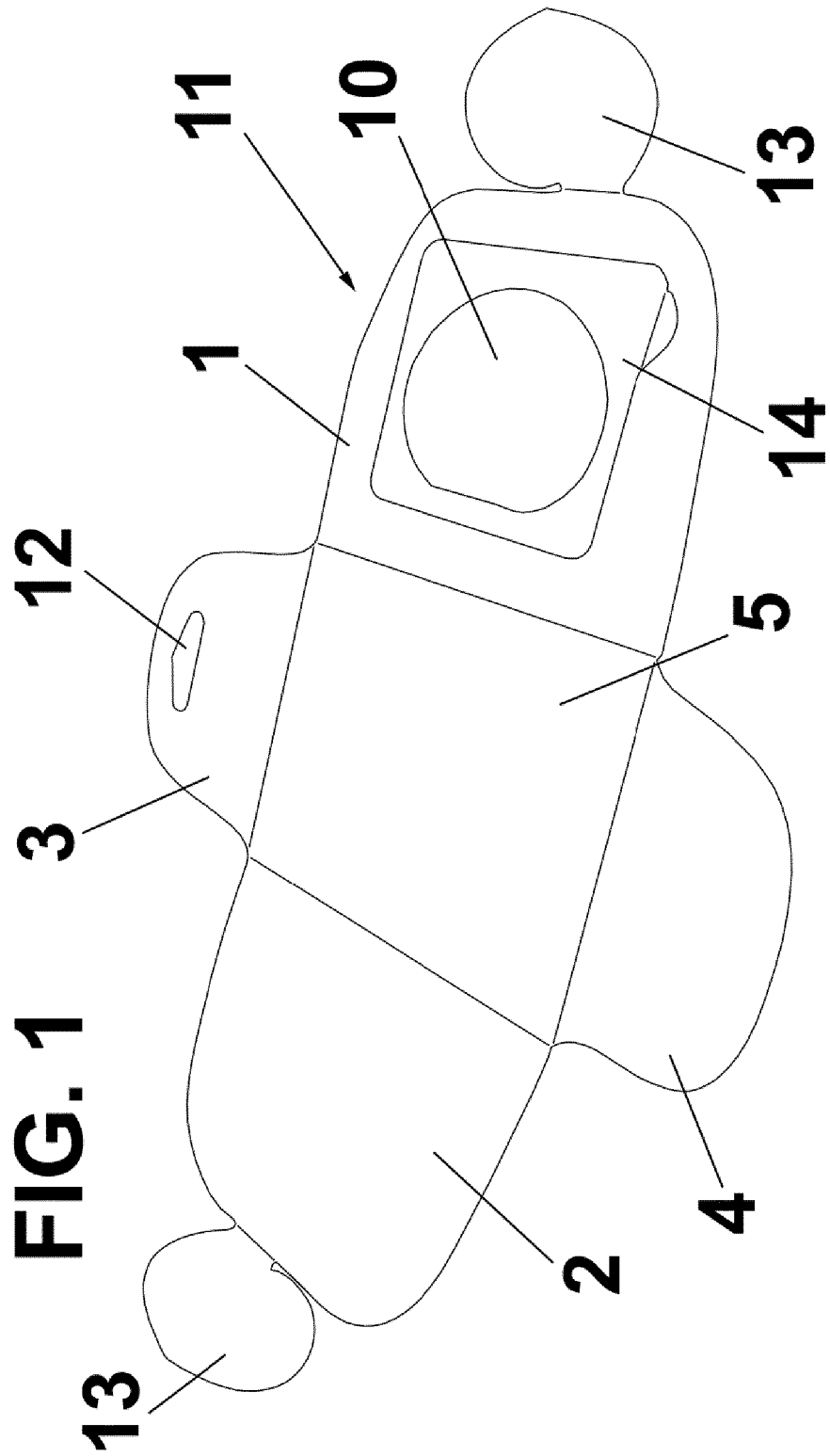


FIG. 2

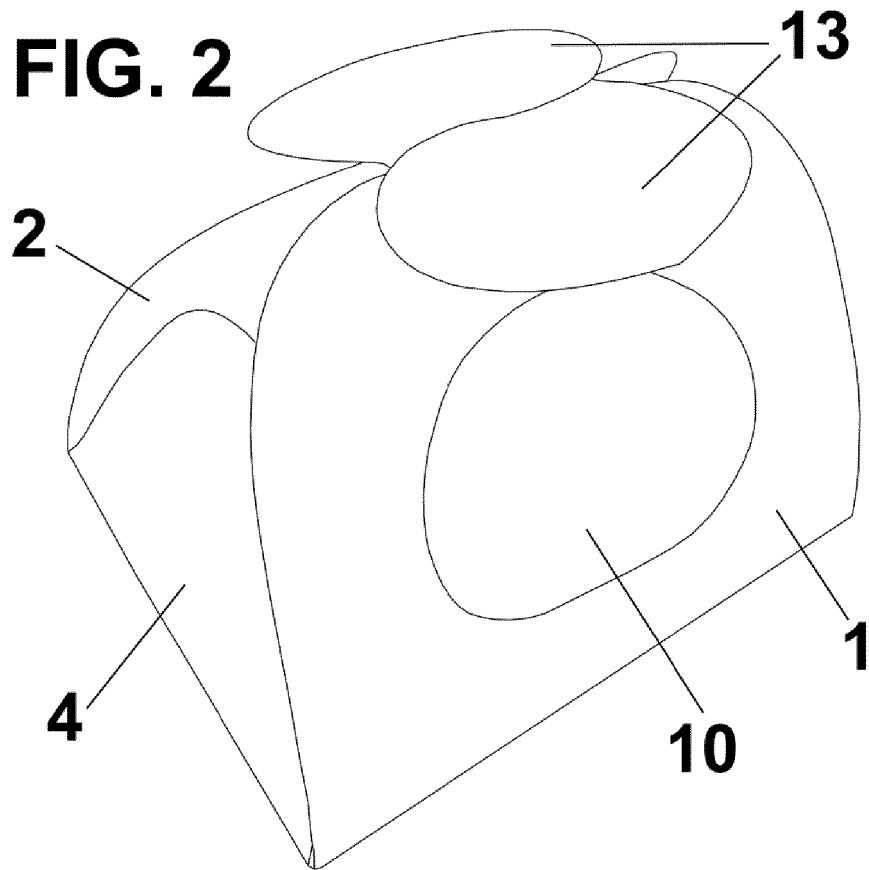
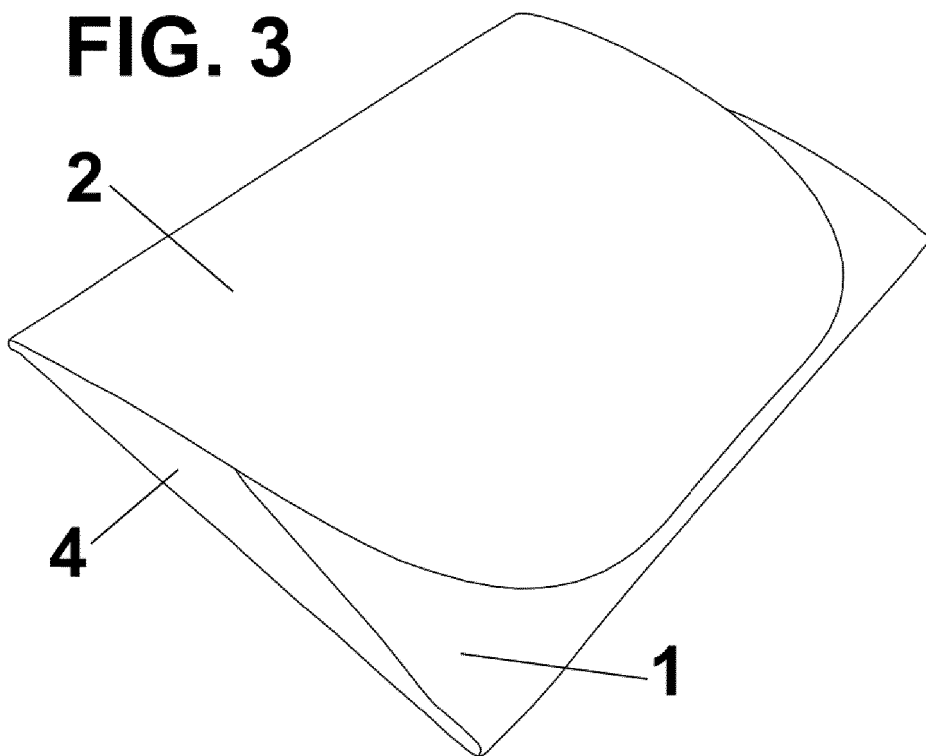
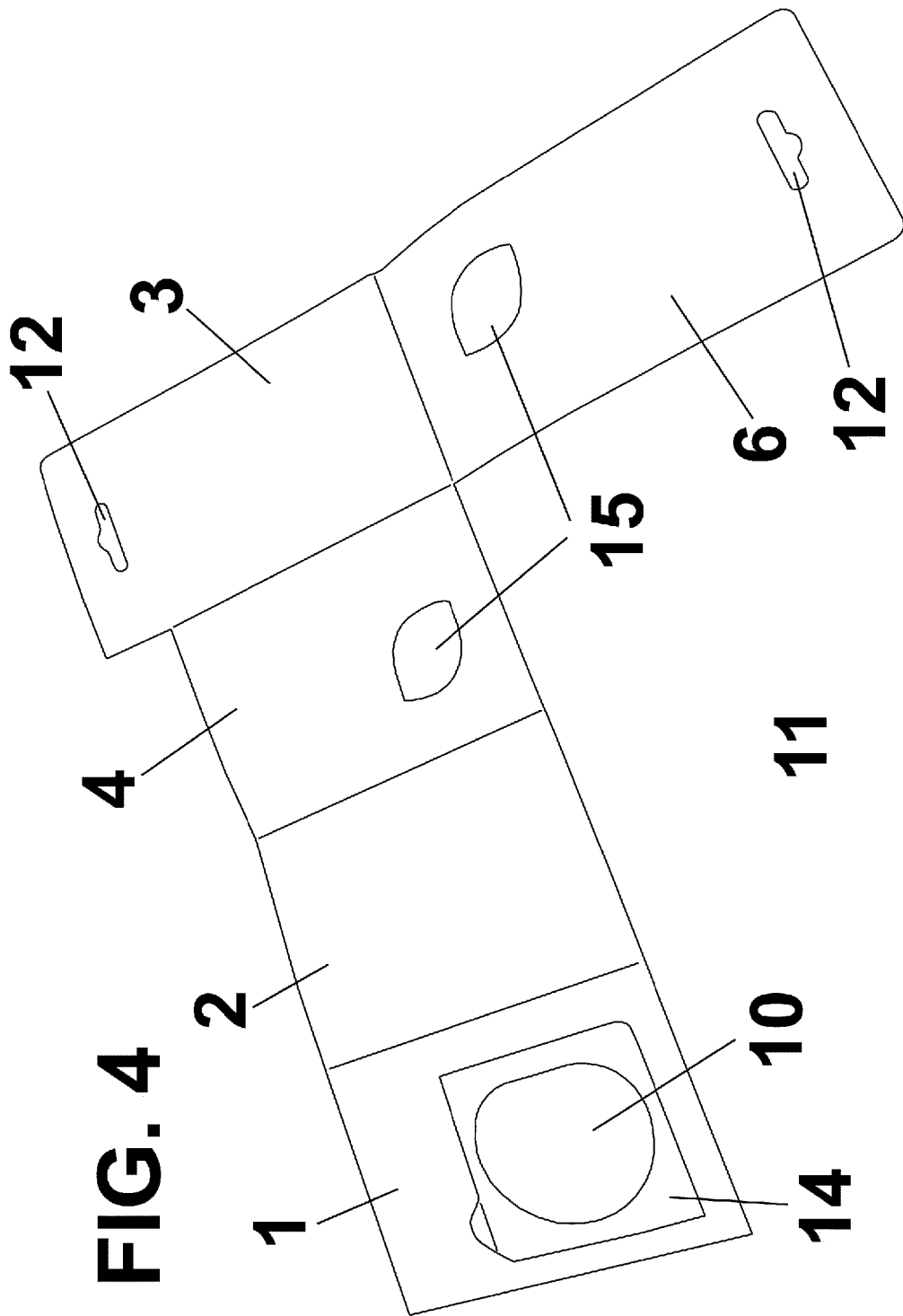


FIG. 3





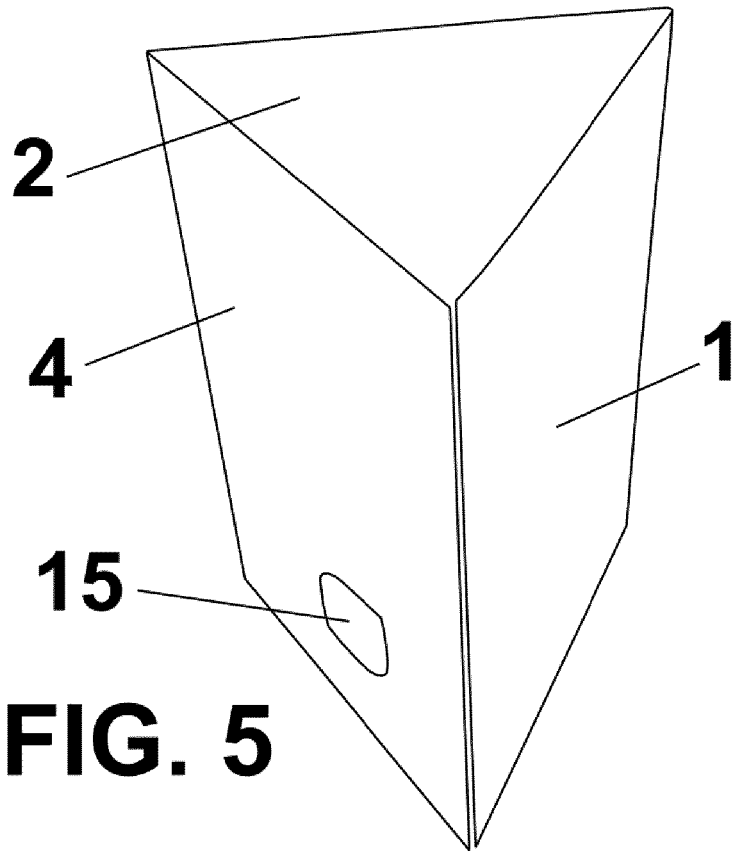
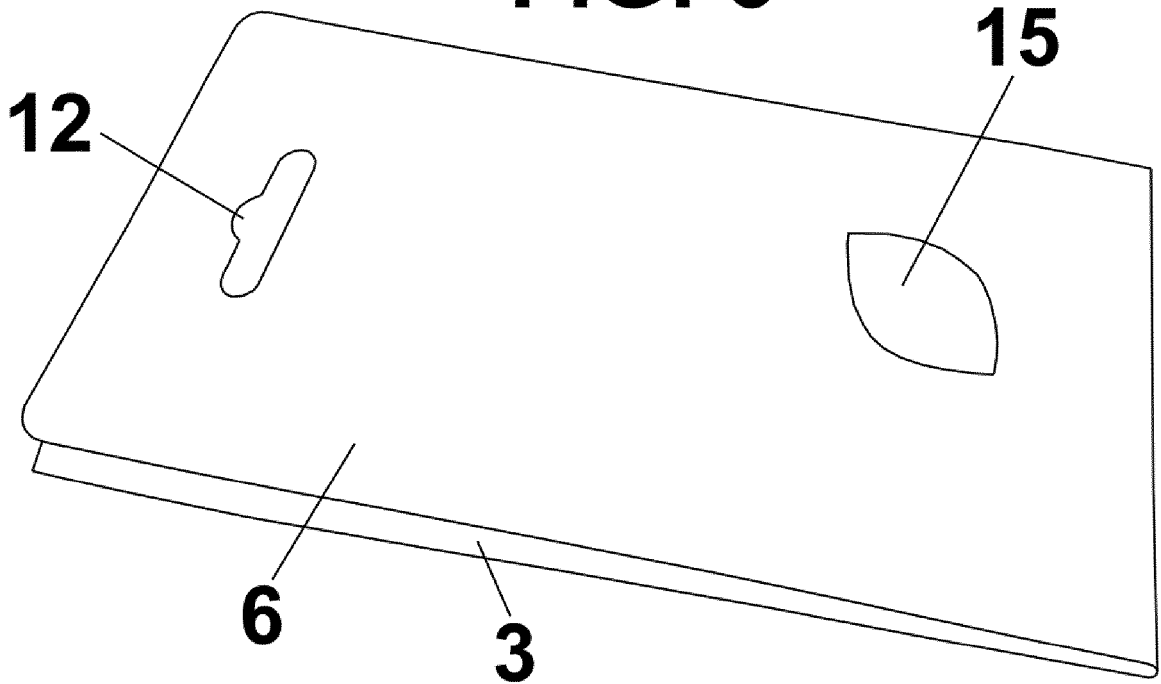


FIG. 5

FIG. 6



REFERENCES CITED IN THE DESCRIPTION

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