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(54) **SEALING BAG WITH REMINDING FUNCTION**

VERSCHLUSSBEUTEL MIT ERINNERUNGSFUNKTION

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Description

TECHNICAL FIELD

[0001] The present invention relates to the technical field of bags, and in particular, to a sealing bag with a reminding function.

BACKGROUND

[0002] In order to facilitate the sealing and opening of a sealing bag, a set of sealing strips are arranged at the opening of the body. The sealing strips include an elongated concave rib with a groove, which is arranged on one side at the opening, and an elongated convex rib with an inner angle, which is arranged on the other side correspondingly. The elongated concave rib and the elongated convex rib cooperate to form a sealing rib to seal the sealing bag. However, since the traditional sealing bag has no prompt function, the sealing strips cannot be fully sealed in the case of a careless operation, and the liquid or objects in the sealing bag are easy to overflow or fall off. Meanwhile, since there is only one set of sealing ribs, the exiting sealing bag is unstable in structure, poor in sealing, and easy to cause air and water leakage.

[0003] A sealing bag with a reminding function is known from US 2017/0210510 A1. The bag comprises male and female profiles having sequential flarings which produce a clicking sound effect when the bag is opened or closed.

[0004] Other bags with a reminding function are disclosed in WO 2016/169947 A1 and WO 03/015493 A1.

SUMMARY

[0005] The purpose of the present invention is to solve the deficiencies of the existing technology, and provided is a sealing bag with a reminding function.

[0006] A technical solution provided in the present invention provides:

A sealing bag with a reminding function, including a body, wherein the sealing bag includes at least one set of first sealing ribs, wherein each set of the first sealing ribs include a first convex rib and a first concave rib, which are respectively arranged on both sides of an opening of the body, an inner side of the first convex rib forms alternating concave portions in a length direction of the first convex rib, convex portions are formed on outer sides of the concave portions, the first concave rib includes dumbbell-shaped grooves that are arranged at intervals, and the first convex rib and the first concave rib are configured to make a sound in a process of the first convex rib being embedded into or separated from the dumbbell-shaped grooves of the first concave rib.

[0007] In a preferred embodiment, at least one set of second sealing ribs parallel to the first sealing ribs are provided at the opening of the body; each set of the second sealing ribs include a second convex rib and a second

concave rib, which are respectively arranged on both sides of the opening of the body; and when the opening of the body is sealed, the second convex rib and the second concave rib are tightly clamped to form a reliable seal.

[0008] In a preferred embodiment, the convex portions are elastic clips and are oriented towards the opening of the body, and when the concave portions and the convex portions of the first convex rib are sequentially clamped into the dumbbell-shaped grooves, the convex portions are in close contact with inner walls of the dumbbell-shaped grooves.

[0009] In a preferred embodiment, the second convex rib is of an arrow-shaped convex angle structure, the second concave rib has a hook-shaped slot, and when the opening of the body is sealed, the second convex rib and the second concave rib are tightly clamped.

[0010] In a preferred embodiment, at least one set of third sealing ribs parallel to the first sealing ribs are provided at the opening of the body; each set of the third sealing ribs include two toothless hooks arranged in parallel, and the two toothless hooks are correspondingly disposed on both sides of the opening of the body and are matched one by one.

[0011] In a preferred embodiment, the concave portions have a concave direction away from the first concave rib, and the concave portions and the convex portions are correspondingly embedded into or separated from the ends of the dumbbell-shaped grooves and make a sound in the process of the first convex rib being embedded into or separated from the dumbbell-shaped grooves of the first concave rib.

[0012] In a preferred embodiment, at least one convex strip is provided between the second sealing ribs and the first sealing ribs.

[0013] In a preferred embodiment, the first sealing ribs are arranged at outer side of the second sealing ribs and are close to the opening of the body, at least a pair of anti-slip strips are provided at the opening of the body, and each pair of the anti-slip strips are correspondingly arranged on both sides of the opening of the body and are disposed at outer side of the first sealing ribs.

[0014] Combining the above-mentioned technical solutions, the beneficial effects of the present invention are as follows: when the opening of the body needs to be sealed, the first convex rib and the first concave rib are aligned, the second convex rib and the second concave rib are aligned, and the first convex rib can be pressed into the first concave rib and the second convex rib can be pressed into the second concave rib by sliding and pressing both sides of the opening of the body forcedly. A rhythmic sound is made when the second convex rib is pressed into the second concave rib, which acts as a reminder and has a good feel. During the sealing process, a "click" sound will be heard, by means of which, not only can the completion of sealing be confirmed, but also a one-time clamping be ensured, so as to achieve a good sealing effect. As the first convex rib is clamped into the

first concave rib and the second convex rib is clamped pressed into the second concave rib, a double sealing effect is formed to obtain a reliable sealing. When the opening of the body needs to be opened, it is forced apart with hands. At this time, the convex portions of the second

convex rib are separated from the dumbbell-shaped grooves in turn, and a rhythmic sound is made to play a reminding function and prevent unintentional opening of the sealing bag.

[0015] The above-mentioned description is only an overview of the technical solutions of the present invention. In order to be able to understand the technical means of the present invention more clearly, it can be implemented according to the content of the description. In order to make the above-mentioned and other objects, features and advantages of the present invention more clearly and easily understood, the following preferred embodiments are cited and described in detail with the accompanying drawings as follows.

BRIEF DESCRIPTION OF DRAWINGS

[0016]

FIG. 1 is a schematic diagram according to the first embodiment of the present invention;

FIG. 2 is a schematic diagram of the first sealing ribs in the present invention;

FIG. 3 is a schematic diagram according to the second embodiment of the present invention;

FIG. 4 is a sectional view of the second sealing ribs in the second embodiment of the present invention;

FIG. 5 is a schematic diagram according to the third embodiment of the present invention;

FIG. 6 is a sectional view of the third sealing ribs in the third embodiment of the present invention; and

FIG. 7 is a schematic diagram according to the fourth embodiment of the present invention.

DETAILED DESCRIPTION

[0017] In order to illustrate the idea and purpose of the present invention, the present invention will be further described below with reference to the accompanying drawings and embodiments.

[0018] In the first embodiment, as shown in FIGS. 1 and 2, a sealing bag with a reminding function is provided, including a body 1 and at least one set of first sealing ribs 3, wherein each set of the first sealing ribs 3 include a first convex rib 31 and a first concave rib 32, which are respectively arranged on both sides of an opening 11 of the body 1, an inner side of the first convex rib 31 forms

alternating concave portions 312 in a length direction of the first convex rib 31, and convex portions 311 are formed on outer sides of the concave portions 312; the first convex rib 31 is extruded along a length direction thereof to form the alternating concave portions 312. Since the first convex rib 31 is extruded to form the concave portions 312, the convex portions 311 are formed on the opposite sides of the concave portions 312. The concave portions 312 are located on a lower part of the first convex rib 31 and arranged away from the opening 11 of the body 1, the convex portions 311 are located on an upper part of the first convex rib 31 and arranged close to the opening 11 of the body 1. The concave portions 312 do not penetrate the first convex rib 31. The first concave rib 32 includes dumbbell-shaped grooves 321 that are arranged at intervals, and the first convex rib 31 and the first concave rib 32 make a sound in the process of the first convex rib 31 being embedded into or separated from the dumbbell-shaped grooves 321 of the first concave rib 32.

[0019] As shown in FIGS. 1 to 3, a rhythmic sound is made when the first convex rib 31 is pressed into the first concave rib 32, which acts as a reminder and has a good feel. During the sealing process, a "click" sound will be heard, by means of which, not only can the completion of sealing be confirmed, but also a one-time clamping be ensured, so as to achieve a good sealing effect. A rhythmic sound is made when the first convex rib 31 is separated from the first concave rib 32, which acts as a reminder and has a good feel. During the opening process, a "click" sound will be heard, by means of which, not only can the completion of opening be determined, but also a good reminding function be acted.

[0020] As shown in FIGS. 1 and 2, the convex portions 311 are elastic clips and are oriented towards the opening 11 of the body 1. When the concave portions 312 and the convex portions 311 of the first convex rib 31 are sequentially clamped into the dumbbell-shaped grooves 321, the convex portions 311 are in close contact with inner walls of the dumbbell-shaped grooves 321, which can not only play a sealing role, but also make a "click" sound.

[0021] As shown in FIGS. 1 and 2, the concave portions 312 have a concave direction away from the first concave rib 32, and the concave portions 312 and the convex portions 311 are correspondingly embedded into or separated from the ends of the dumbbell-shaped grooves 321 and make a sound in the process of the first convex rib 31 being embedded into or separated from the dumbbell-shaped grooves of the first concave rib 32. The width of the ends of the dumbbell-shaped grooves 321 is greater than that of the middle parts, the sum of the widths of the concave portions 312 and the convex portions 311 is greater than the width of the ends of the dumbbell-shaped grooves 321, the width of the first convex rib 31 is greater than that of the middle parts of the dumbbell-shaped grooves 321. By clamping or separating the concave portions 312 and the convex portions 311 into or

from the ends of the dumbbell-shaped grooves 321, a loud "click" sound can be made, which plays a good reminding function. When the first convex rib 31 is clamped into or separated from the middle parts of the dumbbell-shaped grooves 321, a loud "click" sound can be made to play a good reminding function.

[0022] As shown in FIGS. 1 and 2, at least a pair of anti-slip strips 51 are provided at the opening 11 of the body 1, and each pair of anti-slip strips 51 are correspondingly arranged on both sides of the opening 11 of the body 1 and are disposed on the outer side of the first sealing ribs 3. The anti-slip strips 51 are used to increase the friction between the user's fingers and the body 1, which can effectively prevent from slipping and facilitate the quick opening of the body 1.

[0023] In the second embodiment, as shown in FIGS. 2 to 4, the difference between the present embodiment and the first embodiment lies in that: at least one set of second sealing ribs 2 parallel to the first sealing ribs 3 are provided at the opening of the body; each set of the second sealing ribs 2 include a second convex rib 21 and a second concave rib 22, which are respectively arranged on both sides of the opening 11 of the body 1. When the opening 11 of the body 1 is sealed, the second convex rib 21 and the second concave rib 22 are tightly clamped to form a reliable seal. When the opening 11 of the body 1 needs to be sealed, the second convex rib 21 and the second concave rib 22 are aligned, the first convex rib 31 and the first concave rib 32 are aligned, and the second convex rib 21 can be pressed into the second concave rib 22 and the first convex rib 31 can be pressed into the first concave rib 32 by sliding and pressing from both sides of the opening 11 of the body 1 forcibly. At the same time, a rhythmic sound is made when the first convex rib 31 is pressed into the first concave rib 32, which acts as a reminder and has a good feel. During the sealing process, a "click" sound will be heard, by means of which, not only can the completion of sealing be confirmed, but also a one-time clamping be ensured, so as to achieve a good sealing effect. As the second convex rib 21 is clamped into the second concave rib 22 and the first convex rib 31 is clamped into the first concave rib 32, a double sealing effect is formed to obtain a reliable sealing. When the opening 11 of the body 1 needs to be opened, it is forced apart with both hands. At this time, the convex portions 311 of the first convex rib 31 are separated from the dumbbell-shaped grooves 321 in turn, and a rhythmic sound is made to remind and prevent unintentional opening of the sealing bag 1.

[0024] As shown in FIGS. 2 to 4, the convex portions 311 are elastic clips and are oriented towards the opening 11 of the body 1. When the concave portions 312 and the convex portions 311 of the first convex rib 31 are sequentially clamped into the dumbbell-shaped grooves 321, the convex portions 311 are in close contact with the inner walls of the dumbbell-shaped grooves 321, which can not only play a sealing role, but also make a "click" sound. The concave portions 312 are in close con-

tact with the inner walls of the dumbbell-shaped grooves 321, which can not only play a sealing role, but also make a "click" sound.

[0025] As shown in FIGS. 2 to 4, the second convex rib 21 is of an arrow-shaped convex angle structure, the second concave rib 22 has a hook-shaped slot, and when the opening 11 of the body 1 is sealed, the second convex rib 21 and the second concave rib 22 are tightly clamped. When the opening 11 of the body 1 needs to be sealed, the second convex rib 21 and the second concave rib 22 are aligned, the second convex rib 21 can be pressed into the second concave rib 22 by sliding and pressing from both sides of the opening 11 of the body 1 forcibly along the length direction of the opening 11, and the second convex rib 21 is clamped into the hook-shaped slot of the second concave rib 22, so as to form a reliable seal.

[0026] As shown in FIGS. 2 to 4, the concave portions 312 have a concave direction away from the first concave rib 32, and the concave portions 312 and the convex portions 311 are correspondingly embedded into or separated from the ends of the dumbbell-shaped grooves 321 and make a sound in the process of the first convex rib 31 being embedded into or separated from the dumbbell-shaped grooves of the first concave rib 32. The width of the ends of the dumbbell-shaped grooves 321 is greater than that of the middle parts, the sum of the widths of the concave portions 312 and the convex portions 311 is greater than the width of the ends of the dumbbell-shaped grooves 321, the width of the first convex rib 31 is greater than that of the middle parts of the dumbbell-shaped grooves 321. By clamping or separating the concave portions 312 and the convex portions 311 into or from the ends of the dumbbell-shaped grooves 321, a loud "click" sound can be made, which plays a good reminding function. When the first convex rib 31 is clamped into or separated from the middle parts of the dumbbell-shaped grooves 321, a loud "click" sound can be made to play a good reminding function.

[0027] In the third embodiment, as shown in FIGS. 2, 5 and 6, the difference between the present embodiment and the first embodiment or the second embodiment lies in that: at least one set of third sealing ribs 60 parallel to the first sealing ribs are provided at the opening 11 of the body 1; each set of the third sealing ribs 60 include two toothless hooks 61 arranged in parallel, and the two toothless hooks 61 are correspondingly disposed on both sides of the opening 11 of the body 1 and are matched one by one.

[0028] As shown in FIGS. 2, 5 and 6, when the opening 11 of the body 1 is sealed, the two toothless hooks 61 are tightly clamped to form a reliable seal; when the opening 11 of the body 1 needs to be sealed, the two toothless hooks 61 are aligned, the first convex rib 31 and the first concave rib 32 are aligned, and the two toothless hooks 61 can be tightly clamped and the first convex rib 31 can be pressed into the first concave rib 32 by sliding and pressing from both sides of the opening 11 of the body 1 forcibly. At the same time, a rhythmic sound is made

when the first convex rib 31 is pressed into the first concave rib 32, which acts as a reminder and has a good feel. During the sealing process, a "click" sound will be heard, by means of which, not only can the completion of sealing be confirmed, but also a one-time clamping be ensured, so as to achieve a good sealing effect. As the two toothless hooks 61 are tightly clamped to each other and the first convex rib 31 is clamped into the first concave rib 32, a double sealing effect is formed to obtain a reliable sealing. When the opening 11 of the body 1 needs to be opened, it is forced apart with hands. At this time, the convex portions 311 of the first convex rib 31 are separated from the dumbbell-shaped grooves 321 in turn, and a rhythmic sound is made to remind and prevent unintentional opening of the sealing bag 1.

[0029] As shown in FIGS. 5 and 6, at least a pair of anti-slip strips 51 are provided at the opening 11 of the body 1, and each pair of anti-slip strips 51 are correspondingly arranged on both sides of the opening 11 of the body 1 and are disposed on the outer side of the first sealing ribs 3. The anti-slip strips 51 are used to increase the friction between the user's fingers and the body 1, which can effectively prevent from slipping and facilitate the quick opening of the body 1.

[0030] In the fourth embodiment, as shown in FIGS. 2, 4 or 7, the difference between the present embodiment and the first embodiment, the second embodiment or the third embodiment lies in that: at least one convex strip 41 is provided between the second sealing ribs 2 and the first sealing ribs 3, that is, at least one convex strip 41 is provided between the second convex rib 21 and the first convex rib 31. After the opening 11 of the body 1 is sealed, some air will remain between the adjacent two sets of the first sealing ribs 3 and the second sealing ribs 2, so that when pressed from the outside, the second convex rib 21 and the second concave rib 22 are easy to be forced apart, resulting in sealing failure. To this end, at least a pair of convex strips 41 are provided between the first sealing ribs 3 and the second sealing ribs 2. In the present embodiment, there are two pairs of convex strips 41. During the process of pressing the second convex rib 21 and the first convex rib 31, the above-mentioned convex strips 41 contact each other and guide and extrude air and the like, and after the second convex rib 21 and the first convex rib 31 are sealed, the body 1 can be supported to prevent the same from being completely pressed, causing the second convex rib 21 and the first convex rib 31 to be opened by the retained air, so as to ensure the sealing reliability of the sealing bag.

[0031] As shown in FIGS. 2, 4 or 7, the first sealing ribs 3 are arranged on the outer side of the second sealing ribs 2 and are close to the opening 11 of the body 1, that is, the first sealing ribs 3 are located at the upper part of the second sealing ribs 2, at least a pair of anti-slip strips 51 are provided at the opening 11 of the body 1, and each pair of the anti-slip strips 51 are correspondingly arranged on both sides of the opening 11 of the body 1 and are disposed at the outer sides of the first sealing

ribs 3. The anti-slip strips 51 are used to increase the friction between the user's fingers and the body 1, which can effectively prevent from slipping and facilitate the quick opening of the body 1.

[0032] As shown in FIGS. 2, 4 or 7, in the present invention, the opening 11 is sealed by arranging two sets of sealing ribs in parallel at the opening 11 of the body 1, so that the sealing structure is stable, the effectiveness of the sealing structure of the body 1 can be kept in case that a large external force is applied, and the sealing performance is good. Meanwhile, the user's hand feeling when sealing the opening 11 of the body 1 is improved, waterproof and air-leak-proof performance are obtained, and the sealing effect of the body 1 can be maintained for a long time.

[0033] The above are the embodiments of the present invention. It should be pointed out that for those of ordinary skill in the art, several improvements and modifications can also be made without departing from the principles of the present invention which is defined by the claims.

Claims

1. A sealing bag with a reminding function, comprising a body (1), wherein the sealing bag comprises at least one set of first sealing ribs (3), wherein each set of the first sealing ribs (3) comprise a first convex rib (31) and a first concave rib (32), which are respectively arranged on both sides of an opening (11) of the body (1), an inner side of the first convex rib (31) forms alternating concave portions (312) in a length direction of the first convex rib (31), convex portions (311) are formed on outer sides of the concave portions (312), the first concave rib (32) comprises dumbbell-shaped grooves (321) that are arranged at intervals, and the first convex rib (31) and the first concave rib (32) are configured to make a sound in a process of the first convex rib (31) being embedded into or separated from the dumbbell-shaped grooves (321) of the first concave rib (32).
2. The sealing bag with a reminding function according to Claim 1, wherein at least one set of second sealing ribs (2) parallel to the first sealing ribs (3) are provided at the opening (11) of the body (1); each set of the second sealing ribs (2) comprise a second convex rib (21) and a second concave rib (22), which are respectively arranged on both sides of the opening (11) of the body (1); and when the opening (11) of the body (1) is sealed, the second convex rib (21) and the second concave rib (22) are tightly clamped to form a reliable seal.
3. The sealing bag with a reminding function according to Claim 1, wherein the convex portions (311) are elastic clips and are oriented towards the opening

(11) of the body (1), and when the concave portions (312) and the convex portions (311) of the first convex rib (31) are sequentially clamped into the dumbbell-shaped grooves (321), the convex portions (311) are in close contact with inner walls of the dumbbell-shaped grooves (321).

4. The sealing bag with a reminding function according to Claim 2, wherein the second convex rib (21) is of an arrow-shaped convex angle structure, the second concave rib (22) has a hook-shaped slot, and when the opening (11) of the body (1) is sealed, the second convex rib (21) and the second concave rib (22) are tightly clamped.
5. The sealing bag with a reminding function according to Claim 1, wherein at least one set of third sealing ribs (60) parallel to the first sealing ribs (3) are provided at the opening (11) of the body (1); each set of the third sealing ribs (60) comprise two toothless hooks (61) arranged in parallel, and the two toothless hooks (61) are correspondingly disposed on both sides of the opening (11) of the body (1) and are matched one by one.
6. The sealing bag with a reminding function according to Claim 1, wherein the concave portions (312) have a concave direction away from the first concave rib (32), and the concave portions (312) and the convex portions (311) are correspondingly embedded into or separated from the ends of the dumbbell-shaped grooves (321) and make a sound in the process of the first convex rib (31) being embedded into or separated from the dumbbell-shaped grooves (321) of the first concave rib (32).
7. The sealing bag with a reminding function according to Claim 2, wherein at least one convex strip (41) is provided between the second sealing ribs (2) and the first sealing ribs (3).
8. The sealing bag with a reminding function according to Claim 2, wherein the first sealing ribs (3) are arranged at outer side of the second sealing ribs (2) and are close to the opening (11) of the body (1), at least a pair of anti-slip strips (51) are provided at the opening (11) of the body (1), and each pair of the anti-slip strips (51) are correspondingly arranged on both sides of the opening (11) of the body (1) and are disposed at outer side of the first sealing ribs (3).

Patentansprüche

1. Verschlussbeutel mit einer Erinnerungsfunktion, umfassend einen Körper (1), wobei der Verschlussbeutel mindestens einen Satz erster Verschlussrippen (3) umfasst, wobei jeder Satz der ersten Ver-

schlussrippen (3) eine erste konvexe Rippe (31) und eine erste konkave Rippe (32) umfasst, die jeweils auf beiden Seiten einer Öffnung (11) des Körpers (1) angeordnet sind, wobei eine Innenseite der ersten konvexen Rippe (31) abwechselnd konkave Abschnitte (312) in einer Längsrichtung der ersten konvexen Rippe (31) bildet, konvexe Abschnitte (311) an den Außenseiten der konkaven Abschnitte (312) ausgebildet sind, die erste konkave Rippe (32) hantelförmige Rillen (321) aufweist, die in Intervallen angeordnet sind, und die erste konvexe Rippe (31) und die erste konkave Rippe (32) so konfiguriert sind, dass sie bei einem Vorgang, bei dem die erste konvexe Rippe (31) in die hantelförmigen Rillen (321) der ersten konkaven Rippe (32) eingebettet oder von diesen getrennt wird, einen Ton erzeugen.

2. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 1, wobei an der Öffnung (11) des Körpers (1) mindestens ein Satz zweiter Verschlussrippen (2) parallel zu den ersten Verschlussrippen (3) vorgesehen ist; jeder Satz der zweiten Verschlussrippen (2) eine zweite konvexe Rippe (21) und eine zweite konkave Rippe (22) umfasst, die jeweils auf beiden Seiten der Öffnung (11) des Körpers (1) angeordnet sind; und wenn die Öffnung (11) des Körpers (1) verschlossen wird, die zweite konvexe Rippe (21) und die zweite konkave Rippe (22) fest eingeklemmt werden, um einen zuverlässigen Verschluss zu bilden.
3. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 1, wobei die konvexen Abschnitte (311) elastische Klammern sind und zur Öffnung (11) des Körpers (1) hin ausgerichtet sind, und wenn die konkaven Abschnitte (312) und die konvexen Abschnitte (311) der ersten konvexen Rippe (31) nacheinander in die hantelförmigen Nuten (321) eingeklemmt werden, die konvexen Abschnitte (311) in engem Kontakt mit den Innenwänden der hantelförmigen Nuten (321) stehen.
4. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 2, wobei die zweite konvexe Rippe (21) eine pfeilförmige konvexe Winkelstruktur aufweist, die zweite konkave Rippe (22) einen hakenförmigen Schlitz aufweist und beim Verschließen der Öffnung (11) des Körpers (1) die zweite konvexe Rippe (21) und die zweite konkave Rippe (22) fest eingeklemmt werden.
5. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 1, wobei mindestens ein Satz dritter Verschlussrippen (60) parallel zu den ersten Verschlussrippen (3) an der Öffnung (11) des Körpers (1) vorgesehen ist; jeder Satz der dritten Verschlussrippen (60) zwei parallel angeordnete zahnlose Haken (61) umfasst, und die beiden zahnlosen Haken (61) entsprechend auf beiden Seiten der Öffnung

(11) des Körpers (1) angeordnet sind und einer nach dem anderen aufeinander abgestimmt sind.

6. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 1, wobei die konkaven Abschnitte (312) eine konkave Richtung weg von der ersten konkaven Rippe (32) aufweisen und die konkaven Abschnitte (312) und die konvexen Abschnitte (311) entsprechend in die Enden der hantelförmigen Rillen (321) eingebettet oder von diesen getrennt sind und einen Ton erzeugen, wenn die erste konvexe Rippe (31) in die hantelförmigen Rillen (321) der ersten konkaven Rippe (32) eingebettet oder von diesen getrennt wird.
7. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 2, wobei zwischen den zweiten Verschlussrippen (2) und den ersten Verschlussrippen (3) mindestens ein konvexer Streifen (41) vorgesehen ist.
8. Verschlussbeutel mit Erinnerungsfunktion nach Anspruch 2, wobei die ersten Verschlussrippen (3) an der Außenseite der zweiten Verschlussrippen (2) und nahe der Öffnung (11) des Körpers (1) angeordnet sind, mindestens ein Paar Antirutschstreifen (51) an der Öffnung (11) des Körpers (1) vorgesehen sind, und jedes Paar der Antirutschstreifen (51) entsprechend auf beiden Seiten der Öffnung (11) des Körpers (1) angeordnet ist und an der Außenseite der ersten Verschlussrippen (3) angeordnet ist.

Revendications

1. Sac d'étanchéité avec une fonction de rappel, comprenant un corps (1), dans lequel le sac d'étanchéité comprend au moins un ensemble de premières nervures d'étanchéité (3), dans lequel chaque ensemble de premières nervures d'étanchéité (3) comprennent une première nervure convexe (31) et une première nervure concave (32), qui sont respectivement agencées sur les deux côtés d'une ouverture (11) du corps (1), un côté intérieur de la première nervure convexe (31) forme des portions concaves alternées (312) dans une direction de la longueur de la première nervure convexe (31), des portions convexes (311) sont formées sur des côtés extérieurs des portions concaves (312), la première nervure concave (32) comprend des rainures forme d'haltère (321) qui sont agencées à des intervalles, et la première nervure convexe (31) et la première rainure concave (32) sont configurées pour faire un son dans un processus dans lequel la première nervure convexe (31) est intégrée dans les rainures en forme d'haltère (321) de la première nervure concave (32) ou en est séparée.
2. Sac d'étanchéité avec une fonction de rappel selon

la revendication 1, dans lequel au moins un ensemble de deuxième nervures d'étanchéité (2) parallèles aux premières nervures d'étanchéité (3) sont prévues au niveau de l'ouverture (11) du corps (1); chaque ensemble des deuxième nervures d'étanchéité (2) comprennent une deuxième nervure convexe (21) et une deuxième nervure concave (22), qui sont respectivement agencées sur les deux côtés de l'ouverture (11) du corps (1); et quand l'ouverture (11) du corps (1) est étanchée, la deuxième nervure convexe (21) et la deuxième nervure concave (22) sont fermement serrées pour former un joint d'étanchéité fiable.

3. Sac d'étanchéité avec une fonction de rappel selon la revendication 1, dans lequel les portions convexes (311) sont des agrafes élastiques et sont orientées vers l'ouverture (11) du corps (1), et quand les portions concaves (312) et les portions convexes (311) de la première nervure convexe (31) sont séquentiellement serrées dans les rainures en forme d'haltère (321), les portions convexes (311) sont en contact intime avec des parois intérieures des rainures en forme d'haltère (321).
4. Sac d'étanchéité avec une fonction de rappel selon la revendication 2, dans lequel la deuxième nervure convexe (21) est constituée d'une structure en angle convexe en forme de flèche, la deuxième nervure concave (22) a une fente en forme de crochet, et quand l'ouverture (11) du corps (1) est étanchée, la deuxième nervure convexe (21) et la deuxième nervure concave (22) sont fermement serrées.
5. Sac d'étanchéité avec une fonction de rappel selon la revendication 1, dans laquelle au moins un ensemble de troisièmes nervures d'étanchéité (60) parallèles aux premières nervures d'étanchéité (3) sont prévues au niveau de l'ouverture (11) du corps (1); chaque ensemble des troisièmes nervures d'étanchéité (60) comprennent deux crochets sans dents (61) agencés en parallèle, et les deux crochets sans dents (61) sont disposés de manière correspondante sur les deux côtés de l'ouverture (11) du corps (1) et sont appariés un à un.
6. Sac d'étanchéité avec une fonction de rappel selon la revendication 1, dans lequel les portions concaves (312) ont une direction concave en éloignement de la première nervure concave (32), et les portions concaves (312) et les portions convexes (311) sont intégrées dans les extrémités des rainures en forme d'haltère (321) ou en sont séparées, et font un son dans le processus dans lequel la première nervure (31) est intégrée dans les rainures en forme d'haltère (321) de la première nervure concave (32) ou en est séparée.

7. Sac d'étanchéité avec une fonction de rappel selon la revendication 2, dans lequel au moins une bande convexe (41) est prévue entre les deuxièmes nervures d'étanchéité (2) et les premières nervures d'étanchéité (3). 5
8. Sac d'étanchéité avec une fonction de rappel selon la revendication 2, dans lequel les premières nervures d'étanchéité (3) sont agencées au niveau d'un côté extérieur des deuxièmes nervures d'étanchéité (2) et sont proches de l'ouverture (11) du corps (1), au moins une paire de bandes antidérapantes (51) sont prévues au niveau de l'ouverture (11) du corps (1), et chaque paire de bandes antidérapantes (51) sont agencées de manière correspondante sur les deux côtés de l'ouverture (11) du corps (1) et sont disposées au niveau d'un côté extérieur des premières nervures d'étanchéité (3). 10 15 20 25 30 35 40 45 50 55

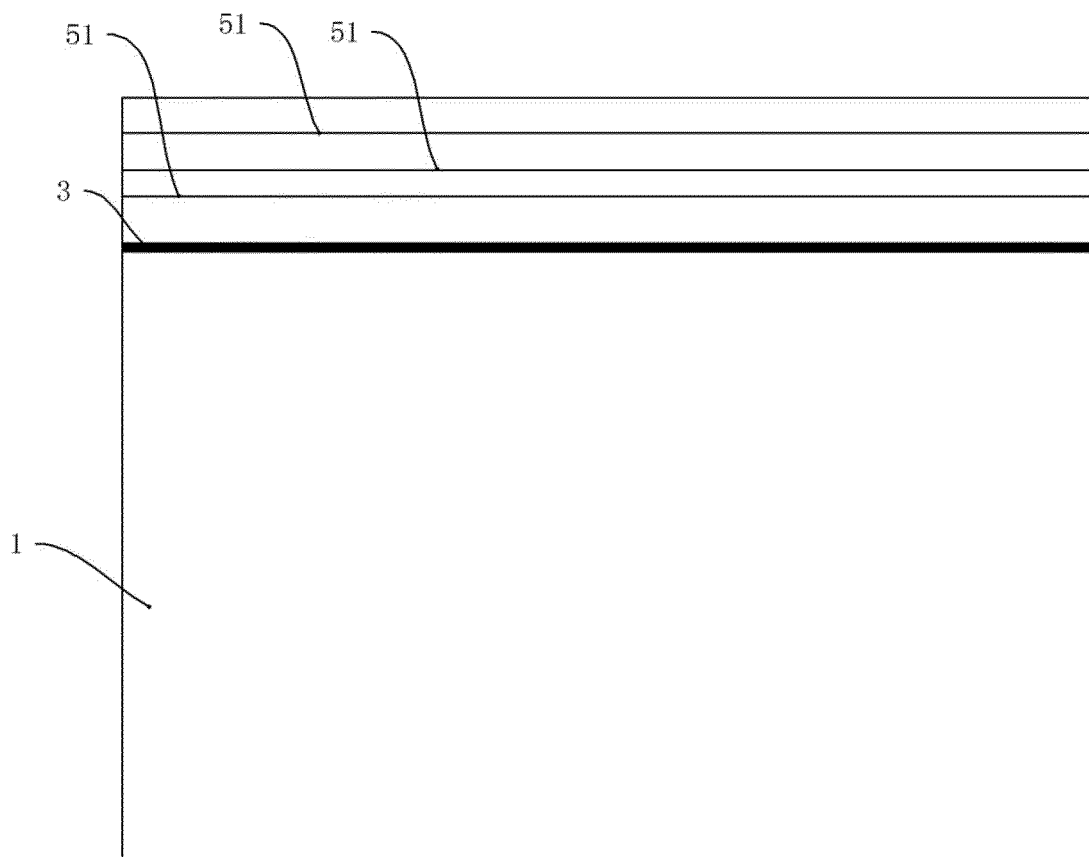


FIG. 1

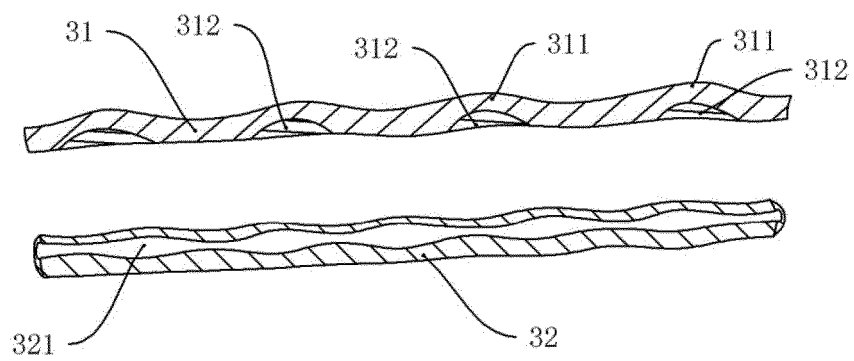


FIG. 2

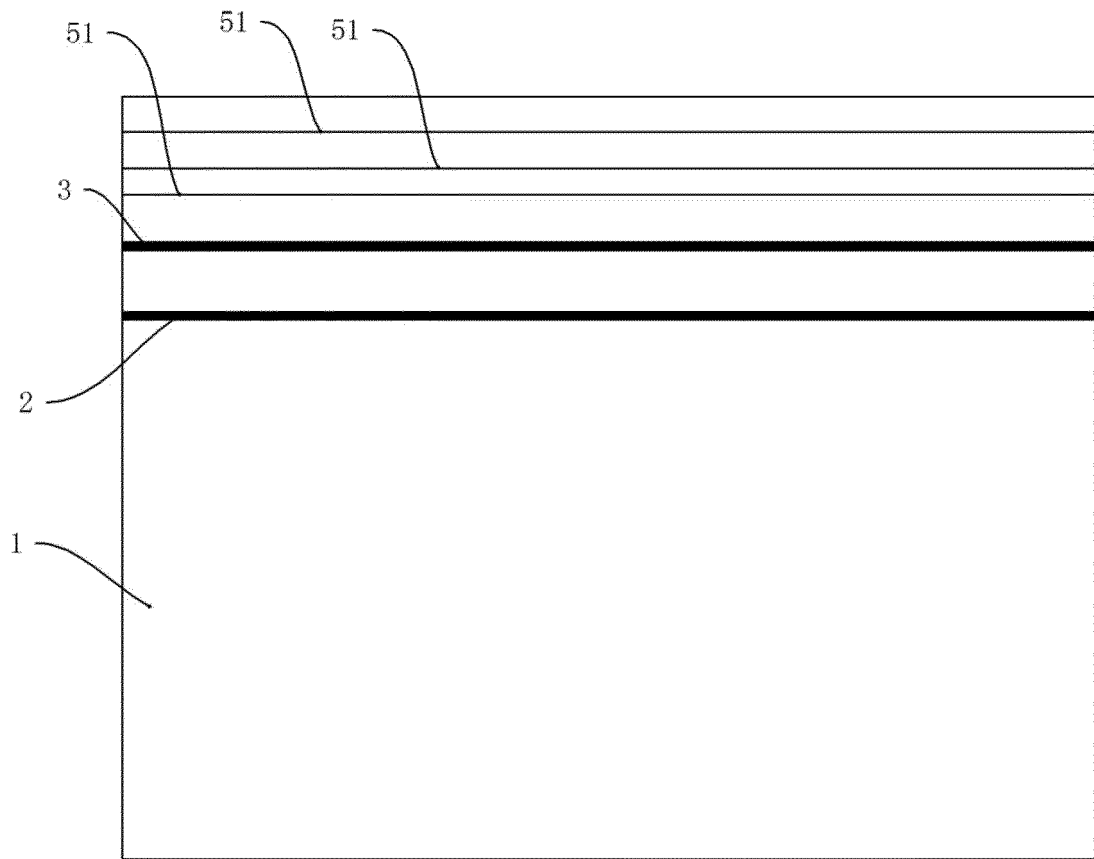


FIG. 3

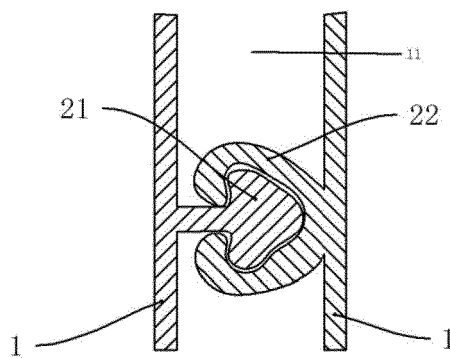


FIG. 4

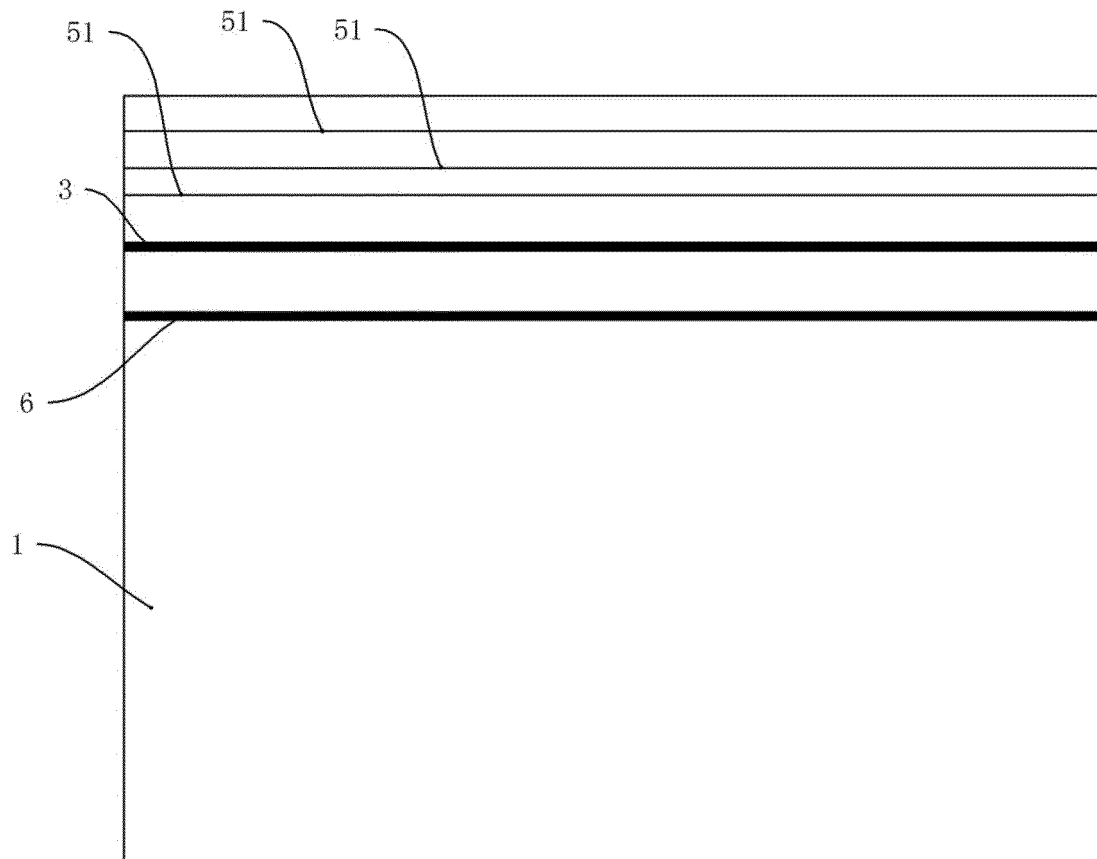


FIG. 5

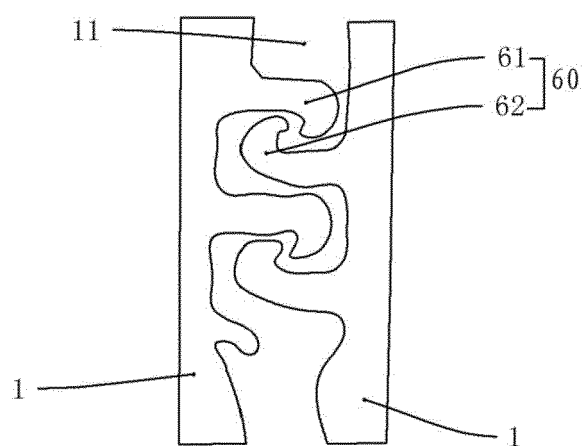


FIG. 6

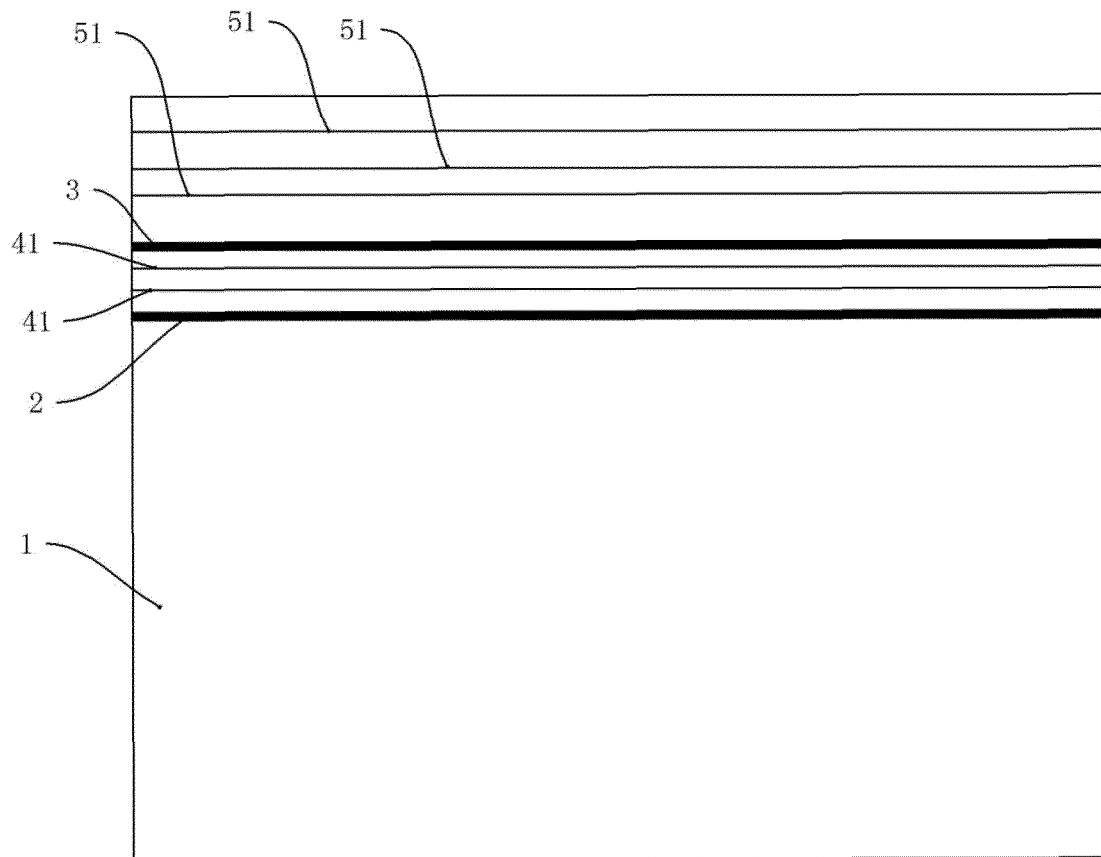


FIG. 7

REFERENCES CITED IN THE DESCRIPTION

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