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(54) **BAG HOLDER FOR HYGIENE AND REFUSE BAGS**

SACKHALTER FÜR HYGIENISCHE BEUTEL UND HAUSMÜLLSÄCKE

SUPPORT DE SACS HYGIENIQUE ET SACS A ORDURES MENAGERES

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**FR-A- 1 453 700 IE-A- 66 085
US-A- 2 269 257 US-A- 3 912 208**

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Description

Technical Field

[0001] The invention relates to a bag holder for hygiene and refuse bags, said bag holder comprising a rear side member and a front side member, each having securing means for a bag at their upper ends, where the front side member and the rear side member are tiltably interconnected substantially along a horizontal axis of rotation positioned adjacent their lower ends, said front side member and said rear side member being biased into a position in which they are pressed together by means of a spring means, and where the rear side member comprises means for suspending the bag holder on a wall, and the front side member comprises an activating means arranged below the axis of rotation and projecting forwards and obliquely downwards so as to be foot operated when the bag opening is to be opened.

Background Art

[0002] Bag holders of the above type are known. These known bag holders are often relatively complicated and designed to be placed on the floor.

[0003] Furthermore, bag holders for suspension on a wall are known, said bag holders comprising a manually handled clamp for receiving free hanging bags. The clamp is horizontally mounted in such a manner that the hinge is mounted vertically and typically 40 to 60 cm above the floor. When a bag is to be mounted on the known clamps, the bag is pulled sideways over the two legs of the clamp, said bag usually being provided with a channel-shaped passage on both sides adjacent the bag opening, and when said bag is to be dismantled it is pulled off in the opposite direction. The bag is hanging visibly on the clamp and is opened by the clamp being subjected to a pressing on the opposite side of the hinge, the clamp being biased by means of a spring into a position in which the bag is closed.

[0004] The known wall-suspended bag holders meet the desired function concerning holding the bag and ensuring a reasonable closing thereof with respect to avoiding a smell. However, an opening of the bag can only be performed manually which is both unhygienic and inconvenient. In addition, the bag is visible which is unpleasant, and furthermore the opening area of the bag is rather small with the result that it is rather difficult to place waste therein. Yet another disadvantage is found in the fact that the clamp requires approximately 50 cm free width on the wall because per se the clamp takes up room on one side of the bag and on the other side of said bag there must be a free space allowing a replacement of the bag.

[0005] From IE-A-66085 a bag holder of the type described in the introduction is known.

Brief Description of the Invention

[0006] The bag holder described in the introduction is according to the invention characterised in that the front side member is shaped as a screen for substantially covering the entire bag, and that the front side member and the rear side member each comprises at least one projection, said projections projecting towards one another, whereby the projection on the front side member is adapted to be tiltably arranged on the free edge of the projection on the rear side member in such a manner that it projects over said projection while the free edge of the projection on the rear side member abuts a surface below the projection on the front side member, and whereby the projection on the rear side member is provided along the lower edge of said rear side member, and where the spring means comprises a flat spring secured on the front side member below the projection, said flat spring being of a substantially Z-shaped cross section and adapted to provide the front side member with a biasing about the axis of rotation towards the rear side member, where one web of said flat spring is secured to the front side member and the second web of said flat spring is adapted to engage behind and abuts the back of the rear side member while the length between the two webs closely abuts the adjacent projection on the rear side member. As a result, a tiltable connection is obtained in a simple manner between the front side member and the rear side member of the bag holder while both a locking of said front side member onto the rear side member as well as a biasing of said front side member and said rear side member into a closed, folded state are obtained as well by means of the flat spring.

[0007] Moreover, a section bar may according to the invention be mounted between the spring and the front side member, said section bar preferably being made of metal and being of a substantially V-shaped cross section, one leg of the V inclining upwards and rearwards from the bottom side of the adjacent web of the flat spring, whereby said section bar is adapted by its free edge to abut the bottom side of the projection of the rear side member when the front side member is tilted a predetermined length outwards about the axis of rotation. As a result, both a protecting support for the spring and an efficient stop for the outward movement of the front side member in a desired position are obtained.

[0008] The other leg of the V-shaped section bar abuts the front side member and comprises according to the invention advantageously a bent web extending along the free edge thereof and abutting the bottom side of the projection on the front side member. As a result a good protection of the front side member against wear caused by the tilting about the free edge of the projection on the rear side member is obtained.

[0009] The upwardly and rearwardly inclining leg of the section bar may according to the invention advantageously be provided with a recess facilitating the

mounting of the spring on the front side member.

[0010] The rear side member may according to the invention be made of a stainless sheet material with the result that it can be relatively thin.

[0011] Finally, the front side member may be shaped integral with the activating means from a plastic material by way of a pressing process with the result that in a simple manner it can be provided with a pleasant appearance.

Brief Description of the Drawing

[0012] The invention is explained in greater detail below with reference to the accompanying drawing, in which

Fig. 1 is a diagrammatic front view of a bag holder according to the invention,

Fig. 2 corresponds to Fig. 1, but where a front side member has been removed for the sake of clarity,

Fig. 3 is a sectional view of the bag holder taken along the line III-III in Fig. 1 and showing the bag holder in the closed state,

Fig. 4 corresponds to Fig. 3, but showing the bag holder in the open state,

Fig. 5 is a perspective view of the bag holder in the closed state, and

Fig. 6 corresponds to Fig. 5, but showing the bag holder in the open state,

Fig. 7 is a vertical sectional view through a preferred embodiment of a bag holder according to the invention seen in the closed state,

Fig. 8 corresponds to Fig. 7, but showing the bag holder in the open state,

Fig. 9 illustrates on a larger scale the lowermost portion of the bag holder of Fig. 8, and

Fig. 10 is a front view of the bag holder of Figs. 7 to 9, whereby the front side member is removed and a bag is indicated by means of dotted lines.

[0013] As shown in Figs. 1 to 6, the bag holder illustrated in the drawing comprises a front side member 1 and a rear side member 2. The front side member 1 and the rear side member 2 are tiltably interconnected by means of a hinge 3 along a horizontal axis adjacent their lower ends, said hinge being diagrammatically shown. On the side below the hinge 3, the front side member 1 comprises an obliquely downwardly and outwardly projecting activating means 4. When subjected to a press-

ing, preferably by means of a foot, this activating means 4 allows an opening of the bag holder from the state indicated in Fig. 3 into the state indicated in Fig. 4, a spring not shown here being provided in connection with the hinge 4. This spring biases the front side member 1 into the closed position shown in Fig. 3.

[0014] The rear side member 2 is suitably made of a stainless sheet material, and at the top it comprises a minor bending, cf. Fig. 4, as well at the very top two opposing pins 5. These pins 5 are adapted to be inserted in their respective ends of a channel-shaped passage not shown in greater detail in one side of a bag 7 at the opening thereof. The opposite side of the bag 7 is usually provided with a hole, which in a similar manner is secured to a hook-like pin on the back of the front side member 1.

[0015] In use, this bag holder is as mentioned easily opened by operating the activating means 4 by means of a foot. In the open state, it is relatively easy to mount the bag 7, and similarly it is very easy to replace the bag 7. As illustrated in Fig. 6, the opening of the bag presents in the open state of said bag a relatively large triangular opening area which ensures an easy placing of garbage in the bag 7.

[0016] As the front side member 1 is suitably shaped as a screen hiding both the front and the sides of the bag, said bag is efficiently hidden, and at the same time a hollow space is provided which allows an efficient utilization of the capacity of the bag.

Best Mode for Carrying Out the Invention

[0017] The preferred embodiment of the bag holder illustrated in Figs. 7 to 10 is shown with the same reference numerals as the embodiment shown in Figs. 1 to 7 with respect to the corresponding parts. Thus, the bag holder of Figs. 7 to 10 also comprises a front side member 1, a rear side member 2, pins 5 and 6 and the bag 7 indicated by means of dotted lines in Fig. 10.

[0018] The front side member 1 is cast integral of a plastic material by way of a pressing process, and at the sides it is shaped with side portions 8 both covering the bag 7 along the sides and reinforcing the front side member 1. At the bottom, a projection 9 is shaped between the side portions 8, said projection projecting rearwardly towards the rear side member 2 in the mounted state of the bag holder. In the mounted state, the projection 9 follows a horizontal course. Immediately below the projection, a small recess 10 is provided. The bottom of the recess 10 extends substantially perpendicular to the projection 9. This recess 10 serves to receive a section bar 11 of a V-shaped cross section. The section bar 11 abuts by one leg 12 the bottom of the recess, and it is secured to said bottom by means of a plurality of screws 13. Along the free longitudinal edge of said leg 12 of the section bar 11, a bent web 14 is provided, said web abutting the bottom side of the projection 9 on the front side member 1. As indicated, the

other leg 15 of the section bar 11 is shaped with a longitudinal recess 16 in such a manner that the leg 15 only has its full length at the ends when seen in the longitudinal direction of the section bar.

[0019] The rear side member 2 is made of a stainless plate material. When seen in the mounted state, the plate is shaped with reinforcing beads 17 and 18 along the vertical sides of said plate. At the bottom, the rear side member 2 comprises a horizontal convex projection 19.

[0020] On suitable locations, the rear side member 2 is provided with holes 20 and 20' for mounting of the bag holder on a wall 21 by means of suitable fastening means. At the top, a bracket 22 is welded onto the rear side member 2, said bracket comprising a suitably bent bar of a round cross section and obliquely cut ends 23 and 24. These ends 23 and 24 form their respective ends of the pins 5 for facilitating the mounting of a refuse bag. The rear side member 2 is substantially made of a plate which at the top comprises a suitable bending at 25 in order to facilitate the welding of the bracket 22.

[0021] In the mounted state of the front side member 1 and the rear side member 2, the projection 9 of the front side member 1 projects over the projection 19 on the rear side member 2. The front side member 1 is retained in this state by means of a flat spring 26 of a substantially Z-shaped cross section. One longitudinal web of this flat spring 26 is arranged so as to abut the leg 12 of the V-shaped section bar 11 and is secured to said leg by means of the same screws 13 as are used for securing the V-shaped section bar to the front side member 1. The second web of the Z-shaped flat spring 26 extends upwards along the back of the rear side member 2 while the intermediary length of the spring 26 extends along the bottom side of the projection of the rear side member 2. When the front side member 1 is tilted over the free edge of the projection 19 on the rear side member 2, the Z-shaped flat spring 26 also operates as a spring which by a suitable shaping subjects the front side member 1 to a biasing force ensuring that said front side member 1 is positioned in the closed state shown in Fig. 7 when the activating means 4 is not operated.

[0022] Thus the flat spring 26 ensures both a securing of the front side member 1 on the rear side member 2 and the necessary biasing of said front side member 1 into the closed state.

[0023] When seen in the cross-sectional direction, the freely projecting leg 15 of the V-shaped section bar 11 is of such a length that at the ends it abuts the bottom side of the projection 19 of the rear side member 2 when the activated front side member 1 has reached its outermost position in the open state. As a result, the V-shaped section bar forms suitable stopping means for the opening movement of the front side member 1.

[0024] The above longitudinal recess 16 in the freely projecting leg of the V-shaped section bar serves to facilitate the mounting of the flat spring 26 on the front side member 1 before said front side member is connected

to the rear side member 2.

[0025] The pin 6 for mounting a bag 7 on the front side member 1 is moulded in the plastic material of the front side member 1. It is made of a thin bar stock bent in such a manner that it follows a substantially annular course between two parallel ends embedded in the front side member 1, and furthermore in such a manner that it can easily engage a corresponding hole 27 in the bag 7, cf. Fig. 10, in the bag 7.

[0026] In order to ensure a particularly good closing of the opening of the bag 7 when the front side member 1 is in the closed state, a transverse abutment 28 is provided on the back of said front side member 1. The abutment 28 is adapted to press the bag against the pins 5. This abutment may optionally be provided with a resilient means for softening the closing stroke.

[0027] The invention has been described with reference to preferred embodiments. Many modifications can be carried out without thereby deviating from the scope of the invention as defined in the appended claims.

Claims

1. Bag holder for hygiene and refuse bags, said bag holder comprising a rear side member (2) and a front side member (1), each having securing means (5,6) for a bag (7) at their upper ends, where the front side member (1) and the rear side member (2) are tiltably interconnected substantially along a horizontal axis of rotation positioned adjacent their lower ends, said front side member (1) and said rear side member (2) being biased into a position in which they are pressed together by means of a spring means (26), and where the rear side member (2) comprises means (19, 20) for suspending the bag holder on a wall, and the front side member comprises an activating means (4) arranged below the axis of rotation and projecting forwards and obliquely downwards so as to be foot operated when the bag (7) opening is to be opened, **characterised in that** the front side member (1) is shaped as a screen for substantially covering the entire bag (7), and that the front side member (1) and the rear side member (2) each comprises at least one projection (9 and 19, respectively), said projections (9, 19) projecting towards one another, whereby the projection (9) on the front side member (1) is adapted to be tiltably arranged on the free edge of the projection (19) on the rear side member (2) in such a manner that it projects over said projection while the free edge of the projection (19) on the rear side member abuts a surface below the projection (9) on the front side member (1), and whereby the projection on the rear side member (2) is provided along the lower edge of said rear side member, and that the spring means comprises a flat spring (26) secured on the

front side member (1) below the projection (9), said flat spring being of a substantially Z-shaped cross section and adapted to provide the front side member (1) with a biasing about the axis of rotation towards the rear side member (2), where one web of said flat spring (26) is secured to the front side member (1) and the second web of said flat spring is adapted to engage behind and abut the back of the rear side member (2) while the length between the two webs closely abuts the adjacent projection (19) on the rear side member (2).

2. Bag holder as claimed in claim 1, **characterised in that** a section bar (11) is mounted between the spring (26) and the front side member (1), said section bar preferably being made of metal and being of a substantially V-shaped cross section, one leg (15) of the V inclining upwards and rearwards from the bottom side of the web of the flat spring, whereby said section bar is adapted by its free edge to abut the bottom side of the projection (19) of the rear side member (2) when the front side member (1) is tilted a predetermined length outwards about the axis of rotation.
3. Bag holder as claimed in claim 2, **characterised in that** the other leg (12) of the V-shaped section bar (11) abuts the front side member (1) and comprises a bent web (14) extending along the free edge thereof and abutting the bottom side of the projection (9) on the front side member (1).
4. Bag holder as claimed in claim 2 or 3, **characterised in that** a recess (16) is provided in the obliquely upwardly and rearwardly projecting leg (15) on the section bar (11), said recess facilitating the mounting of the spring (26) on the front side member.
5. Bag holder as claimed in one or more of the preceding claims 1 to 4, **characterised in that** the rear side member (2) is made of a stainless sheet material.
6. Bag holder as claimed in one or more of the preceding claims 1 to 5, **characterised in that** the front side member (1) is shaped integral with the activating means (4) from a plastic material by way of a pressing process.

Patentansprüche

1. Beutelhalter für Hygiene- und Abfallbeutel, wobei der Beutelhalter ein Rückseitenelement (2) und ein Vorderseitenelement (1) umfasst, welche jeweils an ihrem oberen Enden Befestigungsmittel (5, 6) für einen Beutel (7) aufweisen, wobei das Vorderseiten-

element (1) und das Rückseitenelement (2) im wesentlichen entlang einer ihren unteren Enden benachbart angeordneten, horizontalen Rotationsachse kippbar verbunden sind, das Vorderseitenelement (1) und das Rückseitenelement (2) anhand von Federmitteln (26) in Richtung einer Position vorgespannt sind, in der sie zusammengedrückt sind, und wobei das Rückseitenelement (2) Mittel (19, 20) zum Aufhängen des Beutelhalters an einer Wand umfasst und das Vorderseitenelement ein Betätigungsmittel (4) umfasst, das unter der Rotationsachse angeordnet ist und nach vorne und schief nach unten vorragt, um fußbetätigbar zu sein, wenn die Beutel-(7)-Öffnung geöffnet werden soll,

dadurch gekennzeichnet, dass das Vorderseitenelement (1) als eine Blende ausgebildet ist, um im wesentlichen den gesamten Beutel (7) zu bedecken, und dass das Vorderseitenelement (1) und das Rückseitenelement (2) jeweils mindestens einen Vorsprung (9 bzw. 19) umfassen, die Vorsprünge (9, 19) in einer Richtung zueinander vorragen, wodurch der Vorsprung (9) auf dem Vorderseitenelement (1) dazu geeignet ist, um kippbar auf der freien Kante des Vorsprungs (19) auf dem Rückseitenelement (2) in einer solchen Art und Weise angeordnet zu sein, dass er über den Vorsprung vorragt, während die freie Kante des Vorsprungs (19) auf dem Rückseitenelement an eine Fläche unter dem Vorsprung (9) auf dem Vorderseitenelement (1) anstößt, und wobei der Vorsprung auf dem Rückseitenelement (2) entlang der unteren Kante des Rückseitenelements vorgesehen ist und, dass das Federmittel eine Flachfeder (26) umfasst, die auf dem Vorderseitenelement (1) unterhalb des Vorsprungs (9) befestigt ist, die Flachfeder einen im wesentlichen Z-förmigen Querschnitt aufweist und dazu geeignet ist, das Vorderseitenelement (1) mit einer Vorspannung um die Rotationsachse in Richtung dem Rückseitenelement (2) vorzuspannen, wobei ein Steg der Flachfeder (26) an dem Vorderseitenelement (1) befestigt ist und der zweite Steg der Flachfeder dazu geeignet ist, hinter die Rückseite des Rückseitenelements (2) einzugreifen und an der Rückseite des Rückseitenelements (2) anzuliegen, während die Länge zwischen den zwei Stegen eng an dem benachbarten Vorsprung (19) auf dem Rückseitenelement (2) anliegt.

2. Beutelhalter nach Anspruch 1, **dadurch gekennzeichnet, dass** ein Sektionsstreifen (11) zwischen der Feder (26) und dem Vorderseitenelement (1) montiert ist, der Sektionsstreifen vorzugsweise aus Metall hergestellt ist und einen im wesentlichen V-förmigen Querschnitt aufweist, wobei ein Schenkel (15) des V's von der Unterseite des Stegs der Flachfeder nach oben und hinten geneigt ist, wodurch der Sektionsstreifen dazu geeignet ist, mit seiner freien

Kante an der Unterseite des Vorsprungs (19) des Rückseitenelements (2) anzuliegen, wenn das Vorderseitenelement (1) um einen vorbestimmten Weg um die Rotationsachse nach außen gekippt ist.

3. Beutelhalter nach Anspruch 2, **dadurch gekennzeichnet, dass** der andere Schenkel (12) des V-förmigen Sektionsstreifens (11) an dem Vorderseitenelement (1) anliegt und einen gebogenen Steg (14) umfasst, der sich entlang der freien Kante davon erstreckt und an der Unterseite des Vorsprungs (9) des Vorderseitenelements (1) anliegt.
4. Beutelhalter nach Anspruch 2 oder 3, **dadurch gekennzeichnet, dass** in dem nach oben und schräg hinten vorragenden Schenkel (15) des Sektionsstreifens (11) eine Aussparung (16) vorgesehen ist, wobei die Aussparung das Montieren der Feder (26) an dem Vorderseitenelement erleichtert.
5. Beutelhalter nach einem oder mehreren der vorangegangenen Ansprüche 1 bis 4, **dadurch gekennzeichnet, dass** das Rückseitenelement (2) aus einem rostfreien bahnförmigen Material hergestellt ist.
6. Beutelhalter nach einem oder mehreren der vorangegangenen Ansprüche 1 bis 5, **dadurch gekennzeichnet, dass** das Vorderseitenelement (1) integral mit dem Betätigungsmittel (4) mittels eines Pressverfahrens aus einem Kunststoffmaterial gebildet ist.

Revendications

1. Support de sac pour sacs hygiéniques et à ordures, ledit support de sac comprenant un élément latéral arrière (2) et un élément latéral avant (1), chaque élément comportant des moyens d'assujettissement (5, 6) pour un sac (7) à leurs extrémités supérieures, l'élément latéral avant (1) et l'élément latéral arrière (2) étant reliés entre eux avec faculté de basculement essentiellement le long d'un axe horizontal de rotation situé en position adjacente à leurs extrémités inférieures, ledit élément latéral avant (1) et ledit élément latéral arrière (2) étant sollicités dans une position dans laquelle ils sont comprimés ensemble à l'aide de moyens de type ressort (26), et l'élément latéral arrière (2) comprenant des moyens (19, 20) pour suspendre le support de sac à une paroi, et l'élément latéral avant comprenant des moyens d'actionnement (4) disposés sous l'axe de rotation et faisant saillie vers l'avant et obliquement vers le bas de manière à être actionnés avec le pied lorsque l'ouverture du sac (7) doit être ouverte,

caractérisé en ce que l'élément latéral avant

(1) est conformé comme un écran destiné à recouvrir pratiquement tout le sac (7), et **en ce que** l'élément latéral avant (1) et l'élément latéral arrière (2) comprennent chacun au moins une saillie (9 et 19, respectivement), lesdites saillies (9, 19) faisant saillie l'une vers l'autre, la saillie (9) située sur l'élément latéral avant (1) étant apte à pouvoir basculer sur le bord libre de la saillie (19) de l'élément latéral arrière (2), de telle manière qu'elle aille au-delà de ladite saillie alors que le bord libre de la saillie (19) de l'élément latéral arrière s'appuie sur une surface en dessous de la saillie (9) sur l'élément latéral avant (1), la saillie située sur l'élément latéral arrière (2) étant prévue le long du bord inférieur dudit élément latéral arrière, et les moyens de type ressort comprennent un ressort plat (26) fixé à l'élément latéral avant (1) au-dessous de la saillie (9), ledit ressort plat ayant une section transversale sensiblement en forme de Z et permettant de solliciter l'élément latéral avant (1) autour de l'axe de rotation en direction de l'élément latéral arrière (2), une branche dudit ressort plat (26) étant assujettie à l'élément latéral avant (1), et la deuxième branche dudit ressort plat étant apte à venir en prise derrière la partie arrière de l'élément latéral arrière (2) et à s'appuyer sur cette partie arrière, alors que la partie s'étendant entre les deux nappes s'applique intimement sur la saillie (19) adjacente située sur l'élément latéral arrière (2).

2. Support de sac selon la revendication 1, **caractérisé en ce qu'une** barre profilée (11) est montée entre le ressort (26) et l'élément latéral avant (1), ladite barre profilée étant réalisée, de préférence, en métal et ayant une section transversale sensiblement en forme de V, une jambe (15) du V s'inclinant vers le haut et vers l'arrière à partir du côté inférieur de la branche du ressort plat, ladite barre profilée pouvant, grâce à son bord libre, s'appuyer sur le côté inférieur de la saillie (19) de l'élément latéral arrière (2) lorsque l'élément latéral avant (1) bascule d'une distance prédéterminée vers l'extérieur autour de l'axe de rotation.
3. Support de sac selon la revendication 2, **caractérisé en ce que** l'autre jambe (12) de la barre profilée (11) en forme de V s'appuie sur l'élément latéral avant (1) et comprend un élément (14) cintré s'étendant suivant son bord libre et s'appuyant sur le côté inférieur de la saillie (9) sur l'élément latéral avant (1).
4. Support de sac selon la revendication 2 ou 3, **caractérisé en ce qu'un** évidement (16) est prévu dans la jambe (15) faisant saillie obliquement vers le haut et vers l'arrière sur la barre profilée (11), ledit évidement facilitant le montage du ressort (26) sur l'élément latéral avant.

5. Support de sac selon une ou plusieurs des revendications précédentes 1 à 4, **caractérisé en ce que** l'élément latéral arrière (2) est réalisé en un matériau en feuille inoxydable.

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6. Support de sac selon une ou plusieurs des revendications précédentes 1 à 5, **caractérisé en ce que** l'élément latéral avant (1) est conformé d'une pièce avec les moyens d'actionnement (4) à partir d'une matière plastique par un procédé de compression.

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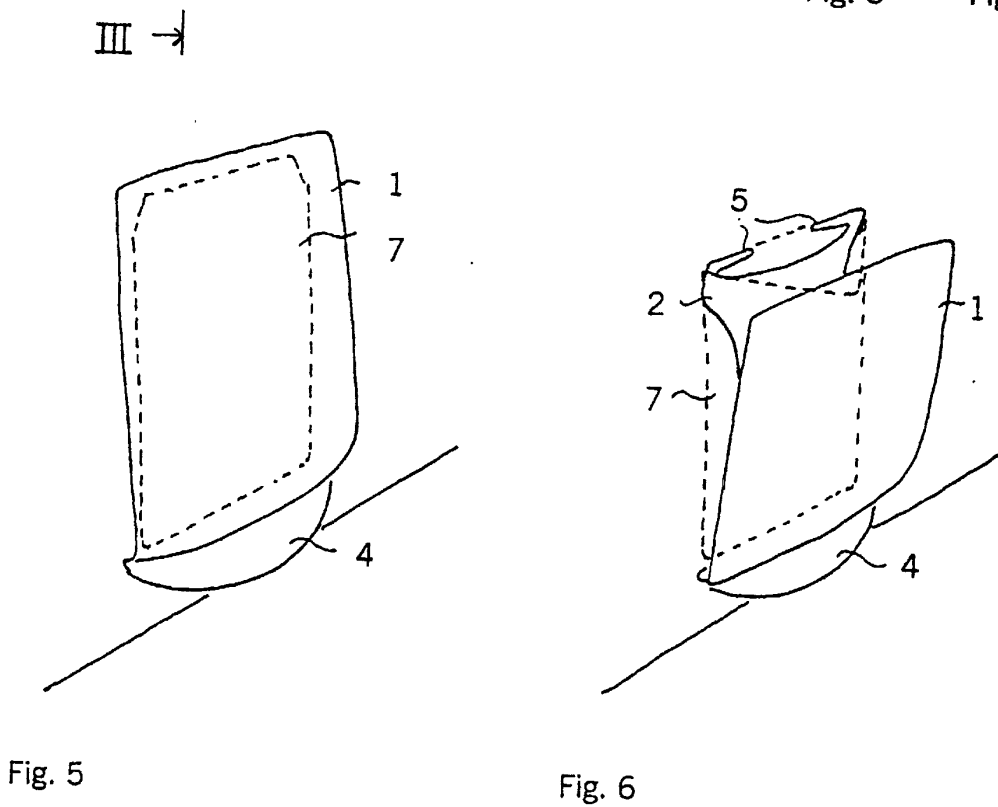
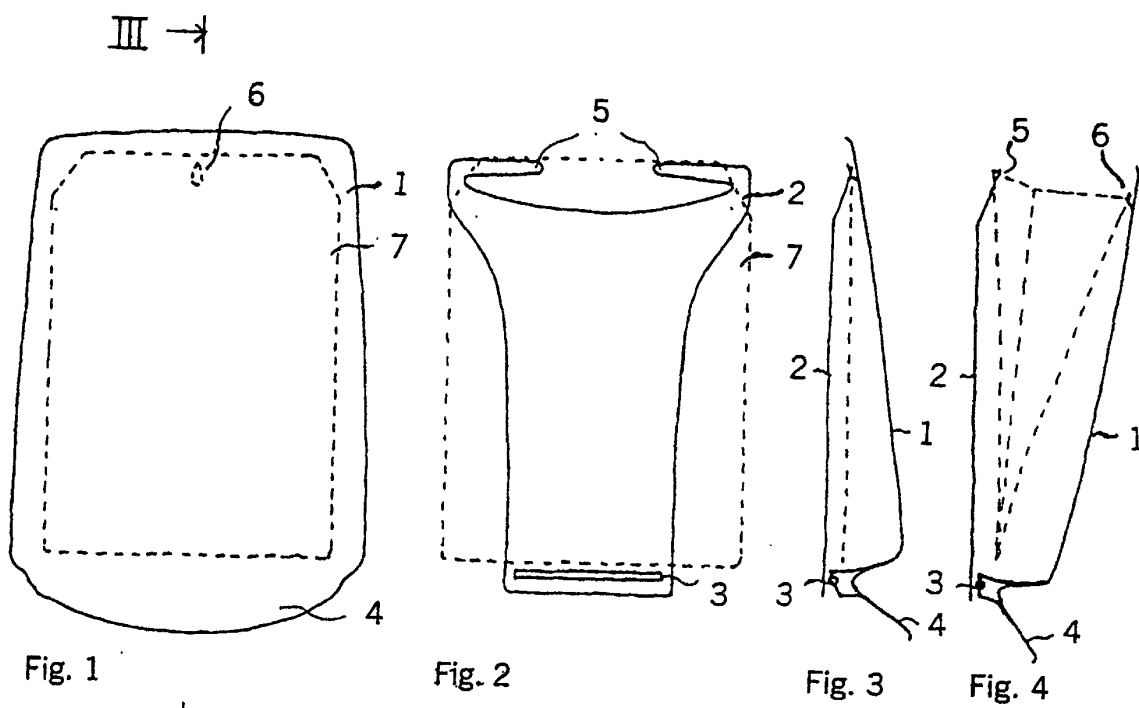
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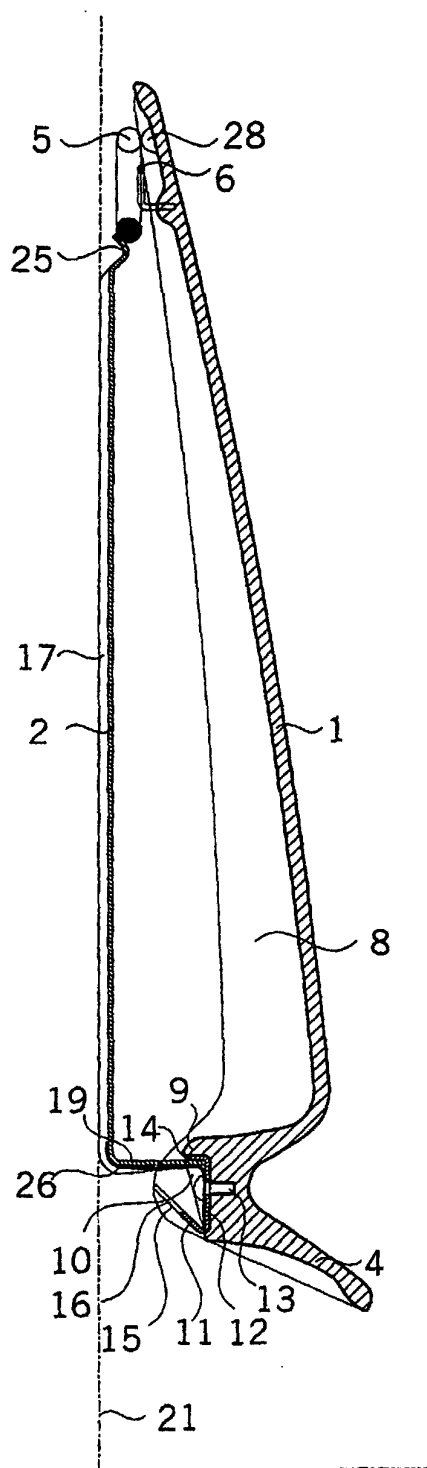


Fig. 7

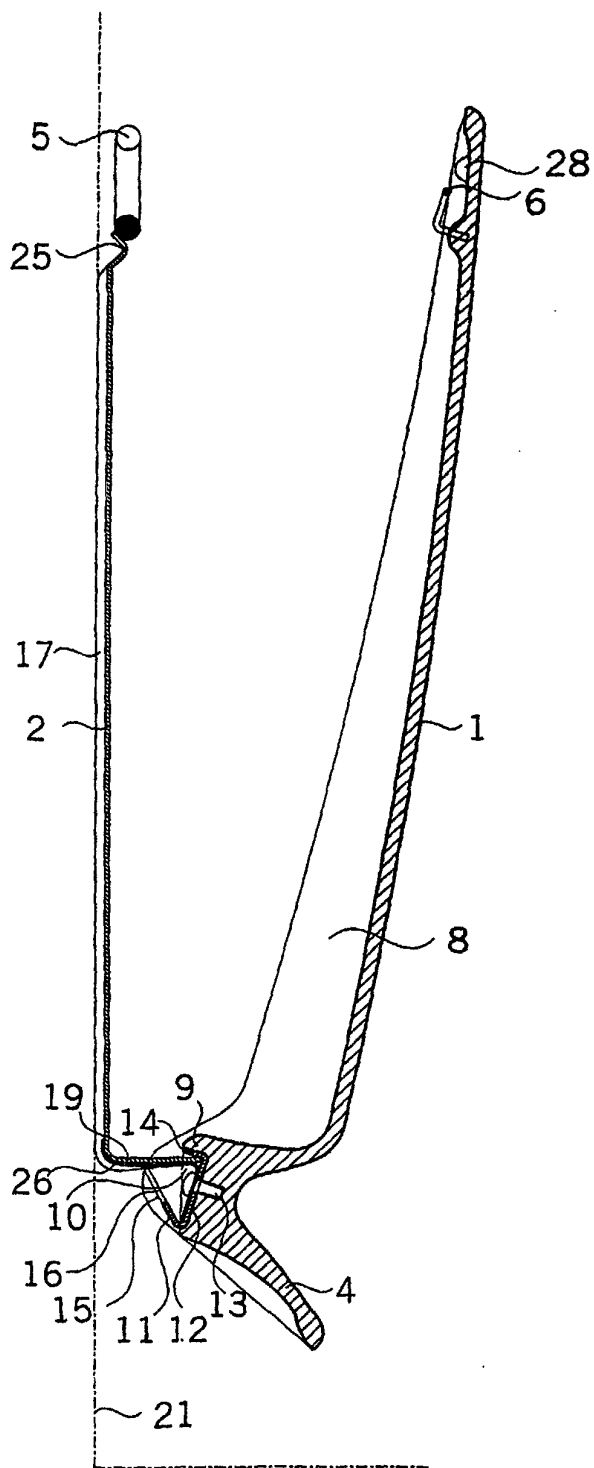


Fig. 8

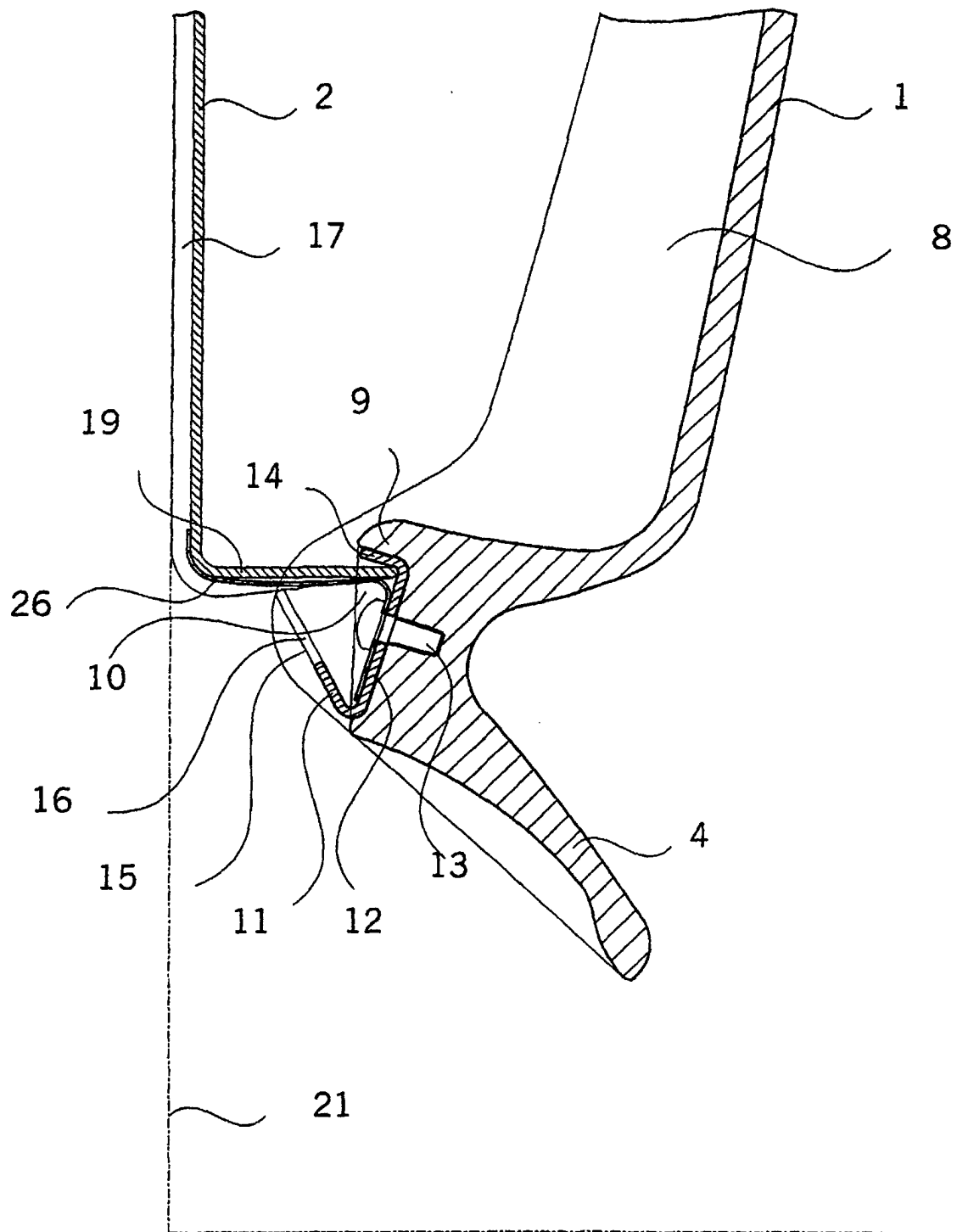


Fig. 9

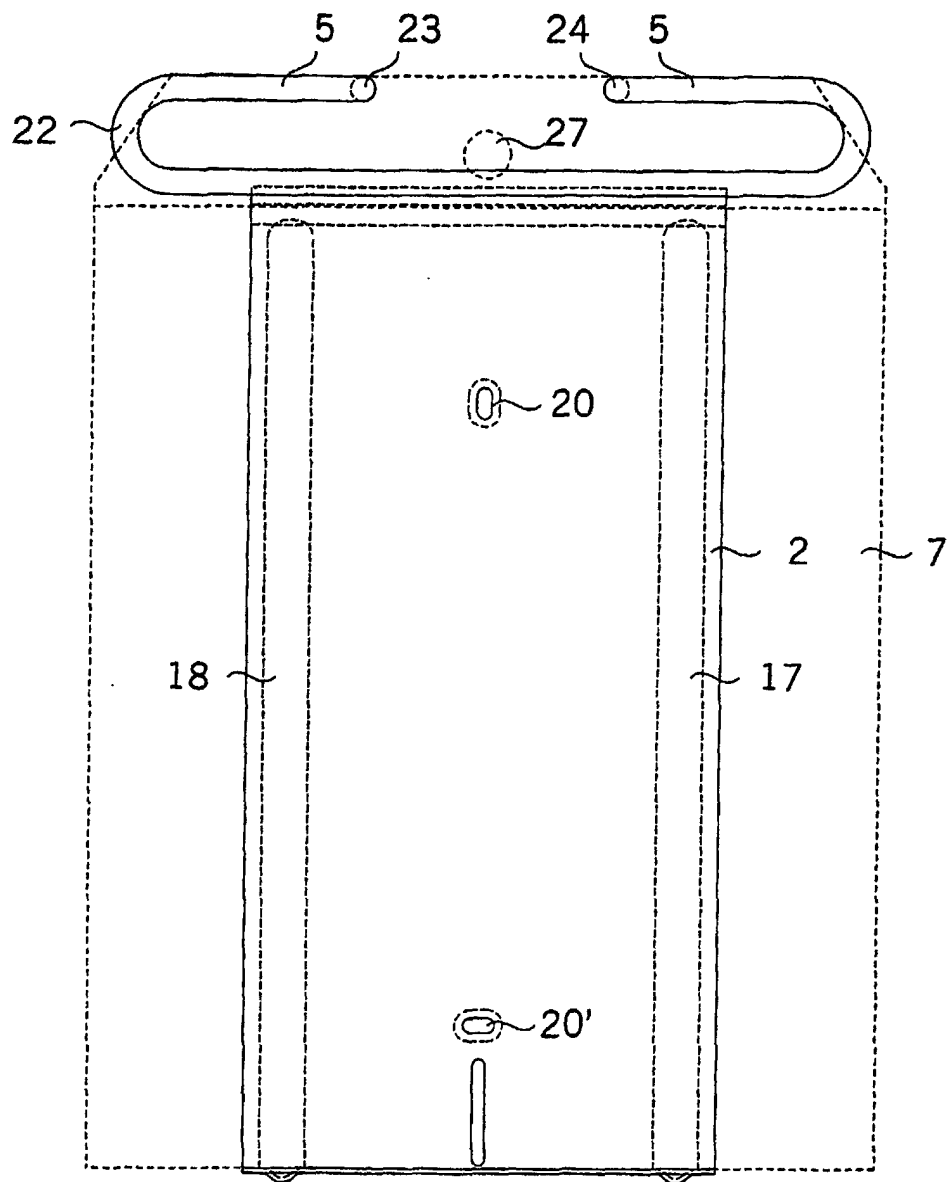


Fig. 10