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(12) # EUROPEAN PATENT SPECIFICATION

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(54) **Container for a hook and loop fastener.**

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US-A-4 191 293

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Description

The invention relates to a container for a hook and loop fastener, wherein the tape-shaped parts of the fastener are each received in the form of a roll, while the container comprises two compartments which each receive one of the rolls, the compartments being provided with a common outlet through which the co-operating tape-shaped component parts may be dispensed as a coupled hook and loop fastener.

A container of this type is known from LU—A—83.662. Herein the container consists of a parallelepiped hollow body in which the rolls of the hook and loop fastener are placed contiguously and one beside the other in contact by their working faces. The body has on one of its side walls an intermediate recess with two portions of said wall convergent to a slot through which the ends of said rolls in contact project.

It is an object of the present invention to provide an improved container, which is also very well suited to small rolls.

For this purpose the container according to the invention is characterized in that the cross-section of each compartment has the form of approximately a whole circle, whilst both compartments are aligned co-axially with their open areas facing each other and separated by a partition placed between them, each compartment being provided with an outlet portion, the two outlet portions being arranged in opposition to one another to form the common outlet.

The invention will hereafter be elucidated with reference to the drawing, which shows an embodiment by way of example of a container according to the invention for a hook and loop fastener.

Fig. 1 is a perspective view of the component parts of an embodiment of the container according to the invention for a hook and loop fastener.

Fig. 2 is a perspective view of the container for a hook and loop fastener which is assembled from the parts according to fig. 1.

Fig. 3 is a perspective view of the rolls of the two tape-shaped component parts of the hook and loop fastener, which are received in the container according to fig. 2.

The drawing shows an embodiment of the container for a hook and loop fastener, wherein the two tape-shaped component parts 1, 2 of the hook and loop fastener 8 are each received as a roll.

The container comprises two compartments 19, 20 which are aligned co-axially with their open areas facing each other and which each receive one of the rolls of the tape-shaped component parts 1, 2.

The cross-section of the compartments 19, 20 has the form of approximately a whole circle, while an outlet portion 21 connects to each compartment 19, 20. These two outlet portions 21 are arranged in opposition to one another to form a common outlet 22.

A partition 23 is positioned between the two compartments 19, 20 and comprises a recess 24 at the location of the outer end of the two outlet portions 21. The two outlet portions 21 are tangential with respect to their compartment 19 and 20 respectively and have a height, which decreases from the height of the compartment to approximately the thickness of the co-operating component parts 1, 2 of the hook and loop fastener. This latter height is already reached at some distance from the outlet 22.

As shown in fig. 2 the two component parts 1, 2 of the hook and loop fastener are each twisted a quarter turn in the co-operating outlet portion 21, whereafter they engage each other approximately at the location of the recess 24 in the partition 23, so that they may be pulled together through the common outlet 22 out of the container as a coupled hook and loop fastener.

The height of the compartments 19, 20 as well as the width of the outlet 22 substantially correspond with the width of the component parts 1, 2 of the hook and loop fastener, while the height of the outlet 22 substantially corresponds with the thickness of the hook and loop fastener 8. The tape-shaped component parts 1, 2 of the hook and loop fastener may be self-adhesive at the outer side, if desired, and may then be covered with silicone paper. In that case the height of the outlet 22 will of course be chosen accordingly.

If desired, the width of the outlet 22 may be such that the edges of the outlet 22 exert a slight pressure on the hook and loop fastener 8. Each compartment 19, 20 is provided with a central centring protrusion 25 in its outer wall. This central protrusion centres the co-operation roll of the tape-shaped components 1, 2. In this way it is allowed that the rolls maintain their position in their compartment 19, 20 until the end.

The container for a hook and loop fastener is composed of two blisters 26, 27, which each comprise a raised portion, which forms the outer wall 28 and the upstanding side wall 29 of one of the compartments 19, 20 and of the associated outlet portion 21. Each blister 26, 27 further comprises a flat wall portion 30, which is parallel to the outer wall 28 of its compartment 19 or 20 and which connects to the upstanding side wall 29 of this compartment 19 or 20 and of the associated outlet portion 21. The flat wall portions 30 of the two blisters 25, 26 are connected to opposite sides of the partition 23. This partition 23 forms an end wall of the compartments 19, 20 and is again provided with a suspension eye 31, so as to act as a carrier.

The invention is not restricted to the embodiment shown in the drawings by way of example which may be altered in several ways within the scope of the appended claims.

Claims

1. Container for a hook and loop fastener (8), wherein the two tape-shaped component parts (1, 2) of the fastener are each received in the form of a roll, while the container comprises two com-

partments (19, 20) which each receive one of the rolls, the compartments (19, 20) being provided with a common outlet (22) through which the co-operating tape-shaped component parts (1, 2) may be dispensed as a coupled hook and loop fastener (8), characterized in that the cross-section of each compartment (19, 20) has the form of approximately a whole circle, whilst both compartments (19, 20) are aligned co-axially with their open areas facing each other and separated by a partition (23) placed between them, each compartment (19, 20) being provided with an outlet portion (21), the two outlet portions (21) being arranged in opposition to one another to form the common outlet (22).

2. Container for a hook and loop fastener according to claim 1, characterized in that the two outlet portions (21) are approximately tangential with respect to their compartments (19, 20) and have a height, which decreases from the height of the compartment (19, 20) to approximately the thickness of the co-operating component parts (1, 2) of the hook and loop fastener (8).

3. Container for a hook and loop fastener according to claim 1 or 2, characterized in that the partition (23) comprises a recess (24) at the location of at least the outer end of the two outlet portions (21).

4. Container for a hook and loop fastener according to claim 1, 2 or 3, characterized in that the same is composed of two blisters (26, 27), which each comprise a raised portion, which forms the outer wall (28) and the upstanding side wall (29) of one of the compartments (19, 20) and of the associated outlet portions (21), while each blister (26, 27) further comprises a flat wall portion (30), which is parallel to the outer wall (28) of its compartment (19 or 20) and which connects to the upstanding side wall (29) of this compartment (19 or 20) and of the associated outlet portion (21), the flat wall portions (30) of the two blisters (26, 27) being connected to opposite sides of the partition (23), which forms an end wall of the compartments (19, 20) and which acts as a carrier.

5. Container for a hook and loop fastener according to any one of the preceding claims, characterized in that the height of the compartments (19, 20) and the width of the outlet (21) correspond with the width of the component parts of the hook and loop fastener.

6. Container for a hook and loop fastener according to any one of the preceding claims, characterized in that the height of the outlet (22) corresponds with the thickness of the hook and loop fastener (8).

7. Container for a hook and loop fastener according to any one of the preceding claims, characterized in that the width of the outlet (22) is such that its edges exert a slight pressure on the hook and loop fastener (8).

8. Container for a hook and loop fastener according to any one of the preceding claims, characterized in that each compartment (19, 20) comprises a central centring protrusion (25) in one of its end walls.

Patentansprüche

1. Behälter für einen Haken und Ösen aufeweisenden Klettenverschluss, dessen beide bandförmigen Bestandteile jeweils in Form einer Rolle im Behälter angeordnet sind, wobei der Behälter zwei Abteile (19, 20) aufweist, von denen jedes eine der Rollen aufnimmt, und die Abteile (19, 20) mit einem gemeinsamen Auslass (22) versehen sind, durch den die zusammengehörigen bandförmigen Bestandteile (1, 2) als gekuppelter Klettenverschluss (8) abgebbar sind, dadurch gekennzeichnet, dass der Querschnitt jedes Abteils (19, 20) die Form etwa eines vollen Kreises hat, dass beide Abteile (19, 20) miteinander ko-axial fluchten, wobei deren offenen Bereiche einander zugewandt sind, dass eine Trennwand (23) zwischen beiden Abteilen (19, 20) angeordnet ist, und dass jeder Abteil (19, 20) einen Auslassteil (21) aufweist, wobei diese beiden Auslassteile (21) einander gegenüberliegend angeordnet sind zur Bilding des gemeinsamen Auslassen (22).

2. Behälter nach Anspruch 1, dadurch gekennzeichnet, dass die zwei Auslassteile (21) etwa tangential zu ihren Abteilen (19, 20) verlaufen und eine Höhe haben, die von der Höhe des Abteils (19, 20) bis etwa auf die Dicke der zusammengehörigen Bestandteile (1, 2) des Kletttenverschlusses (8) abnimmt.

3. Behälter nach Anspruch 1 oder 2, dadurch gekennzeichnet, dass die Trennwand (23) an der Stelle wenigstens des Aussenendes der zwei Auslassteile (21) eine Ausnehmung (24) aufweist.

4. Behälter nach einem der Ansprüche 1 bis 3, dadurch gekennzeichnet, dass derselbe aus zwei Blistern (26, 27) zusammengesetzt ist, von denen jeder einen erhabenen Teil, welches die Aussenwandung (28) und die aufrechtstehende Seitenwandung (29) eines der Abteile (19, 20) und des zugehörigen Auslassteiles (21) bildet, und ausserdem ein ebenes Wandungsteil (30) aufweist, welches parallel zur Aussenwandung (28) seines Abteiles (19, 20) verläuft und mit der aufrechtstehenden Seitenwandung (29) dieses Abteils (19, 20) und des zugehörigen Auslassteils (21) verbunden ist, und dass die ebenen Wandungsteile (30) der beiden Blister (26, 27) mit gegenüberliegenden Seiten der Trennwand (23) verbunden sind, welche eine Abschlusswandung der Abteile (19, 20) bildet und als Träger eingesetzt ist.

5. Behälter nach einem der Ansprüche 1 bis 4, dadurch gekennzeichnet, dass die Höhe der Abteile (19, 20) und die Länge des Auslasses (22) der Breite der Bestandteile des Klettenverschlusses (8) entsprechen.

6. Behälter nach einem der Ansprüche 1 bis 5, dadurch gekennzeichnet, dass die Höhe des Auslasses (22) der Dicke des Klettenverschlusses (8) entspricht.

7. Behälter nach einem der Ansprüche 1 bis 6, dadurch gekennzeichnet, dass die Breite des Auslasses (22) für Ausübung eines leichten Druckes auf den Klettenverschluss (8) durch die Bänder des Auslasses (22) bemessen ist.

8. Behälter nach einem der Ansprüche 1 bis 7, dadurch gekennzeichnet, dass jedes Abteil (19, 20) einen zentralen Zentriervorsprung (25) an einem seiner Abschlusswandungen aufweist.

Revendications

1. Boîtier pour fermeture à crochet et boucle (8), dans lequel les deux éléments (1, 2) en forme de ruban de la fermeture sont logés chacun sous la forme d'un rouleau, et comprenant deux compartiments (19, 20) logeant chacun l'un des rouleaux et présentant une sortie commune (22) par laquelle les éléments coopérants, en forme de ruban, peuvent être distribués, pour constituer une fermeture assemblée à crochet et boucle (8), caractérisé en ce que la section transversale de chaque compartiment (19, 20) a à peu près la forme d'un cercle complet, tandis que les deux compartiments (19, 20) sont alignés co-axialement et étant séparées par une paroi (23) placée entre elles, chaque compartiment (19, 20) comportant une partie de sortie (21), les deux parties de sortie (21) étant disposées en opposition l'une à l'autre pour former la sortie commune (22).

2. Boîtier selon la revendication 1, caractérisé en ce que les deux parties de sortie (21) sont à peu près tangentes à leurs compartiments (19, 20) et présentent une hauteur qui diminue de la hauteur des compartiments (19, 20) jusqu'à sensiblement l'épaisseur des éléments coopérants (1, 2) de la fermeture à crochet et boucle.

3. Boîtier selon l'une des revendications 1 ou 2, caractérisé en ce que la cloison (23) présente un évidement (24) situé à l'emplacement d'au moins l'extrémité extérieure des deux parties de sortie (21).

4. Boîtier selon l'une quelconque des revendications 1, 2 ou 3, caractérisé en ce qu'il est composé de deux cloques (26, 27) comprenant chacune une partie surélevée que forme la paroi extérieure (28) et la paroi latérale (29), orientée vers le haut, de l'un des compartiments (19, 20) et d'une partie associée de sortie (21), chaque cloque (26, 27) comprenant en outre une paroi plate (30) qui est parallèle à la paroi extérieure (28) du compartiment (19 ou 20) associé et qui est reliée à la paroi latérale (29) de ce compartiment (19 ou 20) et de la partie associée de sortie (21), les parois plates (30) des deux cloques (26, 27) étant reliées à des faces opposées de la cloison (23) qui forme une paroi extrême des compartiments (19, 20) et qui assume la fonction d'un support.

5. Boîtier selon l'une quelconque des revendications précédentes, caractérisé en ce que la hauteur des compartiments (19, 20) et la longueur de la sortie (21) correspondent à la largeur des éléments constitutifs de la fermeture à crochet et boucle.

6. Boîtier selon l'une quelconque des revendications précédentes, caractérisé en ce que la largeur de la sortie (22) correspond à l'épaisseur de la fermeture à crochet et boucle (8).

7. Boîtier selon l'une quelconque des revendications précédentes, caractérisé en ce que la largeur de la sortie (22) est telle que ses bords exercent une légère pression sur la fermeture à crochet et boucle (8).

8. Boîtier selon l'une quelconque des revendications précédentes, caractérisé en ce que chaque compartiment (19, 20) comporte une saillie centrale (18 ou 25) de centrage sur l'une de ses parois extrêmes.

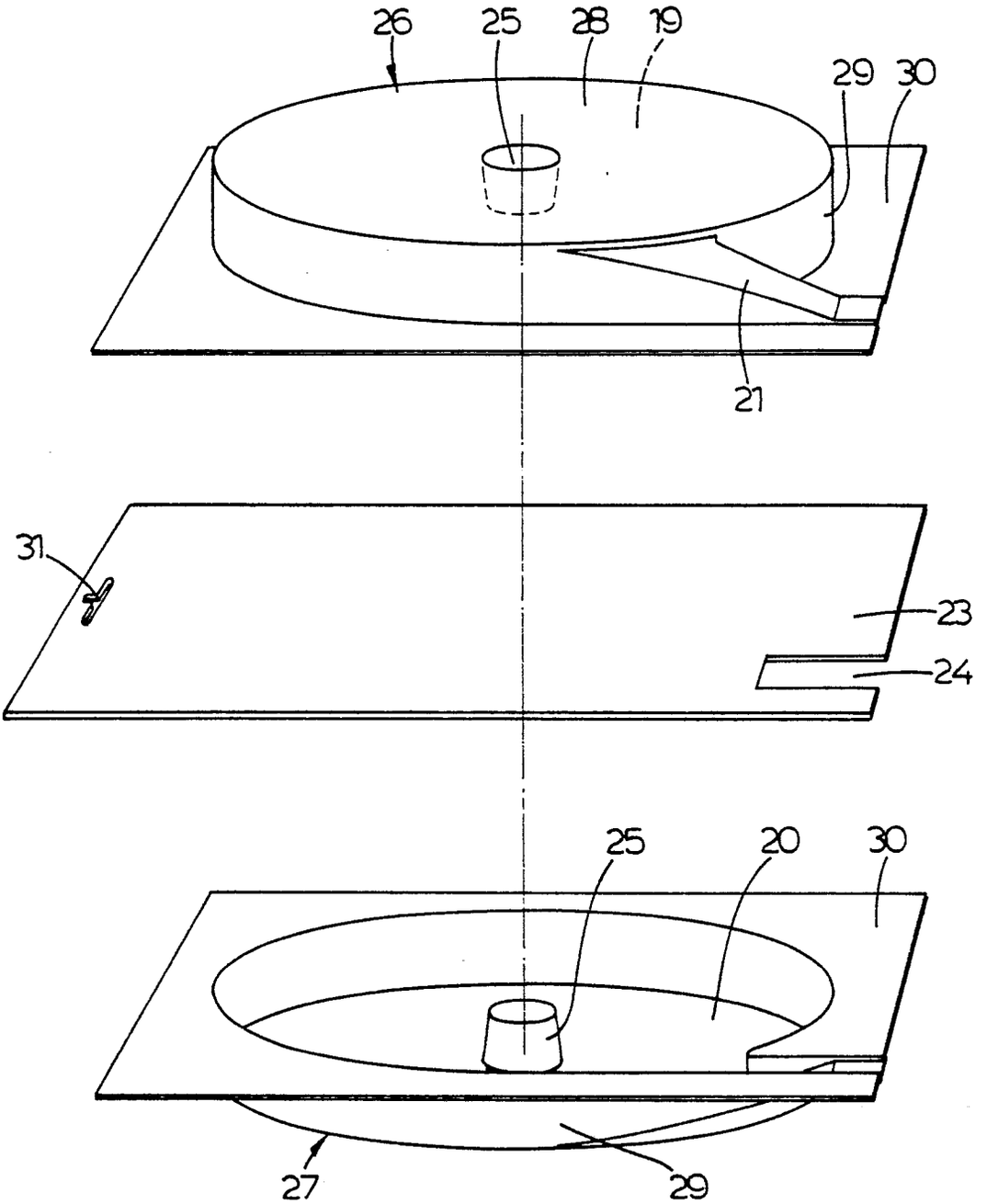

fig.1

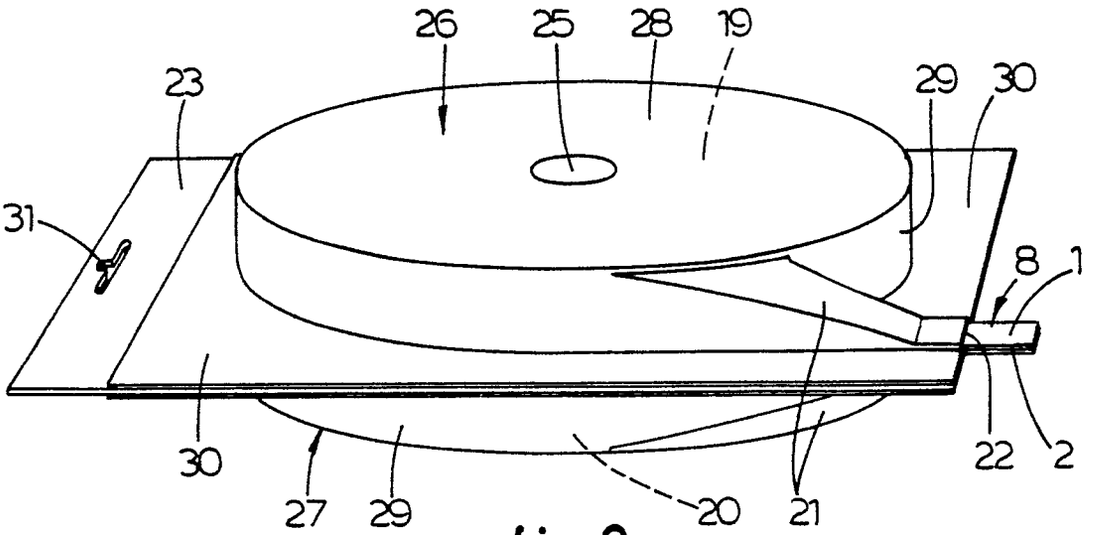

fig.2

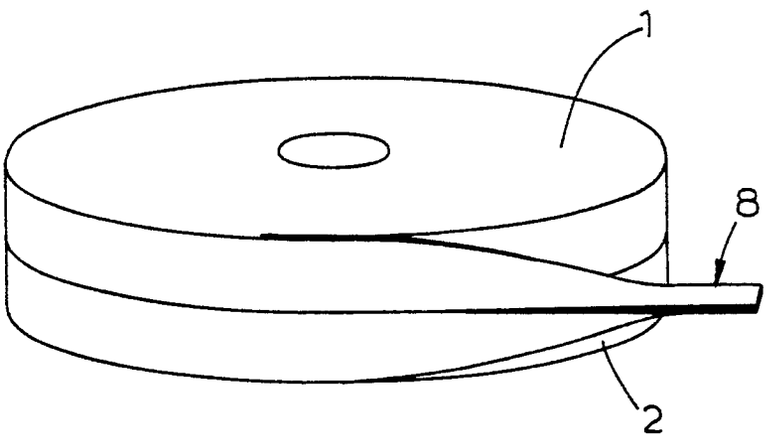

fig.3