(19) Europäisches Patentamt
European Patent Office
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(11) **EP 2 250 922 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
03.09.2014 Bulletin 2014/36

(51) Int Cl.:
A45C 9/00 *(2006.01)* ***A47B 3/10*** *(2006.01)*
A47F 5/10 *(2006.01)*

(21) Application number: **10446502.6**

(22) Date of filing: **06.05.2010**

(54) **Combined transport and exhibition device**

Kombinierte Transport- und Ausstellungsvorrichtung

Dispositif combiné de transport et d'étalage

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

(30) Priority: **06.05.2009 SE 0900617**

(43) Date of publication of application:
17.11.2010 Bulletin 2010/46

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Description

Technical field

[0001] The present invention is related to a combined transport and exhibition device for an exhibition stand according to the preamble portion of claim 1.

Background of the invention

[0002] Such combined transport and exhibition device for an exhibition stand are known from US 6318713 B1, US 2009/0078593 A1, WO 97/43932 and CN 2393837. Normally combined transport and exhibition devices are bulky and are not easy to handle. Hence, above all such devices are rather heavy which make them uncomfortable when used as a transport equipment.

Object of the invention

[0003] An object of the invention is to provide a combined transport and exhibition device which overcomes the drawbacks of the known devices and which is reliable as to its function and has a simple design.

[0004] Another object of the invention is to provide an easy to mount device which easy to mount as a transport device as well as a display unit for an exhibition stand.

Summary of the invention

[0005] The above objects are achieved by means of a combined transport and exhibition device having the features of the characterizing portion of claim 1.

[0006] The sub claims define preferred embodiments of the invention.

[0007] The combined transport and exhibition device according to the invention can be used in a more convenient way than the known devices. It is easier to pack it since the board which is situated at the middle of the storage space, when it is mounted as a transport unit, can be removed and then put back resting on a peripherally extending inner flange at the ridge of the bottom shell portion. The other shell portion has a similar flange so that when mounting the shell portions together to one unit the board is clamped between the flanges and makes the whole unite more stable.

[0008] Another advantage with the combined transport and exhibition device according to the invention is that the clasps which are used to tighten the shell portions, when used as a transport unit, are also used to mount the bars between the shell portions, when used as a display unit..

[0009] Further advantages will be apparent from the description below.

Brief description of the drawings

[0010] The invention will be described in closer detail in the following by way of a preferred embodiment thereof with reference to the annexed drawings.

Fig. 1 is a perspective view from above of a combined transport and exhibition device for an exhibition stand according to the invention mounted as a transport unit.

Fig. 2 is a cross-sectional view through the middle of the combined transport and exhibition device of fig. 1.

Fig. 3 is a perspective view from above of a combined transport and exhibition device for an exhibition stand according to the invention mounted as a display unit.

Fig. 4 is a view like fig. 3, wherein the display unit is covered by posters at the front side thereof.

Fig. 5 is a perspective view from above, but from another angle, showing the open back side of the display unit of fig. 4.

Fig. 6 is a cross-sectional view through the middle of the combined transport and exhibition device of fig. 5.

Fig. 7 is a perspective view from below of the combined transport and exhibition device mounted as a transport unit as in fig. 1.

Fig. 8 is a perspective view from below of the combined transport and exhibition device from the opposite side compared with fig. 7.

Fig. 9 is a partial perspective view in a greater scale of one corner of the combined transport and exhibition device when mounted as a transport unit.

Fig. 10 is a view similar to fig. 9 of the lower corner of the lower shell portion of the combined transport and exhibition device when mounted as a display unit.

Fig. 11 is a partial perspective view in a greater scale of the upper shell portion of the combined transport and exhibition device when mounted as a transport unit.

Fig. 12 is a partial section view in a greater scale of the lower shell portion with clasp and bar.

Fig. 13 is a view similar to fig. 9 of the lower corner of the lower

Fig. 14 is a perspective view of an exhibition stand with the combined transport and exhibition device

according to the invention

Description of preferred embodiments

[0011] In figs. 1 - 11 a preferred embodiment of a combined transport and exhibition device 1 according to the invention for an exhibition stand is shown in different mounting positions. In figs. 1, 2, 7, 8 and 9 the combined transport and exhibition device 1 is shown when mounted as a transport unit with storage possibilities for exhibition materials or the like. In figs. 3 - 6, 10 and 11 the combined transport and exhibition device 1 is shown when mounted as a display unit to be used as, e.g., a podium at a an exhibition stand or the like.

[0012] The combined transport and exhibition device 1 comprises two matching shell portions 2 and 3 and four clasps 2a and 3a, respectively, provided on each shell portion 2, 3 to keep the shell portions together when mounted as transport unit. The clasps 2a and 3a are positioned at the corners of the shell portions 2, 3 which have a substantially rectangular form with curved corners and slightly curved sides. When the shell portions 2, 3 are assembled, e.g., as shown in figs. 1 and 2, they interact to form two storage compartments 4a and 4b therebetween. The shell portions 2, 3 are substantially identical to their shape and are trough-shaped to form the storage compartments 4a, 4b. The meeting ridges 5, 6 of the shell portion has each a peripherally extending inner flange 7, 8. The distance between the flanges 7 and 8 of the shell portions 2, 3 is settled to receive a board 9 which, when used as a display unit, perform the function of a desk top (see especially fig. 3 - 6). The board 9 is thus clamped between the flanges 7, 8 in the inside of the storage space and dividing the space into two compartments 4a, 4b.

[0013] Each clasp 2a, 3a is hinged to respective shell portion 2, 3 and has a grasping groove 2b (see figs. 9, 10 and 12) a predetermined distance from the hinge axis 10 for engagement of a rod part of a rectangular ring 11 attached at each end of a detachable strap12 , preferably of an elastic material. In fig. 11, one can see that the straps could be fastened to one of the clasps at one end to facilitate the mounting. A corresponding grove (not shown) is provided on each clasp 3a on the other shell portion 3. Each clasp 2a, 3a is able to be moved from an open position, as in fig. 10, to a closed position, as in fig. 9, against the outer surface of the shell portion, thereby tightening said strap.

[0014] When used as a display unit, as is best illustrated in figs. 3 - 5, the shell portions 2, 3 are turned around with the outer surfaces facing each other so that four bars 13 can be connected to and arranged between two oppositely arranged clasp means 2a and 3a (see figs. 10 and 11) on each shell portion 2, 3, thereby forming a display unit for exhibitions or the like. At each end of each bar 13, snap means 13a are provided which each is able to receive a releasably connectable hook 14 which is provided at the end of each clasp 2a, 3a. The snap means 13a are mounted in a recess in each end of each bar 13 and are hinged at 30 at the bar 13 and consists of a grip portion 31 at one en which comes to engagement with the hook 14 and at the other end has a helical spring 32 which urges the other end of the snap means 13a outwardly to enable engagement of the hook 14 and the Each clasp 2, 3 is provided with a base plate 15 which has two holes through which fasteners 16, such as rivets or screws, are penetrated to fasten the clasps 2a and 3a at the shell portions 2 and 3, respectively.

[0015] As can be seen in fig. 12, at the end of the base plate 15 opposite the hinge axis 10 a snap hook 17 is provided which, when the device is mounted as a transport unit, snaps into a recess 18 formed in a hole 19 in each clasp 2a, 3a.

[0016] At least one poster 20 (see figs. 4 and 5) are releasably attached in a known manner, e.g., by means of magnetic strips, at the outer periphery of the shell portions 2, 3. The posters 20 can act to stabilize the whole construction., when used as a display unit

[0017] In the drawings four clasps 2a, 3a on each shell portion 2, 3 are shown which clasps cooperate with four straps 12, when mounted as a transport unit, and four bars 13, when mounted as a display unit. Of course this number can be altered to any known number or at least two or three with stabilization aid by means of the poster or posters 20, but it is preferred, for the optimal stability of the combined transport and exhibition device 1, to use four clasps 2a, 3a on each shell portion 2, 3.

[0018] It should be noted, that at least one cover board is provided which covers over the open space of the uppermost shell portion when forming a display unit for exhibitions, demonstrations or the like. The board 9 has a recess 9a at the middle of one side which is used to lift up the board for getting access to the storage space in the upper shell 2 when used as a display unit. On the opposite side of the board 9 detachable hinges (not shown) could be provided.

[0019] Interior fittings, as at least one shelf 21, are mountable within said display unit by means of a framework 22.

[0020] In fig. 13 a packed device 1 is shown when used as a transport unit. In the upper space 4a, above the board 9 equipment material, such as at least one rolled poster 20, at least one shelf 21 and framework for supporting the shelf 21, can be accommodated. In the lower space 4b, other exhibition materials such as other, not shown posters, roll-up stands 23 and illumination devices 24 can be accommodated. This means that a substantially complete exhibition stand can be transported within the combined transport and exhibition device 1 according to the invention.

[0021] As can be seen in fig. 7 and 8 , one of the shell portions is provided with wheels 25 and a handle 26 to facilitate transportation of the device 1 when it is mounted as a transport unit.

[0022] If no wheels are mounted and when it is referred to the upper and the lower it should be understood that

the shells 2 and 3 of the device 1 according to the invention can be identical so that the upper shell 2 can act as the lower shell 3 and vice versa.

[0023] It should be noted that the combined transport and exhibition device for an exhibition stand according to the invention is not limited to the above described embodiment, but could be modified within the scope of the appended claims.

Claims

1. A combined transport and exhibition device (1) for an exhibition stand, comprising two matching shell portions (2, 3) and at least two oppositely arranged clasp means (2a, 3a) provided on each shell portion to keep said shell portions together and interacting to form a storage space (4) within said tightened shell portions, when mounted as a transport unit, and further comprising at least two bars (13) which are releasably connectable to each shell portion, when mounted as a display unit to be used as a podium or a desk, **characterized in that** said oppositely arranged clasp means (2a, 3a) are, when mounted as a transport unit, releasably connectable to each other, **in that** said oppositely arranged clasp means being, when mounted as a display unit to be used as a podium or a desk, connectable to the ends of said at least two bars (13) with stabilizing help of at least one poster (20), which is releasably fastened in a known way on the outside of said shell portions, and **in that** each one of said clasp means is hinged to respective shell portion and has a grasping groove (2b, 3b) a predetermined distance from the hinge axis (10) for engagement of a rod part of a rectangular ring (11) attached at each end of a detachable strap (12), preferably of an elastic material, each clasp means being able to be moved to a closed position against the outer surface of said shell portions, thereby tightening said strap to form the storage space.

2. A device (1) according to claim 1, **characterized in that** said shell portions (2, 3) are substantially identical to their shape and are trough-shaped to form said storage space (4).

3. A device (1) according to claim 1 or 2, **characterized in that** the bars (13) are releasably connectable to the end parts (14) of said two oppositely arranged clasp means (2a, 3a) when mounted as a display unit.

4. A device (1) according to anyone of claim 1 - 3, **characterized in that** said shell portions (2, 3), when mounted as a display unit, are turned around, so that the outer surfaces face each other.

5. A device (1) according to anyone of claim 1 - 4, **characterized in that** a board (9) is provided which covers the open space of the uppermost shell portion (2) when mounted as a display unit.

6. A device (1) according to claim 5, **characterized in that** said board (9) is clamped between flanges (7, 8) at an inside periphery ridge (5, 6) of each shell portion (2, 3) when mounted as a transport unit.

7. A device (1) according to anyone of claims 1 - 6, **characterized in that** fitments (21, 22), as at least one shelf by means of a framework, are mountable within said device when mounted as a display unit.

8. A device (1) according to anyone of claims 1 - 7, **characterized in that** it, when used as a transport unit, is divided into two inner compartments (4a, 4b), wherein one compartment could be used to accommodate materials of the device (1) and the other compartment to accommodate other equipment, as roll-up stands (23) illumination equipment (24) or the like.

Patentansprüche

1. Kombinierte Transport- und Ausstellungsvorrichtung (1) für einen Ausstellungsstand, umfassend zwei passende Gehäuseabschnitte (2, 3) und wenigstens zwei gegenüberliegend angeordnete Verschlussmittel (2a, 3a), die an jedem Gehäuseabschnitt bereitgestellt sind, um die Gehäuseabschnitte zusammen zu halten und die zusammenwirken, um einen Aufbewahrungsraum (4) innerhalb der zusammengezogenen Gehäuseabschnitte zu bilden, wenn sie als eine Transporteinheit montiert ist, und weiterhin umfassend wenigstens zwei Leisten (13), die lösbar mit jedem der Gehäuseabschnitte verbunden sind, wenn sie als eine Präsentationseinheit montiert ist, um als ein Podium oder ein Tisch verwendet zu werden,
dadurch gekennzeichnet, dass die gegenüberliegend angeordneten Verschlussmittel (2a, 3a) lösbar miteinander verbindbar sind, wenn sie als eine Transporteinheit montiert ist, dass die gegenüberliegend angeordneten Verschlussmittel an den Enden der wenigstens zwei Leisten mit stabilisierender Unterstützung von wenigstens einem Poster (20) verbindbar sind, das lösbar in einer bekannten Art und Weise an der Außenseite der Gehäuseabschnitte befestigt ist, wenn sie als eine Präsentationseinheit montiert ist, um als ein Podium oder ein Tisch verwendet zu werden, und dass jedes der Verschlussmittel in einen entsprechenden Gehäuseabschnitt eingehängt ist und eine Eingriffsnut (2b, 3b) in einer vorbestimmten Entfernung von der Einhängachse (10) aufweist zum Eingriff eines Stababschnitts eines rechteckigen Rings (11), der an jedem

Ende eines lösbaren Bands (12) angebracht ist, vorzugsweise aus einem elastischen Material, wobei jedes Verschlussmittel in der Lage ist in eine geschlossene Position bewegt zu werden gegen die Außenfläche der Gehäuseabschnitte, wodurch das Band zusammengezogen wird, um den Aufnahmeraum zu bilden.

2. Vorrichtung (1) gemäß Anspruch 1, **dadurch gekennzeichnet, dass** die Gehäuseabschnitte (2, 3) im Wesentlichen identisch bezüglich ihrer Form sind und in Wannenform vorliegen, um den Aufnahmeraum (4) zu bilden.

3. Vorrichtung (1) gemäß Anspruch 1 oder 2, **dadurch gekennzeichnet, dass** die Leisten (13) lösbar mit den Endteilen (14) der zwei gegenüberliegend angeordneten Verschlussmittel (2a, 3a) verbindbar sind, wenn als sie eine Präsentationseinheit montiert ist.

4. Vorrichtung (1) gemäß irgendeinem der Ansprüche 1-3, **dadurch gekennzeichnet, dass** die Gehäuseabschnitte (2, 3) umgedreht werden, wenn sie als eine Präsentationseinheit montiert ist, so dass die Außenflächen einander zugewandt sind.

5. Vorrichtung (1) gemäß irgendeinem der Ansprüche 1-4, **dadurch gekennzeichnet, dass** eine Platte (9) bereitgestellt ist, die den offenen Raum des obersten Gehäuseabschnitts (2) abdeckt, wenn als sie eine Präsentationseinheit montiert ist.

6. Vorrichtung (1) gemäß Anspruch 5, **dadurch gekennzeichnet, dass** die Platte (9) zwischen Flanschen (7, 8) an inneren Randerhöhungen (5, 6) jedes Gehäuseabschnitts (2, 3) eingeklemmt ist, wenn sie als eine Transporteinheit montiert ist.

7. Vorrichtung (1) gemäß irgendeinem der Ansprüche 1-6, **dadurch gekennzeichnet, dass** Ausstattungen (21, 22) als wenigstens ein Regal durch eine Rahmenkonstruktion innerhalb der Vorrichtung montierbar sind, wenn sie als eine Präsentationseinheit montiert ist.

8. Vorrichtung (1) gemäß irgendeinem der Ansprüche 1-7, **dadurch gekennzeichnet, dass** sie, wenn sie als eine Transporteinheit verwendet wird, in zwei innere Kammern (4a, 4b) geteilt ist, wobei eine Kammer verwendet werden kann, um Materialien der Vorrichtung zu beherbergen, und die andere Kammer, um andere Ausrüstung zu beherbergen, wie Einrollständer (23), Beleuchtungsausrüstung (24) oder dergleichen.

Revendications

1. Dispositif combiné de transport et d'exposition (1) pour un stand d'exposition, comprenant deux parties formant coque (2, 3) en correspondance et au moins deux moyens formant attaches (2a, 3a) agencés de façon opposée, prévus sur chaque partie de coque afin de maintenir lesdites parties formant coque ensemble et interagissant à l'état serré pour former un espace de stockage (4) dans lesdites parties formant coque, lors d'un montage sous la forme d'une unité de transport, et comprenant en outre au moins deux barres (13) qui sont aptes à être reliées de manière amovible à chaque partie de coque, lors d'un montage sous la forme d'une unité d'affichage destinée à être utilisée en tant que podium ou bureau, **caractérisé en ce que** lesdits moyens formant attaches (2a, 3a) agencés de façon opposée sont, lors du montage sous la forme d'une unité de transport, aptes à être reliés de façon amovible l'un à l'autre, **en ce que** lesdits moyens formant attaches disposés de manière opposée sont, lors du montage sous la forme d'une unité d'affichage destinée à être utilisée en tant que podium ou bureau, aptes à être reliés aux extrémités desdites au moins deux barres (13) avec l'aide stabilisatrice d'au moins une affiche (20) qui est fixée de manière amovible, de façon connue, à l'extérieur desdites parties formant coque, et **en ce que** chacun desdits moyens formant attaches est articulé sur la partie de la coque correspondante et a une rainure de préhension (2b, 3b) située à une distance prédéterminée de l'axe d'articulation (10) pour l'engagement d'une partie formant tige d'un anneau rectangulaire (11) fixé à chaque extrémité d'une sangle détachable (12), de préférence en un matériau élastique, chaque moyen formant attache étant apte à être déplacé vers une position de fermeture contre la surface extérieure desdites parties formant coque, afin de serrer de ce fait ladite sangle pour former l'espace de stockage.

2. Dispositif (1) selon la revendication 1, **caractérisé en ce que** lesdites parties formant coque (2, 3) sont sensiblement identiques dans leur forme et sont en forme d'auge pour former ledit espace de stockage (4).

3. Dispositif (1) selon la revendication 1 ou 2, **caractérisé en ce que** les barres (13) sont aptes à être reliées de façon amovible aux parties d'extrémité (14) desdits deux moyens formant attaches (2a, 3a) agencés de façon opposée lors du montage sous la forme d'une unité d'affichage.

4. Dispositif (1) selon l'une quelconque des revendications 1 à 3, **caractérisé en ce que** lesdites parties formant coque (2, 3), lors du montage sous la forme d'une unité d'affichage, sont tournées de sorte que

les surfaces extérieures se font face.

5. Dispositif (1) selon l'une quelconque des revendications 1 à 4, **caractérisé en ce qu'**un panneau (9) est prévu, qui recouvre l'espace ouvert de la partie de coque supérieure (2) lors du montage sous la forme d'une unité d'affichage.

6. Dispositif (1) selon la revendication 5, **caractérisé en ce que** ledit panneau (9) est serré entre des brides (7, 8) au niveau de l'intérieur d'un rebord périphérique (5, 6) de chaque partie de coque (2, 3) lors du montage sous la forme d'une unité de transport.

7. Dispositif (1) selon l'une quelconque des revendications 1 à 6, **caractérisé en ce que** des montures (21, 22), telle qu'au moins une étagère au moyen d'un cadre, sont aptes à être montées à l'intérieur dudit dispositif lors du montage sous la forme d'une unité d'affichage.

8. Dispositif (1) selon l'une quelconque des revendications 1 à 7, **caractérisé en ce que**, lorsqu'il est utilisé en tant qu'unité de transport, est divisé en deux compartiments internes (4a, 4b), un compartiment étant apte à être utilisé pour recevoir des matériaux du dispositif (1) et l'autre compartiment pour recevoir d'autres équipements, tels que des supports enroulés (23), de l'équipement d'éclairage (24) ou analogue.

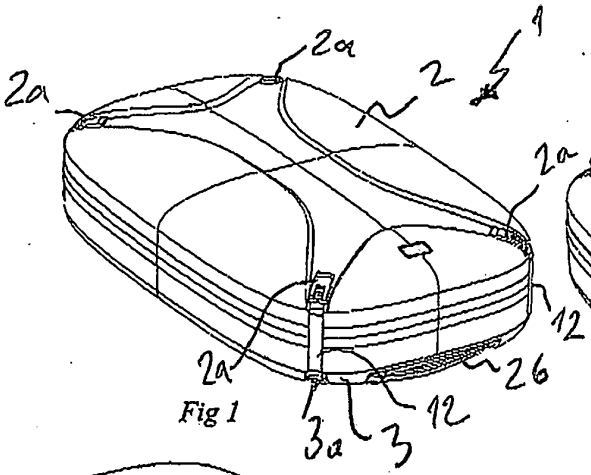


Fig 1

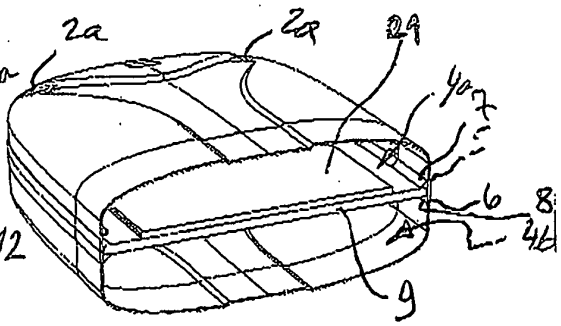


Fig 2

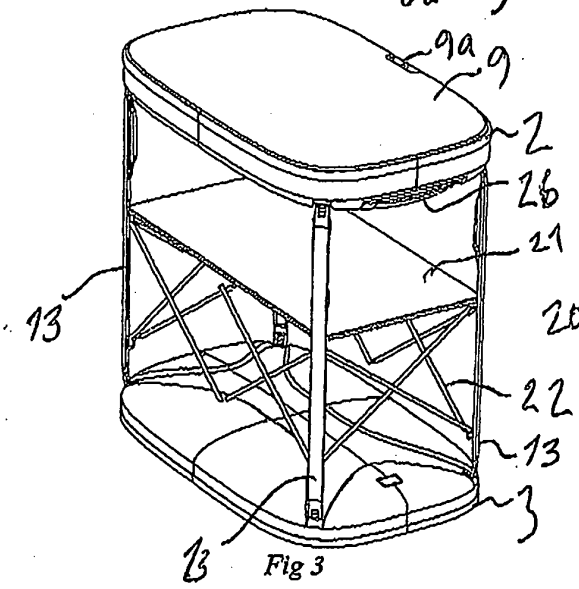


Fig 3

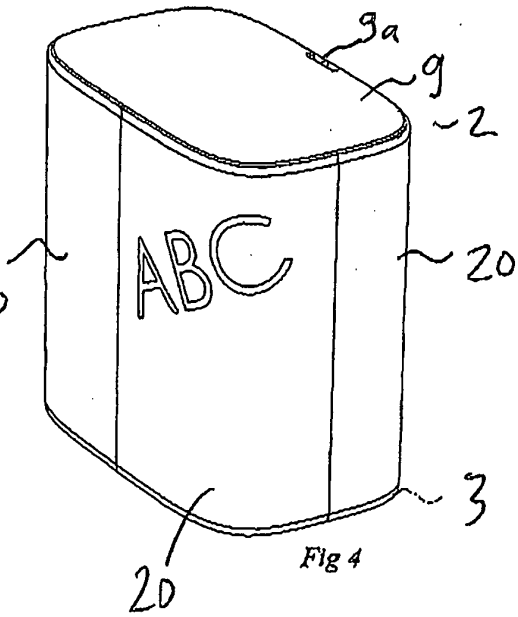


Fig 4

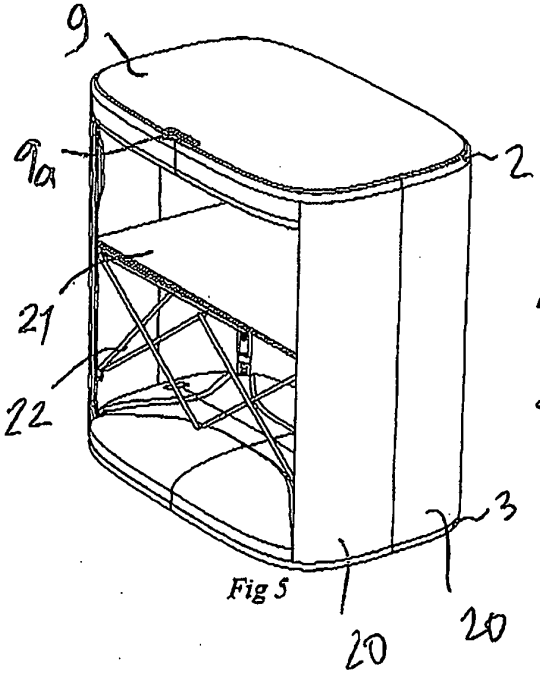


Fig 5

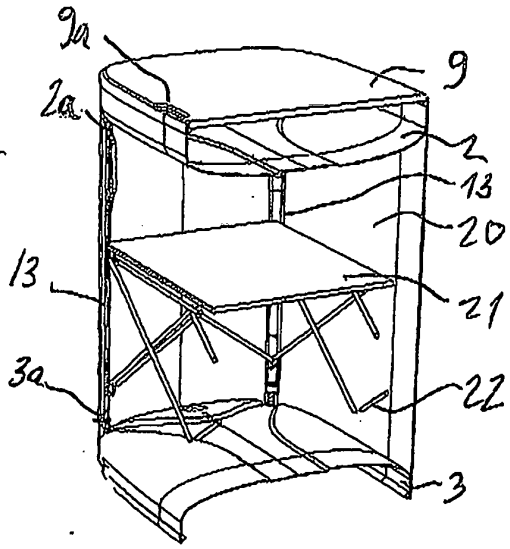


Fig 6

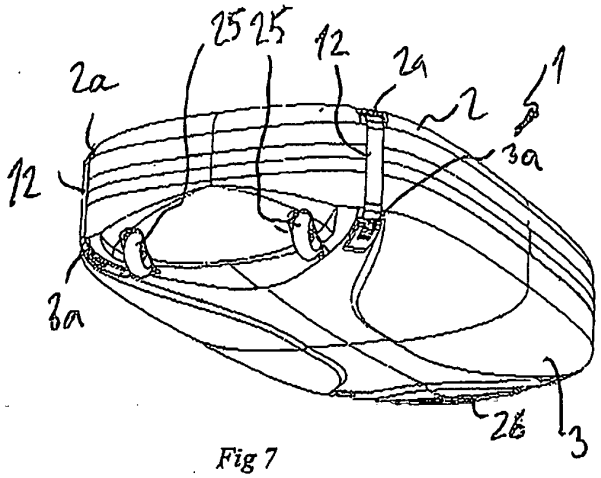


Fig 7

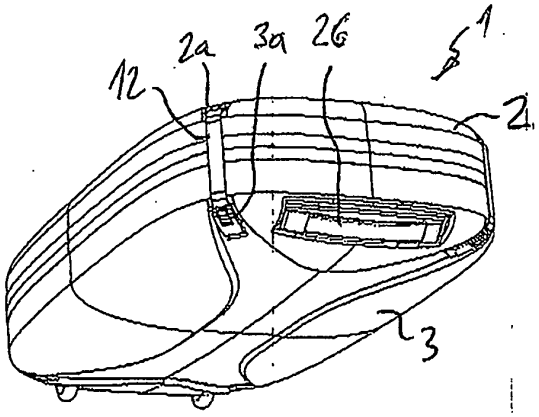


Fig 8

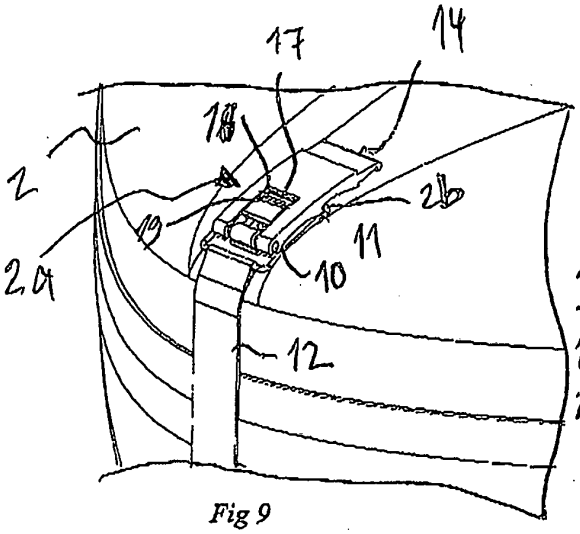


Fig 9

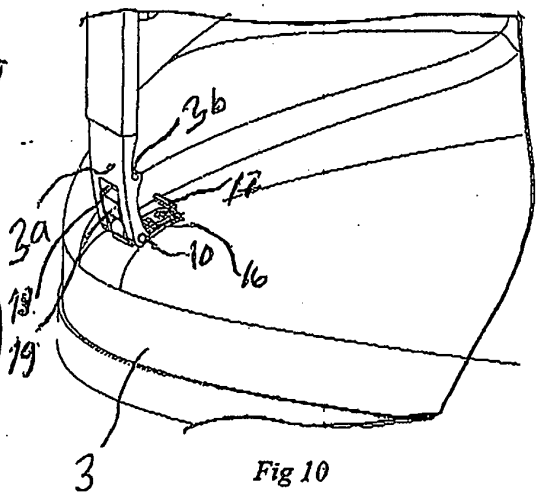


Fig 10

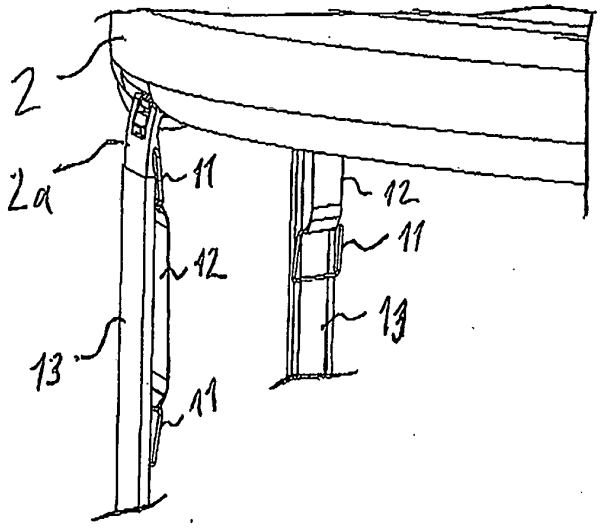


Fig 11

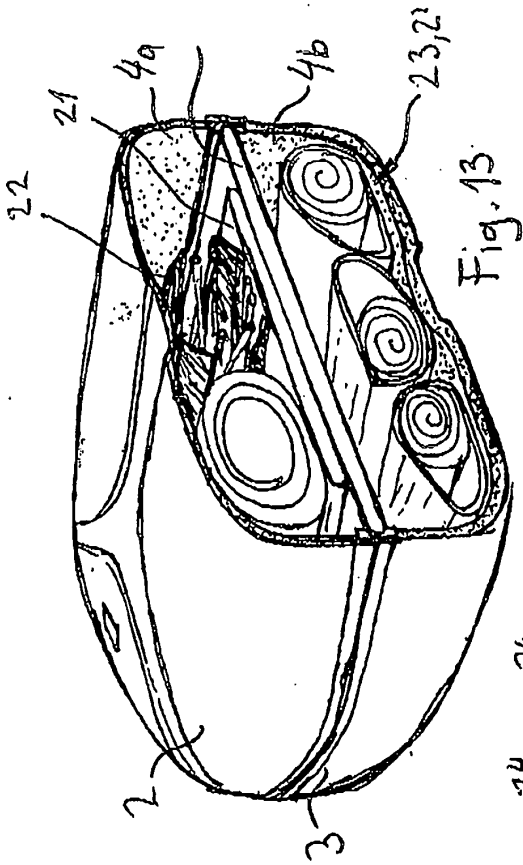


Fig. 13

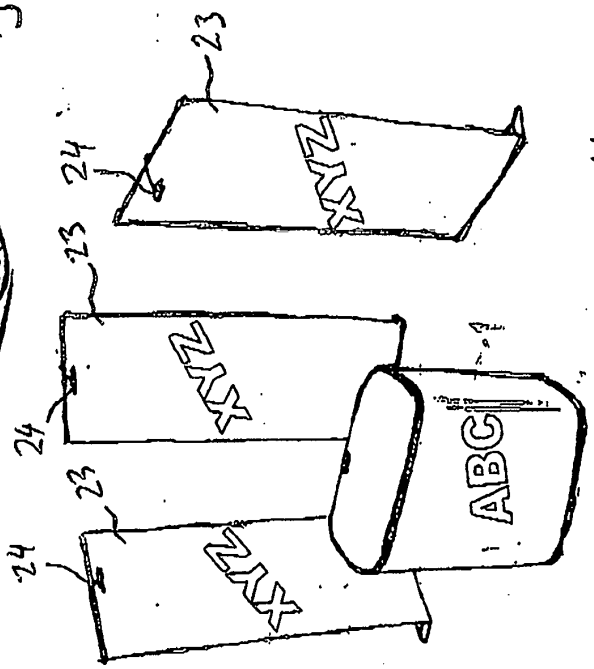


Fig. 14

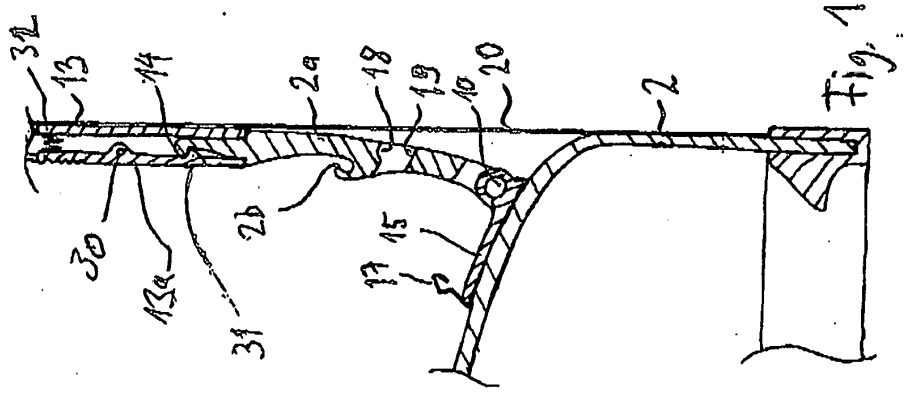


Fig. 12

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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- WO 9743932 A **[0002]**
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