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AT-A1- 507 858

DESCRIPTION

[0001] The present invention relates to a container, and more particularly, to a container for the transport of consumer products, and their display in a retail outlet.

[0002] Collapsible containers are known for use in many applications, including retail delivery. Typically, the containers are formed of plastics material and comprise a base and two pairs of opposed walls. Both the pairs of walls pivot about the base, at the lower edges thereof, so that the container can be collapsed into a substantially flat position when not in use.

[0003] In applications where collapsible containers and nesting containers (with smaller base dimensions) are used together, solutions are known that provide stacking rails or bars that enable nesting containers to be stacked onto collapsible containers. In order to get bars sufficiently inboard to allow easy stacking location it is required that the normal method of folding the short ends first, be reversed (see GB 2359066). Using stacking rails (see GB 2431917) gives conventional folding but does not allow the rail to come inboard far enough. Both these issues make handling difficult.

The Austrian patent application 8507858 A1 refers to a foldable box having a locking mechanism being based on a rotatable axis. The patent application having the publication number WO 03/055753 A1 refers to a collapsible container comprising a base, lateral walls and a catch mechanism for the lockable lateral walls in their assembled position.

In addition, during handling of the containers, the stacking bars may accidentally become detached from the container. The present application helps to overcome these issues and relates to a collapsible container comprising a locking element, wherein the container is substantially as described in UK Patent Publication No. 2476856 by the same Inventor.

[0004] In a first aspect, the disclosure of related prior art, which does not form part of present invention relates to a collapsible container comprising a base, a first pair of opposed walls and a second pair of opposed walls, the first pair of opposed walls and the second pair of opposed walls defining an opening in the top of the container, wherein the container further comprises at least one stacking member which, when the container is erect, is movable between a stacking position in which the stacking member is positioned to support the base of another container thereon and a filling position in which the stacking member is substantially removed from the opening in the top of the container, and wherein the container further comprises at least one locking element for securing the at least one stacking member to the container. The provision of the at least one locking element is advantageous as it prevents the unwanted detachment of the at least one stacking member from the container during operation, for example, during handling, folding or washing of the container.

[0005] Preferably, the at least one locking element comprises a snap fit securing means. The provision of a locking element comprising a snap fit securing means assists with the engagement of the stacking member with the container. In addition, the provision of a snap fit

securing means has the advantage that the stacking member may be detachable if needed. Advantageously, the at least one locking element may comprise a resilient securing means.

[0006] Preferably, the at least one locking element is provided on the at least one stacking member. Thus, in the event that the locking element is damaged during use, it will be necessary to replace only the stacking member, rather than the entire container.

[0007] Preferably, the at least one locking element is integrally formed on the at least one stacking member. Advantageously, the integral formation of the locking element on the stacking member provides a structure which is more robust than that produced when the locking element and stacking member are provided separately and subsequently attached to one another. Furthermore, the integral formation of the locking element on the stacking member advantageously makes the stacking member cheaper and easier to manufacture.

[0008] Advantageously, the provision of the at least one locking element assists in the folding of the container from an unfolded position to a folded position. In addition, the provision of the at least one locking element advantageously improves the longevity of the container.

[0009] Typically, the at least one stacking member comprises an elongate bar and two legs at the extremities thereof, wherein the at least one locking element is provided at one end of at least one of the legs. The position of the at least one locking element at one end of the leg of the at least one stacking member has the effect that, after engagement of the at least one stacking member with the container, the at least one stacking member can pivot about the container wall from a filling position to a stacking position, and vice versa.

[0010] In a preferred embodiment, the at least one locking element comprises at least one recess. Typically, the recess retains the locking element when engaged with the container wall.

[0011] Preferably, the at least one locking element comprises a protrusion for engaging with the container. Preferably, the protrusion is substantially rounded in shape. The substantially rounded shape of the protrusion assists in the fitting of the locking element to the container wall.

[0012] In a preferred embodiment, the protrusion is substantially oval in shape. The substantially oval shape of the protrusion provides specificity for fitting the protrusion to the container, preventing the locking element from being removed from the container when the stacking member is in the filling or stacking position or any position in between the filling or stacking position.

[0013] Preferably, at least one of the second pair of opposed walls comprises at least one receiving aperture for receiving the at least one locking element. More preferably, the receiving aperture is provided to receive the protrusion of the at least one locking element. Preferably, the receiving aperture forms a slot or channel in which the protrusion of the locking element may slide after insertion of the locking element within the receiving aperture

[0014] In one embodiment, the stacking member is in an unlocked position when the locking element is received within the receiving aperture. In another embodiment, the stacking member is in a locked position when the locking element is rotated within the receiving aperture such that it cannot be removed therefrom. In the unlocked position, the locking element may be inserted or removed into or from the receiving aperture. This allows the stacking member to be inserted into the receiving aperture during fitting to the container wall, and removed from the receiving aperture for repair. In the locked position, the locking element is secured such that it cannot be removed from the receiving aperture. This allows the stacking member to be secured to the container wall during the stacking or filling of the container.

[0015] Typically, the longest dimension of the protrusion is substantially parallel to the longest dimension of the receiving aperture when the stacking member is in the unlocked position. In another embodiment, the longest dimension of the protrusion is rotated to a position wherein it is not substantially parallel to the longest dimension of the receiving aperture when the stacking member is in the locked position. Preferably, the longest dimension of the protrusion is substantially perpendicular to the longest dimension of the receiving aperture when the stacking member is in the locked position. Thus, the protrusion may be aligned with the longest dimension of the receiving aperture during insertion or removal of the stacking member from the receiving aperture, and may not be removed from the receiving aperture when the stacking member is in the stacking or filling position.

[0016] Preferably, at least one rib is provided within the at least one receiving aperture. Advantageously, the rib strengthens, reinforces and provides rigidity to the receiving aperture. Preferably, the at least one rib is partially flexible, thus assisting in the fitting of the locking element to the receiving aperture. Additionally, the rib is of sufficient rigidity to provide partial resistance during insertion of the locking element, such that an improved fit is provided between the locking element and the receiving aperture. Preferably, the rib and receiving aperture are manufactured in combination. Advantageously, the manufacture of the rib and receiving aperture in combination facilitates the production thereof. In one embodiment, the rib and receiving aperture are manufactured separately and subsequently combined.

[0017] In a preferred embodiment, the rib engages with the at least one recess of the locking element. Typically, the locking element is inserted into the receiving aperture via the protrusion and engages with the rib via the recess. Thus, the rib retains the locking element within the receiving aperture via the recess, strengthening the engagement of the locking element with the receiving aperture of the container wall.

[0018] In a preferred embodiment, the at least one stacking member is flexible to allow for fitting of the stacking member to the wall of the container. Advantageously, the flexibility of the stacking member assists in the fitting of the stacking member to the wall of the container.

[0019] In a second aspect, which comprises the present invention it is provided a collapsible container comprising a base, a first pair of opposed walls and a second pair of opposed walls,

wherein the container further comprises means for securing the walls in the erected position, wherein the means for securing may be rotated into a locked position or a detachable position.

[0020] Preferably, the means for securing the walls in the erected position comprises resilient means. The resilient means assist in securing the walls of the container in the erected position. In addition, the provision of resilient means has the advantage that the walls of the container may be detachable. The means for securing may also comprise a snap fit securing means.

[0021] The means for securing comprises at least one protrusion provided on at least one of the second pair of opposed walls, and at least one corresponding receiving element provided on an adjacent wall.

[0022] The shape of the at least one protrusion is designed such that it engages with the at least one receiving element. Preferably, the at least one protrusion has a tooth-like shape. Thus, the shape of the protrusion and the receiving element provides a specificity of interaction, such that the protrusion forms a tight fit with the receiving element.

[0023] The at least one receiving element comprises at least two ribs which partially surround the protrusion on engagement therewith. The provision of at least two ribs that partially surround the protrusion provides support for the protrusion, such that the protrusion is held securely within the receiving element.

[0024] In one embodiment, the protrusion is in a detachable position wherein it can be easily inserted into or removed from the receiving element. In a second embodiment, the protrusion is rotated within the receiving element to adopt a locked position. In the locked position, the protrusion cannot be easily removed from the receiving element. When the protrusion is in the locked position, the adjacent walls of the container are secured to one another, preventing the unwanted or accidental detachment thereof. In order to remove the protrusion from the receiving element, an operator must specifically rotate the protrusion such that it adopts the detachable position. It is only in this position that the walls of the container may be folded. In a preferred embodiment, biasing means may be provided for biasing the protrusion in the locked position, thus providing a locking engagement between one of the walls of the first pair of opposed walls in an upstanding position and both the walls of the second pair of walls when the walls of the second pair of walls are also in an upstanding position; and at least one actuator may be provided, which actuator is operable against the biasing means to move the protrusion into the detachable position wherein the protrusion may be released from the receiving element so as to disengage the wall of the first pair of opposed walls and both the walls of the second pair of walls. Preferably, the biasing means may comprise a spring. More preferably, the biasing means may comprise an integral spring.

[0025] In one embodiment, the container of the second aspect further comprises at least one stacking member in accordance with the first aspect of the invention, such that when the stacking member is in the stacking position, another container may be stacked thereon.

[0026] The present invention will now be described in more detail, by way of example only, and with reference to the Figures, in which:

Figure 1 is a perspective view of a collapsible container according to a first aspect

Figure 2 is an overhead view of the collapsible container, showing the stacking member in the stacking position;

Figure 3 is a perspective view of the collapsible container, showing a stacking member in the filling position;

Figure 4 is a perspective view of the collapsible container, showing the position of two of the walls as one of the walls starts to collapse;

Figure 5 is a front view of a portion of a stacking member suitable for use with the container of Figure 1;

Figure 6 is a perspective view of a portion of a stacking member suitable for use with the container of Figure 1;

Figure 7 is a rear view of a portion of a stacking member comprising a locking element suitable for use with the container of Figure 1;

Figure 8 is a front view of a portion of a stacking member comprising a locking element suitable for use with the container of Figure 1;

Figure 9 is a perspective view of a portion of a wall of the container, showing a receiving aperture provided therein;

Figure 10 is a perspective view of a portion of a wall of the container, showing a receiving aperture and a rib provided therein;

Figure 11 is a perspective view of a stacking member and a wall of the container, comprising a receiving aperture and a rib;

Figure 12 is a cross section view of a portion of a wall of the container, showing a receiving aperture and a rib;

Figure 13 is a cross section view of a portion of a wall of the container and a stacking member, wherein the stacking member is in the stacking position;

Figure 14a is an end view of a receiving aperture of a wall of the container, and a protrusion of a locking element of a stacking member, wherein the stacking member is in the unlocked position;

Figure 14b is an end view of a receiving aperture of a wall of the container and a protrusion of a locking element of a stacking member, wherein the stacking member is in the locked position.

Figure 15 is a side view of a stacking member and a receiving aperture provided within the wall of the container, wherein the stacking member is in the unlocked position;

Figure 16 is a rear view of a portion of a wall of the container and a stacking member;

Figure 17 is a front view of a wall of the container and a stacking member in the unlocked position;

Figure 18 is a perspective view of a portion of a wall of the container in accordance with the second aspect according to the invention, comprising a receiving element;

Figure 19 is a perspective view of a protrusion provided on an adjacent wall of the container of Figure 18 (wherein the adjacent wall of the container has been removed);

Figure 20a is a plan view of the means for securing in accordance with the second aspect of the invention, wherein the means for securing is in a detachable position;

Figure 20b is a plan view of the means for securing in accordance with the second aspect of the invention, wherein the means for securing is in a locked position;

Figure 21 is a perspective view of a portion of a wall of the container of Figure 18, showing the engagement of a receiving element provided on a first wall with a protrusion provided on an adjacent wall (wherein the adjacent wall has been removed).

A first aspect, which does not form part of the present invention relates to a collapsible container 10 comprising a base 12, a first pair of opposed walls 14 and a second pair of opposed walls 16, the first pair of opposed walls 14 and the second pair of opposed walls 16 defining an opening in the top of the container, wherein the container 10 further comprises at least one stacking member 18 which, when the container 10 is erect, is movable between a stacking position in which the stacking member 18 is positioned to support the base of another container thereon and a filling position in which the stacking member 18 is substantially removed from the opening in the top of the container 10, and wherein the container 10 further comprises at least one locking element 20 for securing the at least one stacking member 18 to the container 10. The provision of the at least one locking element 20 is advantageous as it prevents the unwanted detachment of the at least one stacking member 18 from the container 10 during operation, for example, during handling, folding or washing of the container.

[0027] Figure 1 illustrates a collapsible container 10. The container 10 comprises a base 12, a first pair of opposed walls 14 and a second pair of opposed walls 16. The first and second pair of opposed walls 14, 16 are pivotally attached, by hinges (not shown), at their lower edges to the base.

[0028] Container 10 is typically formed by injection moulding from a suitable plastics material, with a pattern of openings in the base 12 and walls 14, 16 to minimise the weight of an unfilled container 10. A handle opening is provided in a central, upper area of each of the walls of the first pair of opposed walls 14, for use in carrying the container 10. As the skilled person will appreciate, the shape, configuration and dimensions of the container 10, including the relative

proportions and thicknesses of the base 12 and walls 14, 16 are chosen according to the design requirements. The base 12, walls 14, 16 and other parts of the container 10 are typically moulded as separate parts and assembled together by snap-fit connection or otherwise. Stacking members 18 are located at either end of the container, wherein the rod 18a is substantially parallel and the legs 18b are substantially perpendicular to the first pair of opposed walls 14. Each stacking member 18 comprises a rod 18a, which may be approximately the same length as the walls of the first pair of opposed walls 14 and extends horizontally across the container when the stacking member 18 is in the stacking position, and two legs 18b, which extend downwards from either end of the rod 18a when the stacking member is in the filling position. Each stacking member 18 pivots about one of the walls of the first pair of opposed walls 14.

[0029] The container 10 is designed such that the stacking members 18 can adopt the stacking position (in which the stacking members 18 rotate forwards such that they are positioned over the opening in the top of the container 10, as shown in Figure 2), the filling position (in which the stacking members are aligned within the wall 14, as shown in Figure 3), and intermediate positions (between the filling position and the stacking position). When the stacking members 18 are in the filling position, the rods 18a are positioned adjacent to the walls of the first pair of walls 14. The rods 18a may be slightly shorter in length than the longest dimension of the walls 14, such that they may be moved within the container and rotated from the filling position to the stacking position, and vice versa. The rods 18a fit within the side wall of the container 14. Figures 5 and 6 illustrate a stacking member

[0030] With reference to Figures 7 and 8, a locking element 20 is provided at an end of the leg 18b of the stacking member 18, at a position distal to the point of connection of the leg 18b to the rod 18a. It would be understood that the locking element 20 may be provided at an end of one or both legs 18b of the stacking member 18. The locking element 20 extends substantially perpendicular to the leg 18b of the stacking member 18 and comprises a protrusion 22. The locking element also comprises a recess 24. The protrusion 22 is positioned substantially adjacent to the recess 24, such that the locking element 20 has a hook-like conformation. The conformation of the locking element 20 assists in securing the stacking member 18 to the container 10, thus preventing accidental or unwanted disconnection of the stacking member 18 from the container 10 during handling, for example when goods are loaded into the container, or when the walls of the container are manipulated by an operator.

[0031] The wall 14 of the container 10 comprises a receiving aperture 26, as can be seen in Figures 9 and 10. The receiving aperture 26 is provided at a lateral edge of the wall 14 and is substantially parallel to the lateral edge of the wall 14. The receiving aperture 26 forms an elongate slot or channel. Typically, the protrusion 22 of the locking element 20 is substantially rounded in shape to assist in fitting the locking element 20 to the wall 14 of the container 10. The protrusion 22 is inserted into the receiving aperture 26 and may slide therein. Figure 11 shows the engagement of the locking element 20 with the receiving aperture 26. Figures 12 and 13 show a cross-section view of the receiving aperture 26. In Figure 13, the stacking member 18 is shown to be in the stacking position (i.e. locked).

[0032] Typically, a rib 28 is provided within the receiving aperture 26. The provision of the rib 28 strengthens, reinforces and provides rigidity to the receiving aperture 26. In addition, the rib 28 is partially flexible, thus assisting in the fitting of the protrusion 22 to the receiving aperture 26. Furthermore, the rib 28 is also of sufficient rigidity to strengthen the receiving aperture 26 and retain the locking element 20 therein.

[0033] Preferably, the rib 28 and receiving aperture 26 are manufactured in combination with one another, i.e. as a single unit. The manufacture of the rib 28 and receiving aperture 26 in combination advantageously facilitates the production thereof. In one embodiment, the rib 28 and receiving aperture 26 are manufactured separately and subsequently combined.

[0034] When the locking element 20 is inserted into the receiving aperture 26, the rib 28 engages with the recess 24 of the locking element 20. Thus, the locking element 20 is retained within the receiving aperture 26 via the engagement of the rib 28 with the recess 24.

[0035] Preferably, the protrusion 22 of the locking element 20 is substantially oval in shape. Upon insertion or removal of the locking element 20 from the receiving aperture 26 (i.e. when the stacking member is in the unlocked position), the longest dimension of the protrusion 22 must be substantially parallel to the longest dimension of the receiving aperture 26. When the stacking member 18 is moved to adopt the stacking or filling position, or any position in between the stacking position and the filling position, (i.e. when the stacking member is in the locked position), the stacking member 18 is rotated such that the protrusion 22 is no longer substantially parallel and is preferably substantially perpendicular to the receiving aperture 26. Thus, the locking element 20 is secured in place and may not be removed from the receiving aperture 26 when the stacking member 18 is in the stacking or filling conformation. This has the effect of preventing or reducing accidental or unwanted removal of the locking element 20 from the receiving aperture 26, and thus the stacking member 18 from the container 10.

[0036] The configuration of the protrusion 22 during insertion or removal of the locking element from the receiving aperture of the wall (i.e. when the stacking member is in the unlocked position) is illustrated in Figure 14a, showing that the longest dimension of the protrusion 22 is parallel with the longest dimension of the receiving aperture 26. The configuration of the protrusion 22 when the stacking member 18 is in the stacking or filling position (i.e. in the locked position) is shown in Figure 14b. In this conformation, the protrusion 22 has been rotated such that the longest dimension thereof is no longer parallel to the longest dimension of the receiving aperture 26. Indeed, the longest dimension of the protrusion 22 is preferably substantially perpendicular to the longest dimension of the receiving aperture 26. Thus, in this position, the protrusion 22 is secured within the receiving aperture 26 and may not be removed therefrom.

[0037] Figures 15 to 17 show the engagement of the stacking member 18 with the receiving aperture 26. In Figures 15 and 17, the stacking member is in the unlocked position. As discussed above, the stacking member 18 is inserted into the receiving aperture 26 via the

protrusion 22 of the locking element 26 and is retained therein via the rib 28.

[0038] Preferably, the at least one stacking member 18 is flexible, to assist in fitting the stacking member 18 to the wall 14 of the container 10.

[0039] In addition, the container 10 may be partially flexible, thus assisting in the alignment of the locking element 20 of the stacking member 18 with the receiving aperture 26 of the wall 14. After the components have been aligned, an operator may apply pressure to the stacking member 18 in order to fit the stacking member 18 to the wall 14 of the container 10.

[0040] In a second aspect, the present invention provides a collapsible container 10 comprising a base 12, a first pair of opposed walls 14 and a second pair of opposed walls 16, wherein the container further comprises means for securing 30, 32 the walls 14, 16 in the erected position, wherein the means for securing 30, 32 may be rotated into a locked position or a detachable position.

[0041] With reference to Figures 18 and 19, means for securing 30, 32 are provided upon adjacent walls of the container in accordance with the second aspect of the invention. The means for securing comprise a receiving element 30, wherein the receiving element 30 comprises two ribs (30a, 30b), and a protrusion 32. The receiving element 30 is provided on a first pair of opposed walls 14 and the protrusion 32 is provided on a second pair of opposed walls 16. The protrusion 32 has a tooth-like shape, such that it fits between the two ribs 30a, 30b of the receiving element 30. Thus, on engagement of the protrusion 32 with the receiving element 30, a tight fit is formed between the protrusion 32 and ribs 30a, 30b, such that the protrusion 32 is held securely in place.

[0042] In the detachable position, the protrusion 32 may be easily inserted into or removed from the receiving element 30 (see Figure 20a). In this position, the protrusion 32 is supported by one of the ribs 30b of the receiving element 30. The protrusion is subsequently rotated within the receiving element 30 to adopt a locked position (Figure 20b). In the locked position, the protrusion 32 is in a conformation wherein it cannot be easily removed from the receiving element 30. In this position, both ends of the protrusion are located between the ribs 30a, 30b of the receiving element 30. Thus, the adjacent walls of the container are secured to one another, preventing the unwanted or accidental detachment thereof. In order to remove the protrusion 32 from the receiving element 30, an operator must specifically rotate the protrusion relative to the receiving element such that it adopts the detachable position. It is only in this position that the walls of the container may be folded.

[0043] In a preferred embodiment, biasing means may be provided for biasing the protrusion 32 in the locked position, thus providing a locking engagement between one of the walls of the first pair of opposed walls 14 in an upstanding position and both the walls of the second pair of walls 16 when the walls of the second pair of walls 16 are also in an upstanding position; and at least one actuator may be provided, which actuator is operable against the biasing means to move the protrusion 32 into the detachable position wherein the protrusion 32 may be released

from the receiving element 30 so as to disengage the wall of the first pair of opposed walls 14 and both the walls of the second pair of walls 16. Preferably, the biasing means may comprise a spring (not shown). More preferably, the biasing means may comprise an integral spring. In one embodiment, the biasing means may be provided on a wall of the container. In another embodiment, the biasing means may be provided on the protrusion 32.

[0044] Typically, the ribs 30a, 30b of the receiving element 30 partially surround the protrusion 32 and provide support for the protrusion 32 on engagement with the receiving element 30. As a result, the accidental or unwanted disconnection of the protrusion 32 from the receiving element 30 is prevented, such that the adjacent walls of the container are held in an erect position. The engagement of the protrusion 32 with the receiving element 30 is shown in Figure 21.

[0045] The container of the second aspect may further comprise at least one stacking member 18 in accordance with the first aspect of the invention.

[0046] In use, a stacking member 18 is attached to a wall 14 of the container 10 in accordance with the first or second aspect of the present invention by manipulating and moving the legs 18b of the stacking member 18 into a position wherein the legs 18b may be fitted to and engage with the container wall 14. This is achieved via the engagement of a locking element 20 with a receiving aperture 26 provided within the container wall 14. After fitting, the stacking member 18 may be rotated to adopt a filling position, wherein the rod 18a of the stacking member sits adjacent to the wall of the container 14. In this position, the container 10 may be loaded with goods. The stacking member 18 may subsequently be rotated to adopt a stacking position, wherein the stacking member is positioned above the opening of the container such that it may support the base of another container positioned thereon. The provision of a locking element in accordance with the first aspect of the invention prevents the accidental or unwanted detachment of the stacking member from the container wall, which detachment would not be desirable during handling, stacking, washing or loading of the container. In addition, the provision of a means for securing in accordance with the second aspect of the invention provides support to the walls of the container, such that adjacent walls do not become accidentally detached from one another during loading, transport, handling or washing of the container.

[0047] The skilled person would understand that the present invention relates to a container in accordance with the second aspect of the invention wherein the container may comprise both the locking element of the first aspect and the means for securing of the second aspect.

REFERENCES CITED IN THE DESCRIPTION

This list of references cited by the applicant is for the reader's convenience only. It does not form part of the European patent document. Even though great care has been taken in

compiling the references, errors or omissions cannot be excluded and the EPO disclaims all liability in this regard.

Patent documents cited in the description

- [GB2359066A \[0003\]](#)
- [GB2431917A \[0003\]](#)
- [AU8507858A1 \[0003\]](#)
- [WO03055753A1 \[0003\]](#)
- [GB2476856A \[0003\]](#)

P A T E N T K R A V

1. Sammenklappelig beholder (10), omfattende:

5 en bund (12),
et første par modsatliggende vægge (14) og
et andet par modsatliggende vægge (16),
hvor beholderen (10) endvidere omfatter organer (30, 32) til fastgørelse af
væggene i den rejste position,
10 hvor organerne (30, 32) til fastgørelse kan roteres til en låst position eller en
oplåselig position,
hvor organerne (30, 32) til fastgørelse omfatter mindst et fremspring (32), der
er tilvejebragt på mindst en af det andet par modsatliggende vægge (16), og
mindst et optageelement (30), der er tilvejebragt på en hosliggende væg, der
15 optager det mindst ene fremspring (32),
hvor det mindst ene optageelement (30) omfatter mindst to ribber (30a, 30b),
der delvis omgiver fremspringet (32), når de er i indgreb dermed;
kendetegnet ved, at
en af de mindst to ribber (30b) er indrettet til at støtte fremspringet (32) i den
20 oplåste position.

2. Sammenklappelig beholder (10) ifølge krav 1, hvor organerne (30, 32) til fastgørelse af væggene i den rejste position omfatter elastiske organer.

25 3. Sammenklappelig beholder (10) ifølge krav 1, hvor det mindst ene fremspring (22) har en tandlignende form.

4. Sammenklappelig beholder (10) ifølge krav 1 eller 3, hvor den anden af de mindst to ribber (30a) er bøjet mod den ene ribbe (30b), der er indrettet til at støtte
30 fremspringet (32).

DRAWINGS

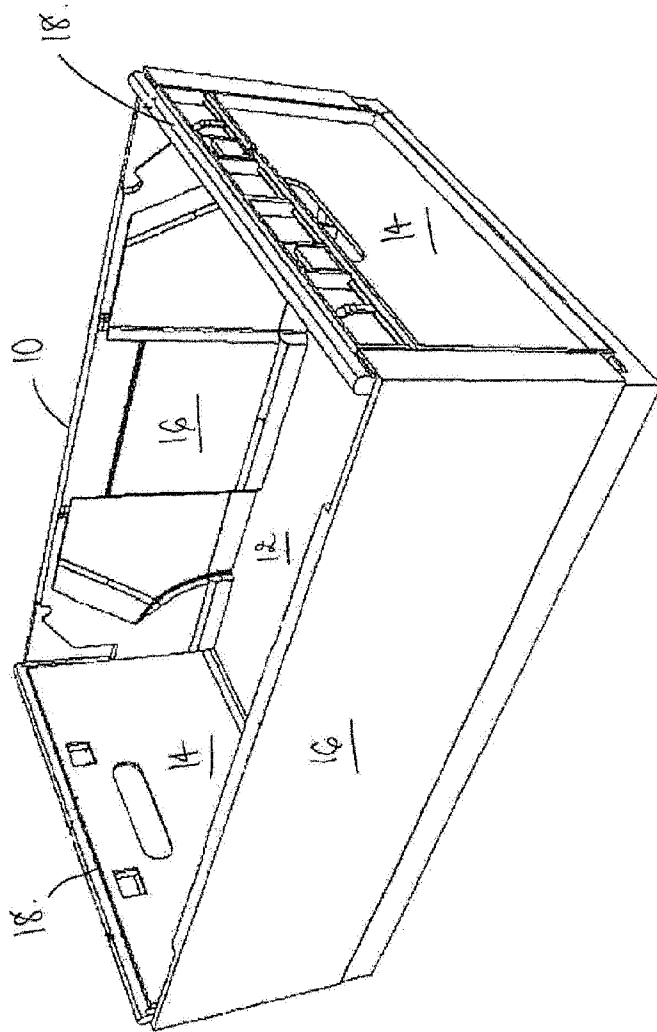


Figure 1

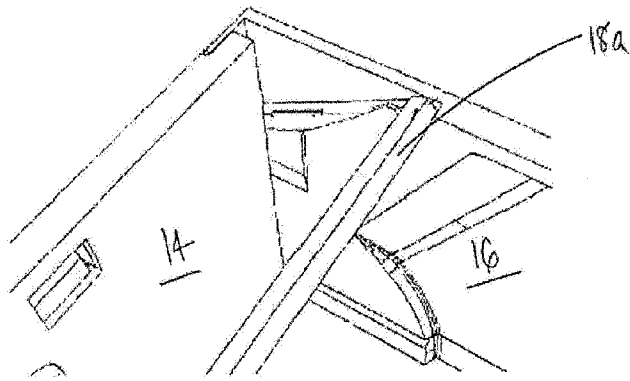


Figure 2

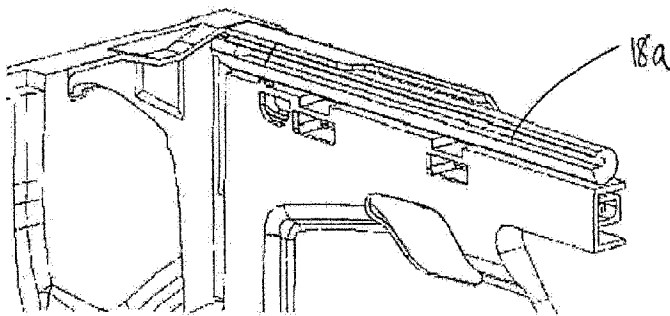


Figure 3

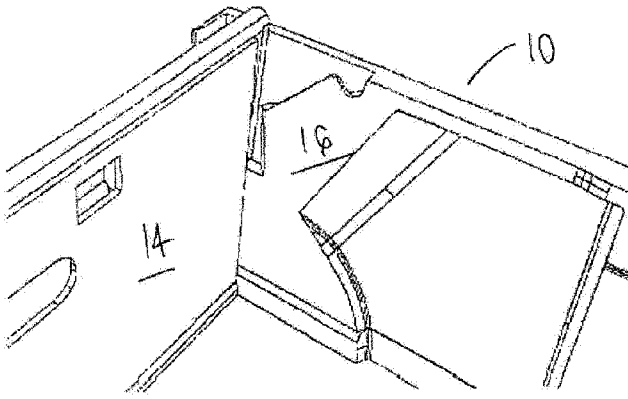


Figure 4

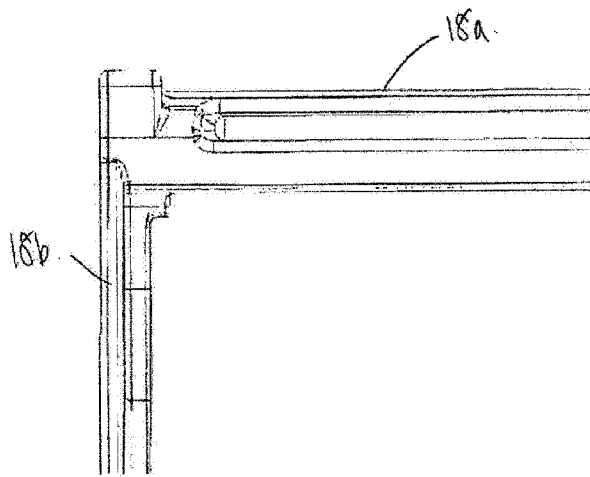


Figure 5

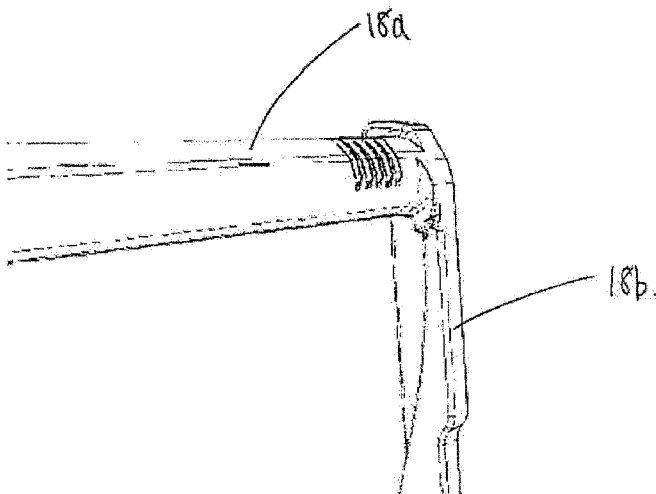


Figure 6

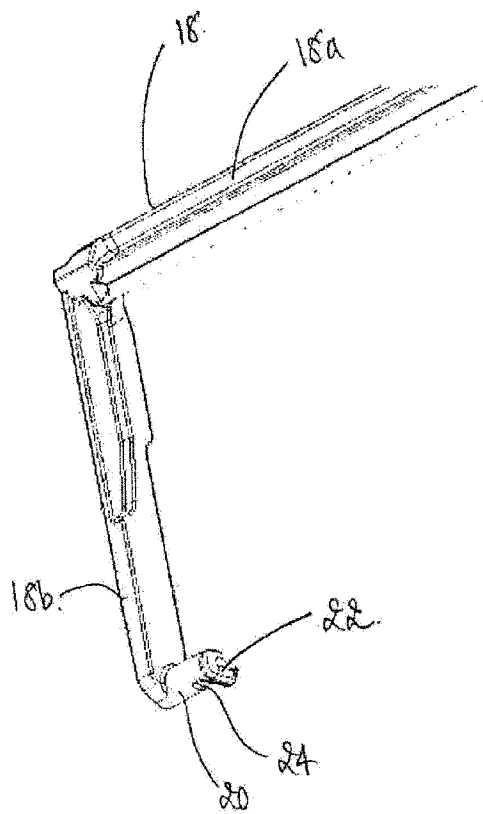


Figure 7

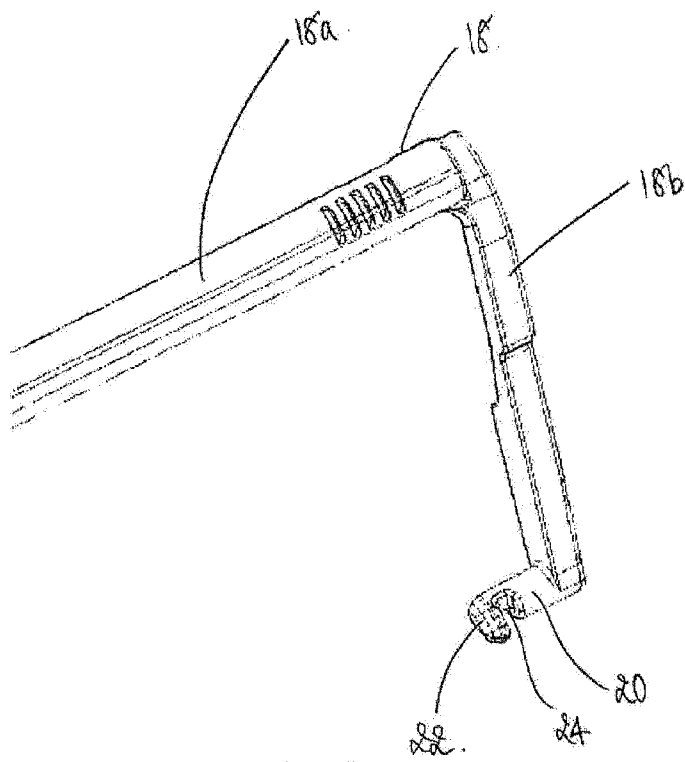


Figure 8

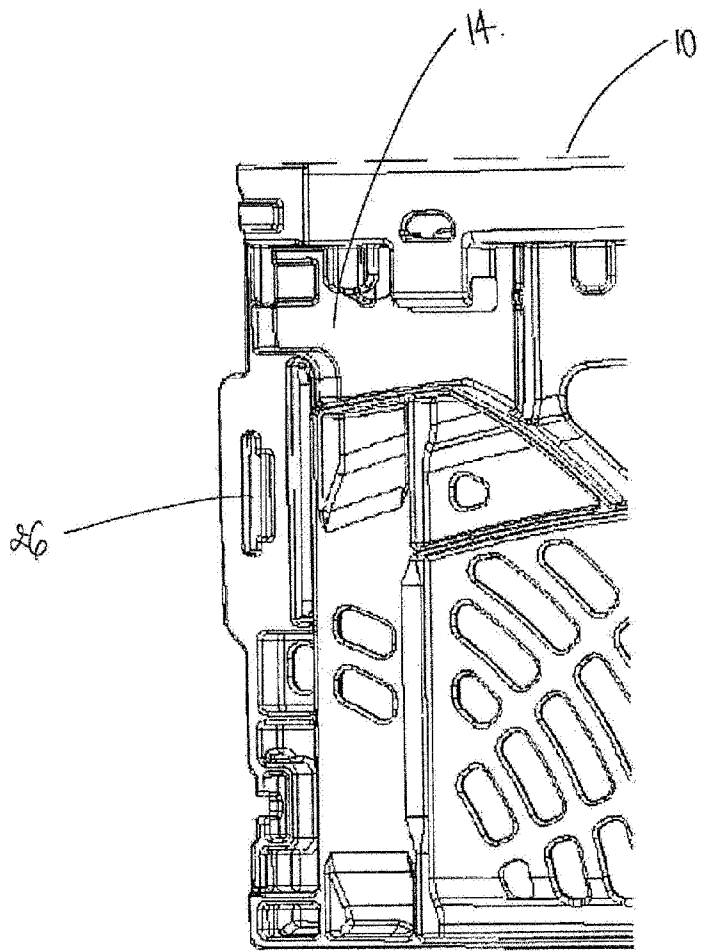


Figure 9

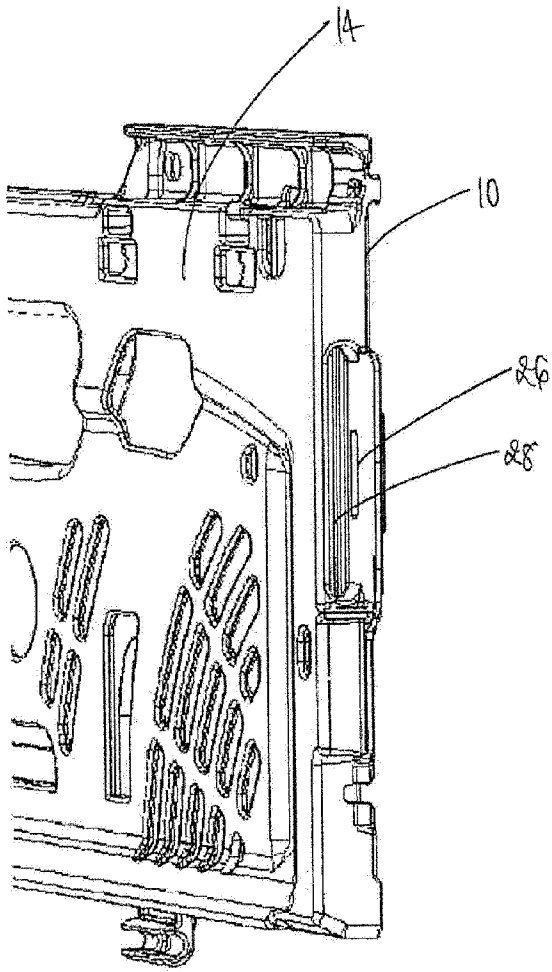


Figure 10

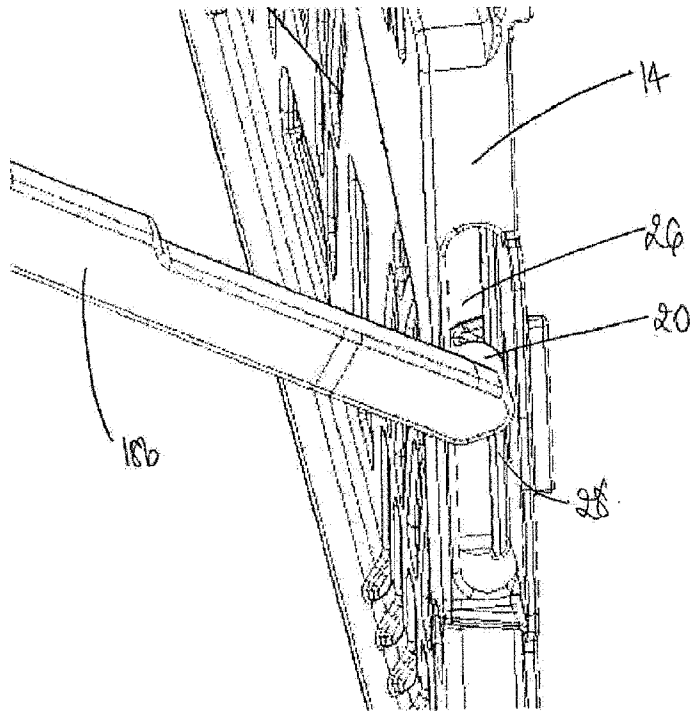


Figure 11

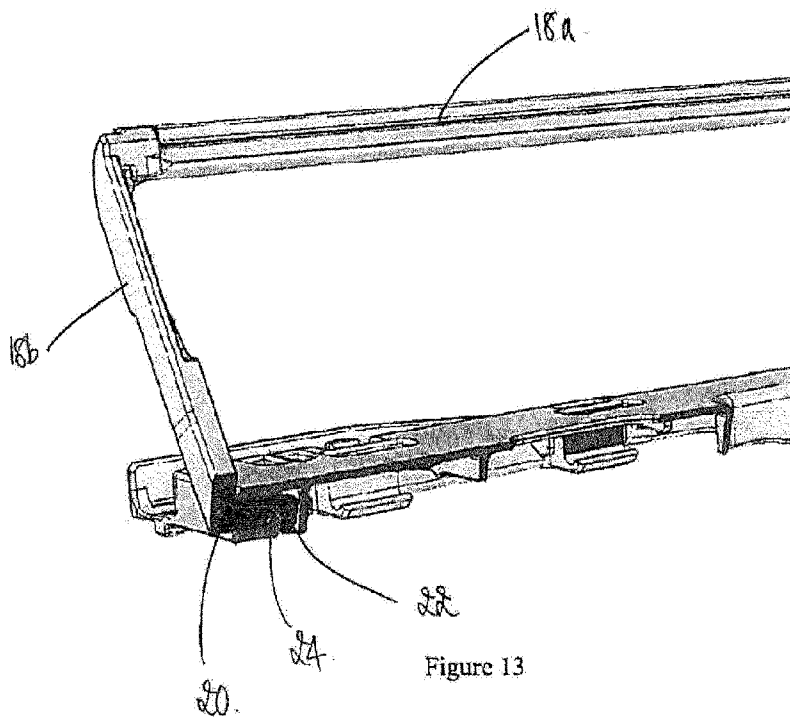
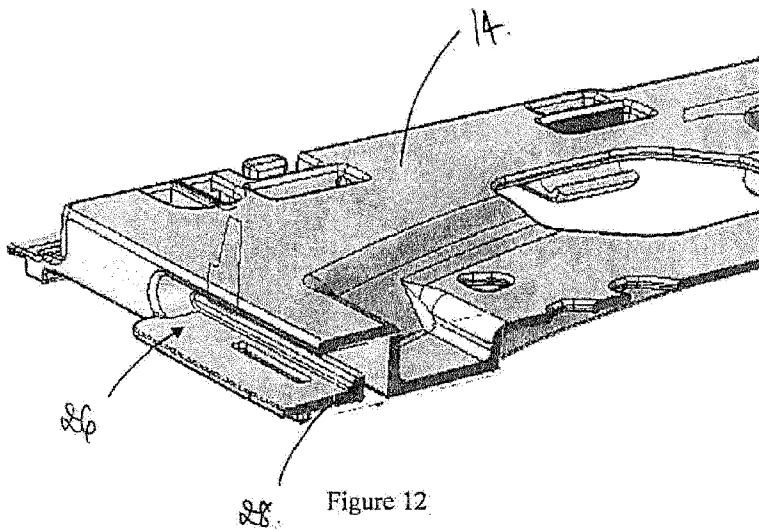
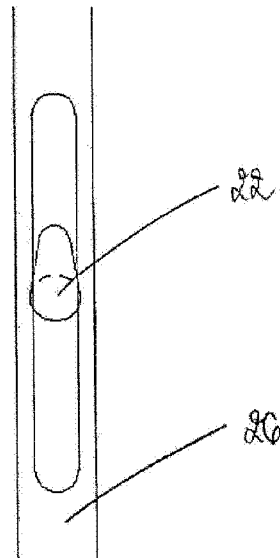
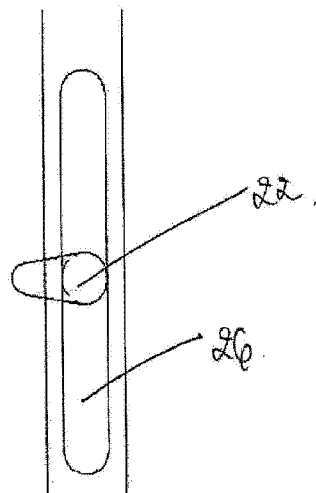


Figure 14

(a)



(b)



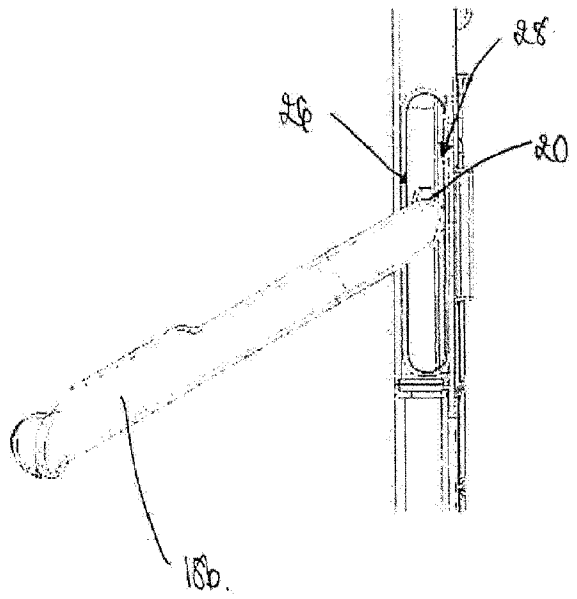


Figure 15

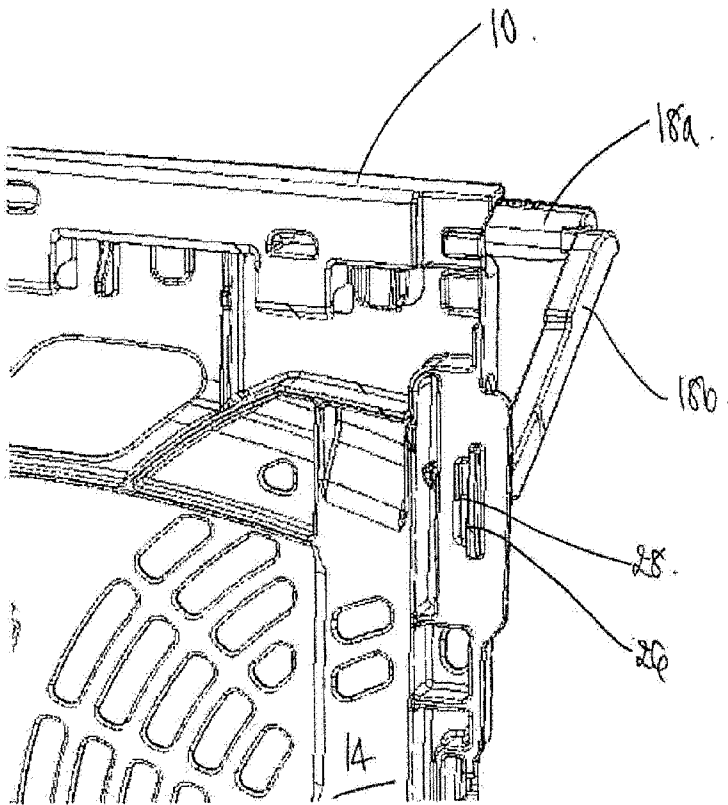


Figure 16

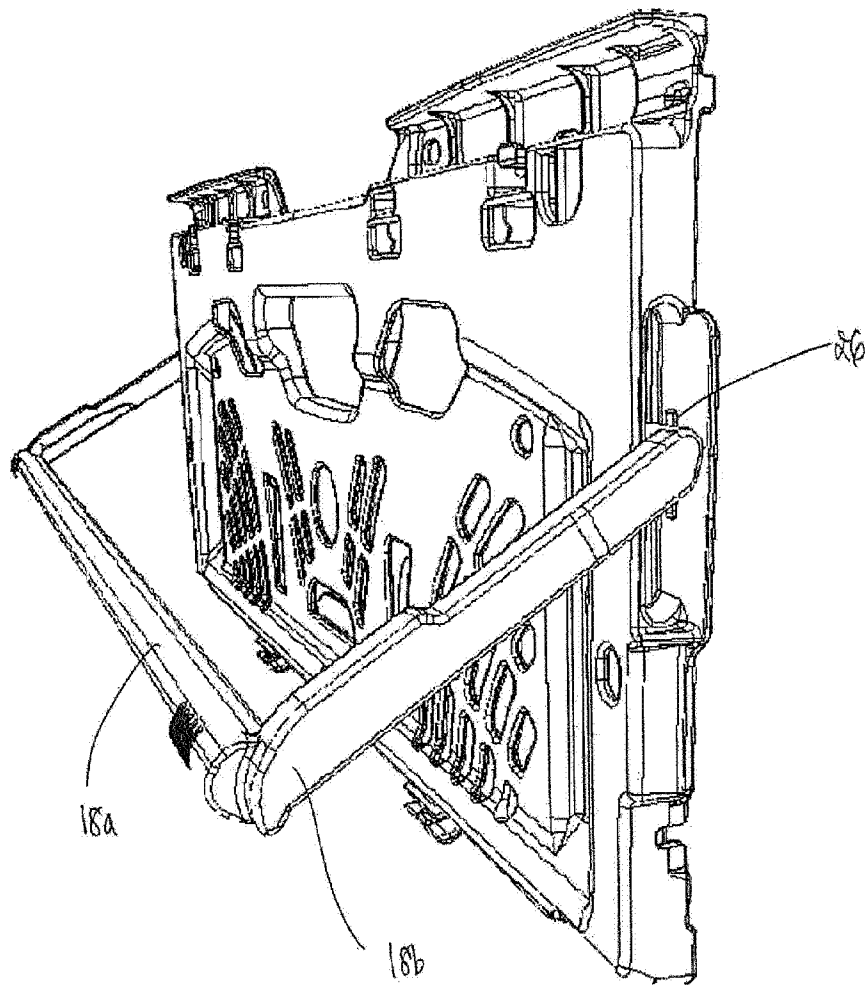


Figure 17

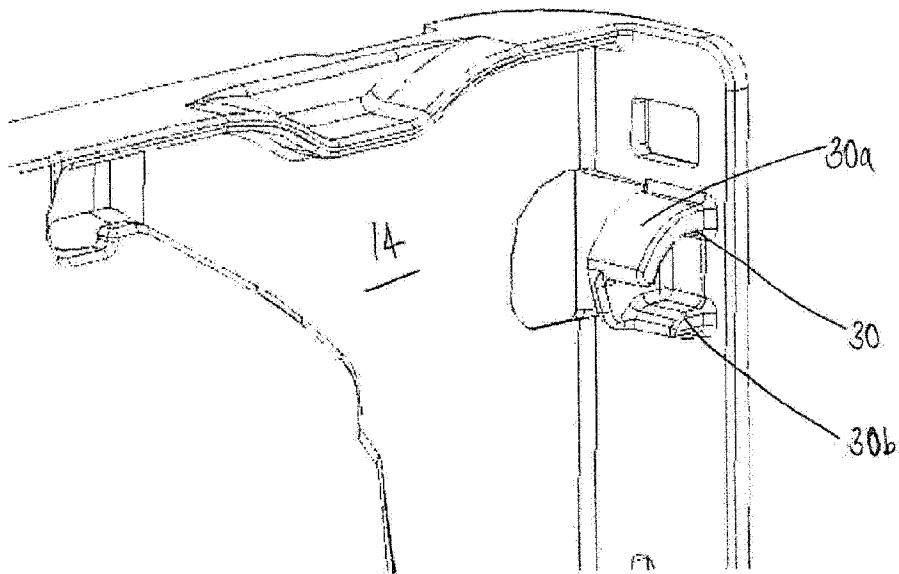


Figure 18

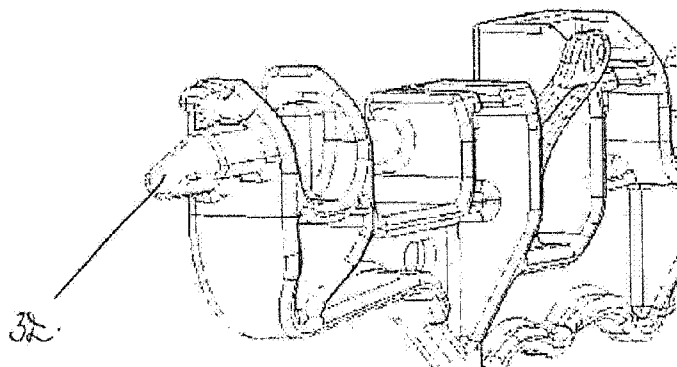
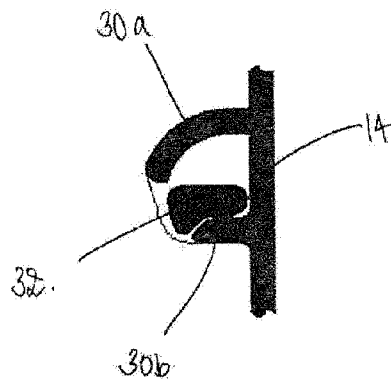


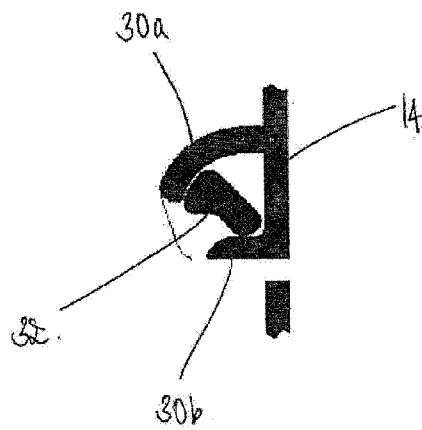
Figure 19

Figure 20

(a)



(b)



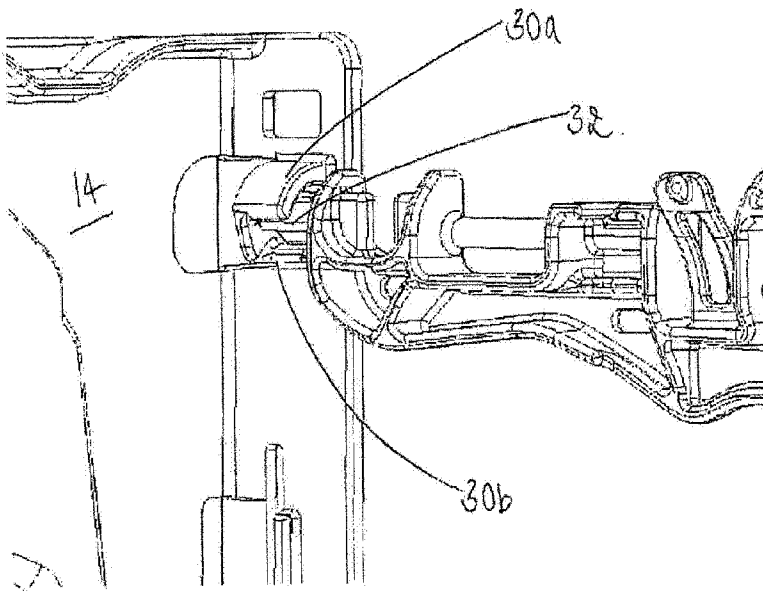


Figure 21