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(54) MATTRESS COVER

(57) Disclosed is a mattress cover comprising
- a first cover element (4) with a bottom sheet and a sidewall (6) arranged circumferentially around and attached to the bottom sheet, the first cover element (4) defining with its bottom sheet and its sidewall (6) a mattress core receptable (7), said sidewall (6) comprising at least two sidewall portions (11),
- a second cover element (5) with a top sheet (16) and two sidewalls (17, 17.1) arranged at opposite sides of the top sheet (16), said two sidewalls (17, 17.1) extending on the outside of the sidewall (6) of the first cover element (4) and overlapping with it at least partially and
- fastening means (12, 12.1) to secure each of the two sidewalls (17, 17.1) of the second cover element (5) to the adjacent sidewall portion (11) of the first cover element (4), which fastening means (12, 12.1) comprise at least one aperture (18, 18.1) in the opposing sidewalls (17, 17.1) of the second cover element (5), strap means (13) being associated with each sidewall portion (11) of the first cover element (4) each having a loose fastening end arranged to be introduced through an aperture (18, 18.1) of the adjacent sidewall (17, 17.1) of the second cover element (5), and a locking device (15) connected or connectable to each said fastening end locking the fastening end with its section reaching through the aperture (18, 18.1) and preventing the fastening end to slip back through the aperture (18, 18.1).

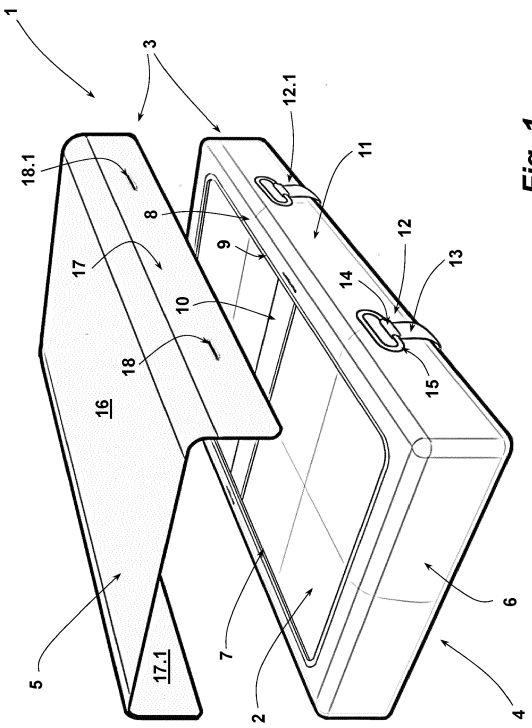

Fig. 1

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Description

[0001] The invention relates to a mattress cover.

[0002] Mattress cores are provided with mattress covers to be completed to a mattress. The mattress cover protects the mattress core, which could be a foam core, a spring core or a combination thereof. The mattress cover also improves the usability control and therefore the hygiene of the mattress. The mattress cover is manufactured from a textile material. Typically, such mattress covers have an outer textile layer and inner wadding layer. Still other mattress covers have a top textile layer and a bottom textile layer, between which textile layers a wadding layer is introduced. In such cases the both textile layers are fastened to each other by quilting seams.

[0003] A mattress cover encloses the mattress core. Usually, the mattress cover is openable in order to remove the mattress cover from the mattress core for cleaning and/or washing purposes. In order to close such mattress cover zippers are used. Such zipper is either arranged circumferentially around the sidewalls or extends over three sidewalls in order to facilitate the insertion of a mattress core and taking off the mattress cover from a mattress core. In view of the large number of end-of-life mattresses per year the mattress manufacturing industry is working on finding solutions in order to enhance the recycling capability not only of the mattress cores but also of the mattress covers. For this purpose the individual materials incorporated in the mattress cover need to be separated from each other prior to shredding them. This also implies to separate the zipper from the rest of the mattress cover, since the zipper is manufactured from a different type of material.

[0004] Since a mattress cover needs to be cleaned and/or washed from time to time it is necessary to separate the mattress cover from the mattress core it encloses. It would be helpful, if separating the mattress cover from the mattress core and enclosing a mattress core with the mattress cover would be facilitated.

[0005] It is thus object of the invention to provide a mattress cover which not only enables an improved handling to enclose a mattress core and to separate it from a mattress core, but which mattress cover also improves an easier recycling capability.

[0006] This object is solved by a mattress cover comprising

- a first cover element with a bottom sheet and a sidewall arranged circumferentially around and attached to the bottom sheet, the first cover element defining with its bottom sheet and its sidewall a mattress core receptable, said sidewall 6 comprising at least two sidewall portions,
- a second cover element with a top sheet and two sidewalls arranged at opposite sides of the top sheet, said two sidewalls extending on the outside of the sidewall of the first cover element and overlapping with it at least partially and
- fastening means to secure each of the two sidewalls of the second cover element to the adjacent sidewall portion of the first cover element, which fastening means comprise at least one aperture in the opposing sidewalls of the second cover element, strap means being associated with each sidewall portion of the first cover element each having a loose fastening end arranged to be introduced through an aperture of the adjacent sidewall of the second cover element, and a locking device connected or connectable to each said fastening end locking the fastening end with its section reaching through the aperture and preventing the fastening end to slip back through the aperture.

[0007] This mattress cover comprises two cover elements, a first cover element and a second cover element. The first cover element (bottom cover element) is designed to have a bottom sheet and a sidewall arranged circumferentially around the bottom sheet. The first cover element thus defines a mattress core receptable, into which a mattress core may easily be introduced. The second cover element (top cover element) is provided with a top sheet and at least two sidewalls arranged at opposite sides of the top sheet and attached to it. When placing the second cover element over the first cover element, wherein the mattress core is positioned, the two sidewalls of the second cover element are arranged to the outside of the sidewall of the first cover element and overlap with this sidewall at least partially. The overlap enables to secure the two cover elements with each other within the overlap. Typically, the overlap of the two sidewalls or sidewall portions respectively is over their complete height. Although this is a preferred embodiment, the overlap is only needed in such a manner, that securing of the two cover elements of this multi-part mattress cover as described below can be enabled. It is also possible, that the height of the two opposing sidewalls of the second cover element is smaller than the height of the complementary sidewall portions of the first cover element. Then the overlap could be along the total height of the sidewalls of the second cover element but only along a part of the height of the sidewall portions of the first cover element. Due to the overlap of the two cover elements with their sidewalls, fastening of the two cover elements to each other may be provided by other means than a zipper.

[0008] Although in a preferred embodiment the second cover element has two sidewalls extending along opposite sides of the top sheet, such second cover element may also comprise four sidewalls, whereas in such embodiment the four sidewalls are typically provided to be a sidewall extending circumferentially around and attached to the top sheet. It is also possible, that in case the top cover element is provided with four sidewalls, that these remain individually and are not connected at their transverse ends with each other. In order to secure the top cover with the bottom cover

element, the overlap between two opposing sidewalls of the top cover element is needed. These are typically those sidewalls, which follow the longitudinal extension of the top sheet. Nevertheless, depending on the specific embodiment to be worked, it is also possible to use the two transverse sidewalls of the top cover element for securing it with the respective side wall portions of the bottom cover element. In case the top cover element is provided with four sidewalls or a sidewall arranged circumferentially around the top sheet, then both cover elements can be secured with each other with all four overlapping sidewalls. Therefore, the number of sidewalls of the second cover element as cited in the claim is not limited to exactly two sidewalls.

[0009] The fastening means of this mattress cover to secure each of the two opposing sidewalls of the second cover element to an adjacent sidewall of the first cover element comprise at least one aperture in each of these sidewalls of the second cover element, typically two apertures arranged with a distance to each other in the longitudinal extension of the sidewall. These apertures may be regarded as female fastening means. Cooperating with these female fastening means are strap means as male fastening means being attached to the first cover element. These strap means have a loose fastening end, which is arranged to be introduced through an aperture of the adjacent sidewall of the second cover element. The strap means in the context of this disclosure are any means, which at least have a loose fastening end, being able to be introduced through an aperture of the second cover element. The strap means could comprise a strap fastened to the first cover element, which strap carries a loose fastening end. Such strap means could also be provided by for example stitching a ribbon or another flexible strap means to a sidewall portion of the first cover element and providing a fastening end in this manner to be introduced through an aperture of the second cover element. The loose fastening ends of the strap means are arranged in positions on the sidewall portion of the first cover element corresponding to the position of the apertures in the opposing sidewalls of the second cover element. The fastening means further comprise a locking device, with which a loose fastening end of the strap means penetrating through said aperture is locked and thus prevented from slipping back through the aperture. The locking device can either be connected to the fastening end of such strap means or be designed to be connectable to a fastening end. In an embodiment, in which the locking device is connectable to the fastening end, the locking device can be removed and separated from the strap means. Such a connectable locking device can thus be removed from the fastening end in order to remove the mattress cover or only the second cover element from the mattress core, for example for cleaning and/or washing purposes. Also due to the connectibility of the locking device to the fastening end this can be easily removed in order to separate materials, when the mattress cover is to be recycled, in case the locking device is manufactured from a different material than the rest of the cover element. Due to is easy removability the locking device can now be manufactured from a different material than the cover elements itself. Still further in such an embodiment the locking device can be designed in size and geometry to securely lock the two adjacent sidewalls of respectively the first and the second cover element with each other. According to one embodiment such locking device is designed as a handle. Thus, the handle serves two functionalities, one of which is the functionality to act as a locking device and whereas the other functionality is to provide handling means to handle a mattress which is provided by such mattress cover with a mattress core arranged therein. In such embodiment, the aperture only needs to have a width allowing the loose fastening end to be introduced through it.

[0010] According to another embodiment the locking device is connected to the strap means. Such locking device could be a button or a knob. In such case the opening width of the aperture will need to be designed big enough, so that the locking device can be pushed through it.

[0011] The two opposing sidewalls of the second cover element are typically arranged to be in the longitudinal direction of the mattress cover. Depending on the intended design the second cover element can also be provided with a circumferential sidewall.

[0012] The benefits of such multi-part mattress cover are numerous:

- By providing two cover elements, it is only necessary to remove the second cover element, which is the top cover element, for cleaning and washing purposes. To remove the second cover element the mattress core being enclosed in the mattress core receptable of the bottom cover element - the first cover element - does not need to be removed or handled otherwise. Therefore, removing the top cover is significantly facilitated.

- This concept also allows an individualization of the mattress cover. The first cover element can be uniform for numerous applications, whereas the second cover element as the top cover element can be chosen from a wide variety to meet individual requirements. Such top cover elements can differentiate in the material, their cushioning, the color, thus the overall design.

- The top cover elements can also be provided with integrated functionalities. This could be providing a top cover element in a hypo-allergenic quality. Also such top cover element can be provided with sensor materials or with integrated sensors in order to monitor a person using the mattress.

- The possibility to easily adapt the mattress cover to the very specific individual needs only by interchanging the top cover element is in particular of benefit in hospitals, elderly homes or other care facilities.

- The concept of this mattress cover providing two cover elements also allows that the top cover element is easily interchangeable. It is therefore no problem to exchange a top cover element designed for warmer climate like in the summer months of the year with another top cover element designed for a colder climate like in the winter months. So depending on the season the mattress comfort can be optimized.

- It is easy to disassemble all parts of such mattress cover into mono-material waste streams, because it is possible to provide such mattress cover manufactured from only one material. Of course, the top cover and the bottom cover may be of different materials. Then, due to the easy disassemblage of the two cover elements each of them can be brought into its own waste stream.

- It is not necessary to make use of zippers in order to close the mattress cover.

[0013] Preferably each cover element is provided by a mono-material in order to minimize waste streams. Such cover and its components could be for example made of polyester (PES), wool, flax for any other suitable material. Such mattress cover element could also have an inner wadding which could then also be provided from the same material, for example PES as example. In case only one waste stream shall be generated when recycling such mattress cover the individual parts of such cover element can be of different specific materials as long as these belong to one material family. The locking devices, typically being detachable from the fastening ends, can be of the same or of different material, since these are easily detachable.

[0014] Since the first cover element, being the bottom cover element, defines with its bottom sheet and its circumferentially arranged sidewall a mattress core receptable, it is also very easy to provide a mattress core which serves the individual needs. The mattress core does not need to be a one-piece mattress core. Due to the mattress core receptable of the first cover element two or more mattress core elements can be arranged within the mattress core receptable. This could be a number of individual mattress core elements, which at least in part have a different softness. In particular when providing a foam mattress core individual mattress core blocks can be arranged next to each other and/or on top of each other to meet the individual requirements in an easy manner.

[0015] The strap means of said fastening means can be provided by any flexible tensioning means like a ribbon or a belt typically being attached to the first cover element.

[0016] According to one embodiment the strap means each have a fastening end provided as a loop. The loop is used to introduce the locking device, which then extends with a locking section thereof through the loop. The locking section has a dimension, that when introduced through such loop it cannot be introduced into the aperture, through which the fastening end is directed.

[0017] According to another embodiment each strap means is provided by two fastening ends, both of which interact with a locking device arranged at the outside of the sidewall of the top cover element. In this embodiment the two fastening ends are arranged with a little distance from each other, whereas the distance typically is large enough, that a strap handle can be connected to both fastening ends and is long enough, that a hand of a human being can be inserted between the two fastening ends connected to the strap handle in order to grip the strap handle.

[0018] In an embodiment of the mattress cover, in which the top cover element may only have two sidewalls opposing each other, the bottom cover element is preferably designed with a sidewall extension. The sidewall extension extends over the height of a mattress to be inserted into its mattress core receptable. The sidewall extension typically has tightening means at its circumferential end. With these tightening means the sidewall extension is - after introducing a mattress core within its mattress core receptable - tightened, with which tightening the sidewall extension will extend over a rim section beginning with the upper edge of the mattress core towards its center. The tightening means can be a rope guided in a channel at the circumferential end of the sidewall extension. In an embodiment, easier to handle the tightening means are realized by an elastic rim. With such embodiment the two longitudinal sidewall extensions can be linked by fixed tension strap.

[0019] In the following, the invention will be described with reference to the embodiments disclosed in the figures. These show:

Fig. 1: a perspective view of a mattress with a mattress cover comprising two cover elements in an exploded view,

Fig. 2a, b: a perspective view of the mattress of figure 1 (figure 2a) and an enlarged detail of a handle as locking device (figure 2b),

Fig. 3: a perspective view of a mattress with a mattress cover comprising two cover elements in an exploded

view according to another embodiment,

Fig. 4a, b: a perspective view of the mattress of figure 3 (figure 4a) and an enlarged detail of a handle as locking device (figure 4b), and

Fig. 5: perspective view of a third embodiment of a mattress arrangement with a multi-part mattress cover.

[0020] Figure 1 depicts a mattress comprising a mattress core 2 and a multi-part mattress cover 3 according to the invention. In the embodiment depicted in figure 1 the mattress cover comprises two cover elements 4, 5. In the embodiment of figure 1 the first cover element 4 is the bottom element and the second cover element 5 is the top cover element.

[0021] The first cover element is made up of a bottom sheet with a sidewall 6 arranged circumferentially around the bottom sheet. The circumferential sidewall 6 provides together with the bottom sheet (not to be seen in the figures) a mattress core receptable 7 in which the mattress core 2 is arranged. In the depicted embodiment the bottom cover element 4 has a sidewall extension 8 arranged along its complete circumference. The sidewall extension 8 carries an elastic rim 9, by which the sidewall extension 8 is pulled over the outer rim section of the mattress core 2. The mattress core 2 is thus formfittingly hold within the mattress core receptable 7. In the depicted embodiment the two longitudinal sidewall extensions 8 are linked by a tensioning strap 10 to hold the sidewall extensions 8 overlapping the top surface of the mattress core 2 in their overlapping position, when the mattress 1 is used.

[0022] The bottom mattress element 4 carries on both of its longitudinal sidewall portions 11 two fastening means 12, 12.1, with which the top cover element 5 can be secured to the bottom cover element 4. The fastening means 12 of this embodiment comprise a strap 13 fixed to the lower cover element 4 with a seam. The strap 13 has a loose end, which is provided as a loop 14. In the loop 14 of strap 13 a handle 15 is held. Fastening means 12.1 are identical to the fastening means 12.

[0023] The top cover element 5 of the mattress cover 3 has a top sheet 16 and in the depicted embodiment two opposing sidewalls 17, 17.1 arranged and attached to the top sheet 16 at its longitudinal sides. The sidewalls 17, 17.1 can carry an edge piping along their longitudinal edges, facing downwards to the bottom cover element 4. The height of the sidewall 17, 17.1 of the depicted mattress cover embodiment is equivalent to the height of the sidewall 6 of the bottom cover element 4. The sidewalls 17, 17.1 overlap over the longitudinal sidewall portions 11 and over the complete height of the sidewall portions 11 as to be seen in figure 2a. The sidewall 17 has an aperture 18, 18.1 at complementary positions to the handles 15 of the fastening means 12, 12.1, which fastening means are also arranged on the side wall portion opposing side wall portion 11. The length and height of each aperture 18, 18.1 is of such size, that the loop 14 of each strap 13 of strap means 12, 12.1 can be brought through such aperture 18, 18.1 (see figure 2b). The size of the handles 15 with respect to their extension along their longitudinal axis is long enough, so that when a tensioning force is applied on strap 13 trying to retract loop 14 through such aperture 18, 18.1 the handle 15 blocks such movement by abutting on the outside of sidewall 17 or 17.1, respectively. Therefore, handle 15 being attached to loop 14 of strap 13 by its locking sections 19, 19.1 (see figure 2b) also resembles a locking device for securely fastening the top cover element 5 to the bottom cover element 4. The loose end of strap 13 carrying the loop 14 can be long enough, that the handle 15 may be turned and brought into a position, in which one of its end portions can be introduced into the loop 14. In case the width of the apertures 18, 18.1 have the size that the handle 15 can be pushed through an aperture 18, 18.1 with its smaller extension, then the handle 15 can be worked as a closed loop. In order to bring such handle through an aperture 18, 18.1 the handle will be turned against the loop 14, that this is arranged in one of its bends. In such embodiment the opening and closing position is dependent on the arrangement of the handle in respect of its longitudinal extension to the loop of the fastening end of the strap means. The arrangement of the handle to the loop 14 of strap 13, in which arrangement the loop 14 embraces the handle 15 in its securing position on one of the longitudinal shanks thereof.

[0024] The fastening means 12, 12.1, with which the top cover element 5 is secured to the bottom cover element 4, is easily operated in order to fasten or defasten both cover elements 4, 5 of this multi-part mattress cover 3. In case the handle 15 is open-looped, as depicted in the embodiment of the mattress cover 3 in figure 2b, then by sliding one of its locking sections 19 or 19.1 outside of loop 14 and then resliding the handle 15, this is easily removed from the loop.

[0025] Figures 3 and 4a, 4b show multi-part mattress cover 3.1 according to another embodiment of its fastening means 12.2. Concerning all other details the bottom cover element 4.1 and the top cover element 5.1 of the mattress cover 3.1 are identical to the cover elements 4, 5 of the embodiment of figures 1 - 2b. Thus, in the following description only the fastening means 12.2 are described. Also mattress cover 3.1 carries on its longitudinal side wall portions 11.1 two fastening means 12.2. Each fastening means 12.2 comprises two fastening ends 20, 20.1, which are attached with their ends to the side wall portion 11.1 of the bottom cover element 5. The fastening ends 20, 20.1 provide together with outside of the side wall portion 11.1 a loop, into which a strap handle 21 is introduced for securing the top cover element 5.1 with the lower cover element 4.1 after the fastening ends 20, 20.1 have been brought through an aperture 18.2, 18.3 of the side wall portion 11.1 as to be seen in figures 4a, 4b. Preferably, the locking sections 19.2, 19.3 of the strap handle 21 provide an undercut or groove, locking the strap handle 21 in its locking position and therefore hindering the fastening

ends 20, 20.1 to slip unintendedly from the strap handle 21. In the embodiment depicted the groove 22 is introduced into the top surface of the strap handle 21. The fastening ends 20, 20.1 slip into the groove 22 when sliding the strap handle 21 into each fastening end 20, 20.1.

[0026] The mattress core 2 of the depicted embodiment is provided by several mattress core elements arranged in a side-by-side arrangement to each other. The design of the bottom cover element 5 with its mattress core receptable 7 securely holds the mattress core elements in place, even if the top cover element 4, 4.1 is detached from the bottom cover element 5.

[0027] Such multi-part mattress cover 3, 3.1 allows to individually design the top cover element 4, 4.1 according to the individual needs of a user. The bottom cover element 4, 4.1 can remain the same.

[0028] From the description of the multi-part mattress covers 3, 3.1 it is evident, that handling the mattress cover 3, 3.1 and in particular its top cover element 5, 5.1 is easy and that in particular removing the top cover element 5, 5.1 from the bottom cover element 4, 4.1 does not necessarily need the handling of the mattress core and in particular its weight.

[0029] The multi-part mattress cover described can also be designed to be a uniform mattress cover for two (or more) mattresses as these are used in double-beds. Such an embodiment is depicted in figure 5. The multi-part mattress cover 3.2 comprises two bottom mattress covers 4.2 for example those as described in figures 1 - 2b and one top mattress cover 5.2 extending over the width of the two bottom cover elements 4.2. This top cover element 5.2 provides a uniform sleeping surface across both mattress cores, each mattress core being introduced in a bottom cover element 4.2.

[0030] Disclosed is also a mattress with a multi-part mattress cover as described above.

Reference List

[0031]

1	mattress
2	mattress core
3, 3.1, 3.2	mattress cover
4, 4.1, 4.2	cover element
5, 5.1, 5.2	cover element
6	sidewall
7	mattress core receptable
8	sidewall extension
9	elastic rim
10	tensioning strap
11, 11.1	side wall portion
12, 12.1, 12.2	fastening means
13	strap
14	loop
15	handle
16	top sheet
17, 17.1	sidewall
18, 18.1, 18.2, 18.3	aperture
19, 19.1, 19.2, 19.3	locking section
20, 20.1	fastening end
21	strap handle
22	groove

Claims

1. Mattress cover comprising

- a first cover element (4, 4.1, 4.2) with a bottom sheet and a sidewall (6) arranged circumferentially around and attached to the bottom sheet, the first cover element (4, 4.1, 4.2) defining with its bottom sheet and its sidewall (6) a mattress core receptable (7), said sidewall (6) comprising at least two sidewall portions (11, 11.1),
- a second cover element (5, 5.1, 5.2) with a top sheet (16) and two sidewalls (17, 17.1) arranged at opposite sides of the top sheet (16), said two sidewalls (17, 17.1) extending on the outside of the sidewall (6) of the first cover element (4, 4.1, 4.2) and overlapping with it at least partially and
- fastening means (12, 12.1, 12.2) to secure each of the two sidewalls (17, 17.1) of the second cover element

(5, 5.1, 5.2) to the adjacent sidewall portion (11, 11.1) of the first cover element (4, 4.1, 4.2), which fastening means (12, 12.1, 12.2) comprise at least one aperture (18, 18.1, 18.2, 18.3) in the opposing sidewalls (17, 17.1) of the second cover element (5, 5.1, 5.2), strap means (13) being associated with each sidewall portion (11, 11.1) of the first cover element (4, 4.1, 4.2) each having a loose fastening end (20, 20.1) arranged to be introduced through an aperture (18, 18.1, 18.2, 18.3) of the adjacent sidewall (17, 17.1) of the second cover element (5, 5.1, 5.2), and a locking device (15, 21) connected or connectable to each said fastening end (20, 20.1) locking the fastening end (20, 20.1) with its section reaching through the aperture (18, 18.1, 18.2, 18.3) and preventing the fastening end to slip back through the aperture (18, 18.1, 18.2, 18.3).

2. Mattress cover according to claim 1, **characterized in that** the overlap of the sidewall portions (11, 11.1) of the first cover element (4, 4.1, 4.2)with the sidewalls (17, 17.1) of the second cover element (5, 5.1, 5.2) extends over their complete height, which is defined by the height of a mattress core (2) being arranged within the mattress core receptable (7) of the first cover element (4, 4.1, 4.2).

3. Mattress cover according to claim 1 or 2, **characterized in that** each sidewall (17, 17.1) of the second cover element (5, 5.1, 5.2) has two apertures (18, 18.1, 18.2, 18.3) arranged with a distance from each other in the longitudinal extension of the sidewall (17, 17.1) and **in that** the first cover element (4, 4.1, 4.2) has two strap means (13) for each of its sidewall portions (11, 11.1) arranged and fastened to the first cover element (4, 4.1, 4.2) such that each fastening end (20, 20.1) is introducible through to a different aperture (18, 18.1, 18.2, 18.3) of the sidewall (17, 17.1) of the second cover element (5, 5.1, 5.2).

4. Mattress cover according to one of claims 1 to 3, **characterized in that** the fastening ends of the strap means (13) are provided with a loop (14), into which the locking device (15, 21) extends with a locking section (19, 19.1, 19.2, 19.3) for securing the sidewall portions (11, 11.1) with the sidewalls (17, 17.1).

5. Mattress cover according to claim 4, **characterized in that** the locking device is designed as an open-looped handle (15).

6. Mattress cover according to one of claims 1 to 3, **characterized in that** each strap means comprises two fastening ends (20, 20.1) attached to each sidewall portion (11.1) of the first cover element (4.1) to interact with a locking device (21) inserted into the two fastening ends (20, 20.1) of each strap means for securing the adjacent sidewalls with each other.

7. Mattress cover according to claim 6, **characterized in that** the locking device is a strap handle (21) with a locking section at each end, each end connectable to one of the fastening ends (20, 20.1) of a strap means.

8. Mattress cover according to one of claims 1 to 3, **characterized in that** the locking devices are connected to the fastening ends of the strap means.

9. Mattress cover according to claim 8, **characterized in that** the locking devices are buttons or knobs.

10. Mattress cover according to one of claims 1 to 9, **characterized in that** the sidewall (6) of the first cover element (4, 4.1, 4.2) has a sidewall extension (8) extending over a rim section of the top of a mattress core (2) arranged within the mattress core receptable (7), the sidewall extension (8) having tightening means at its circumferential rim.

11. Mattress cover according to claim 10, **characterized in that** the tightening means are an elastic rim (9).

12. Mattress cover according to one of claims 1 to 11, **characterized in that** the sidewalls (17, 17.1) of the second cover element (5, 5.1, 5.2) are sidewalls of the mattress cover extending along the longitudinal length of a mattress core (2).

13. Mattress cover according to claim 12, **characterized in that** the width of the second cover element (5.2) is configured to span over two first cover elements (4.2) when being in a side-by-side arrangement.

14. Mattress cover according to one of claims 1 to 13, **characterized in that** into the mattress core receptable (7) of the first cover element (4, 4.1, 4.2) a mattress core (2) is inserted.

15. Mattress cover according to claim 14, **characterized in that** the mattress core (2) is provided by at least two mattress

core elements each of the mattress core elements having a different characteristic as to their softness.

16. Mattress cover according to claim 15, **characterized in that** the mattress core elements are arranged next to each other and/or on top of each other.

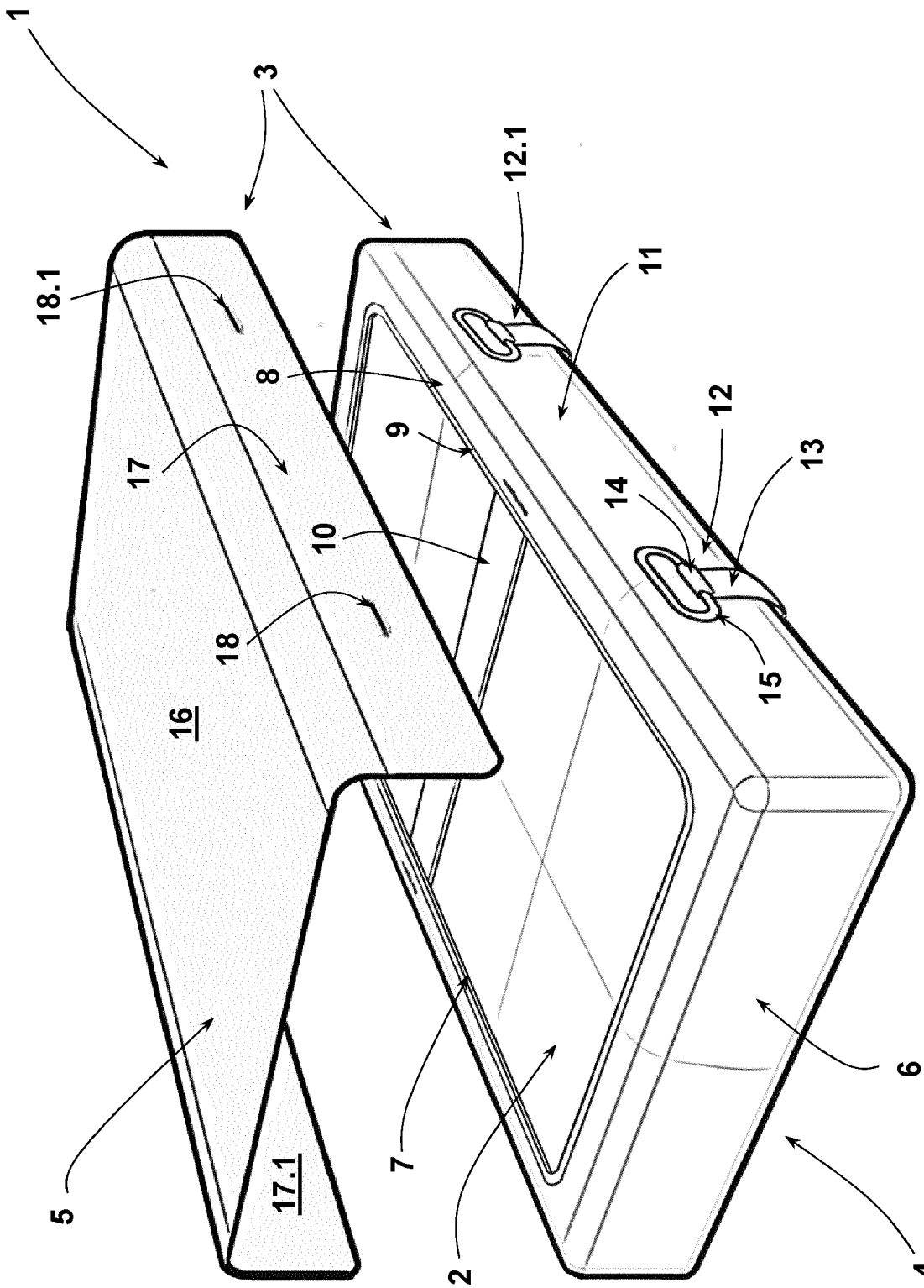

Fig. 1

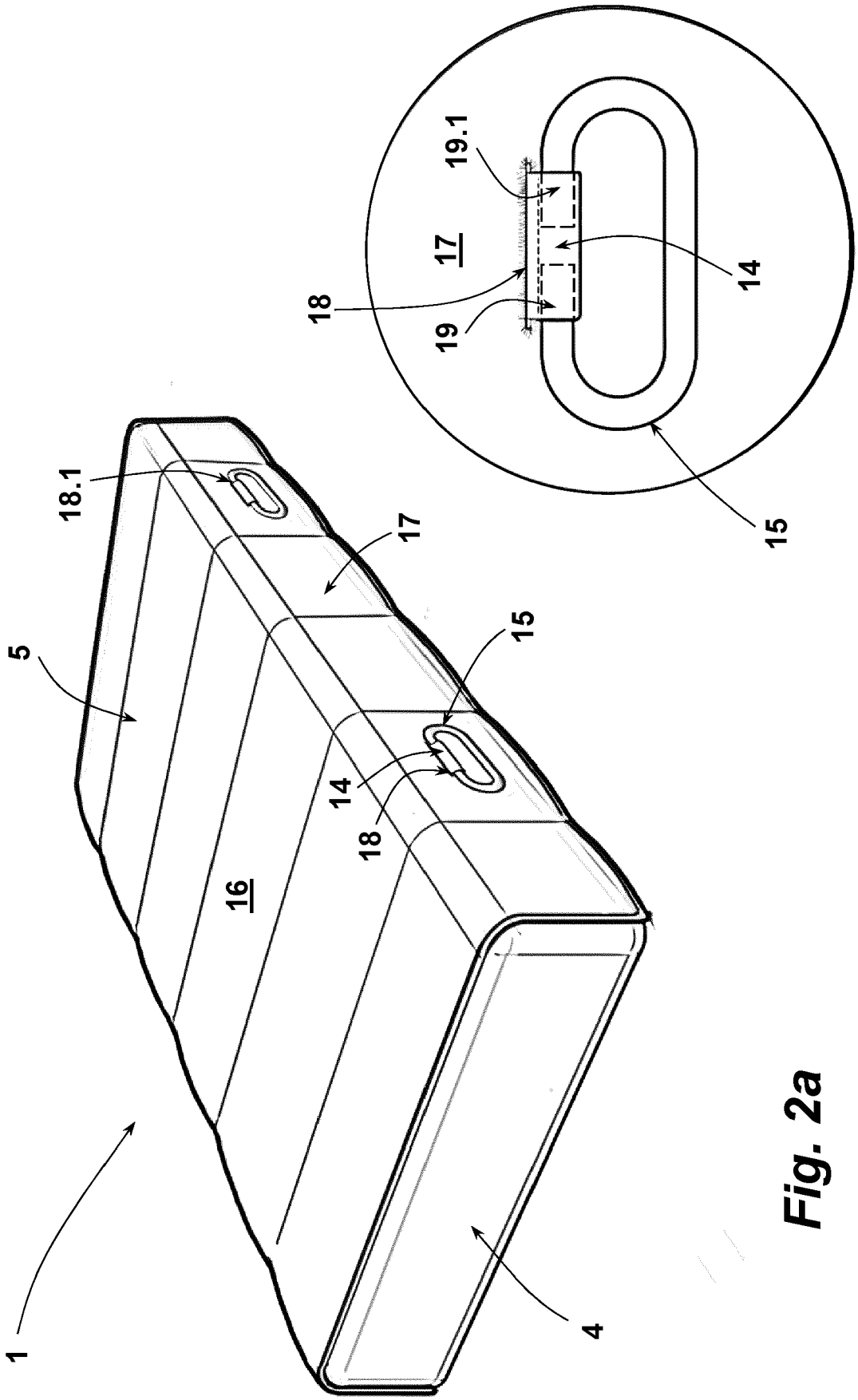

Fig. 2a

Fig. 2b

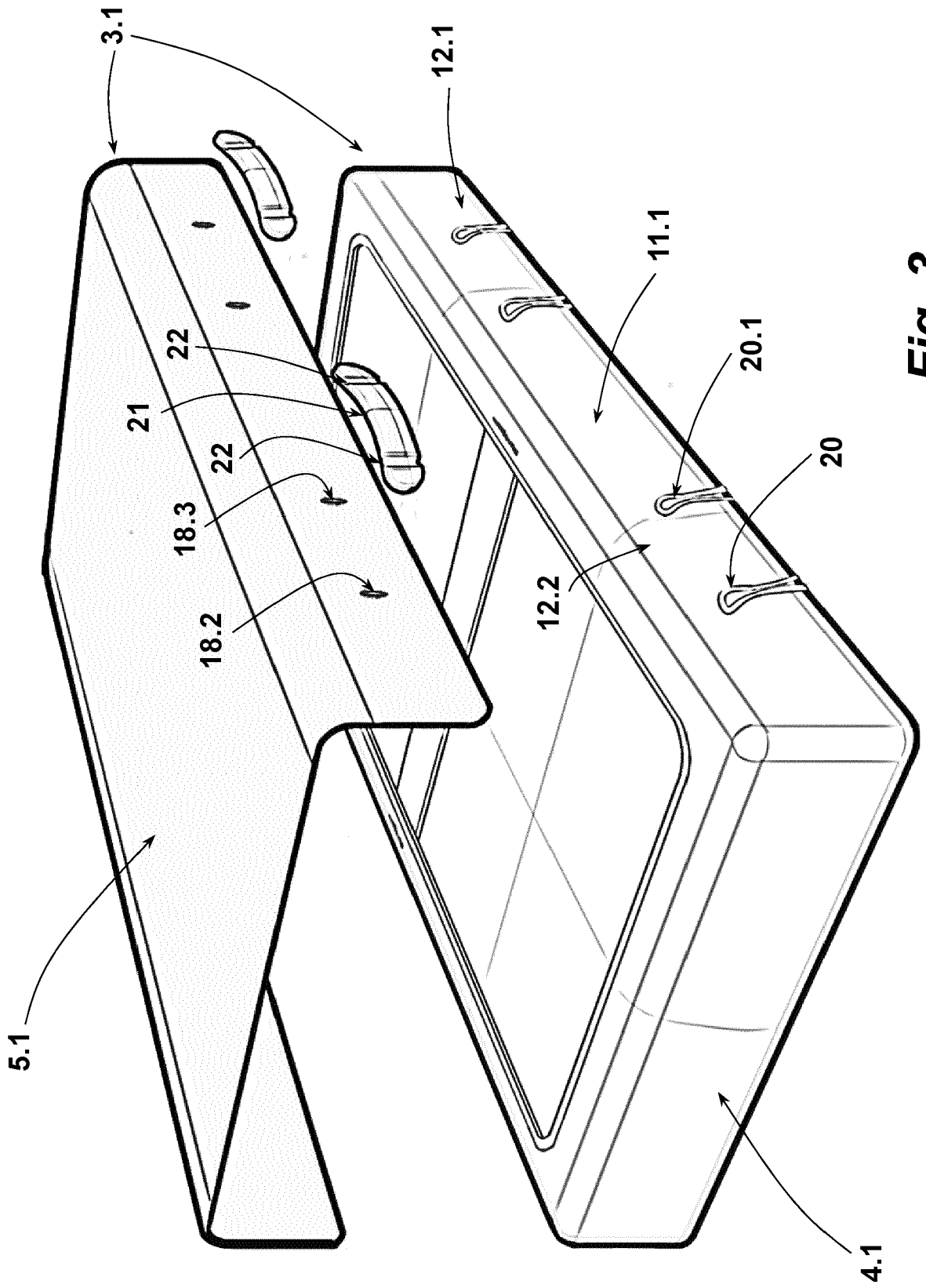

Fig. 3

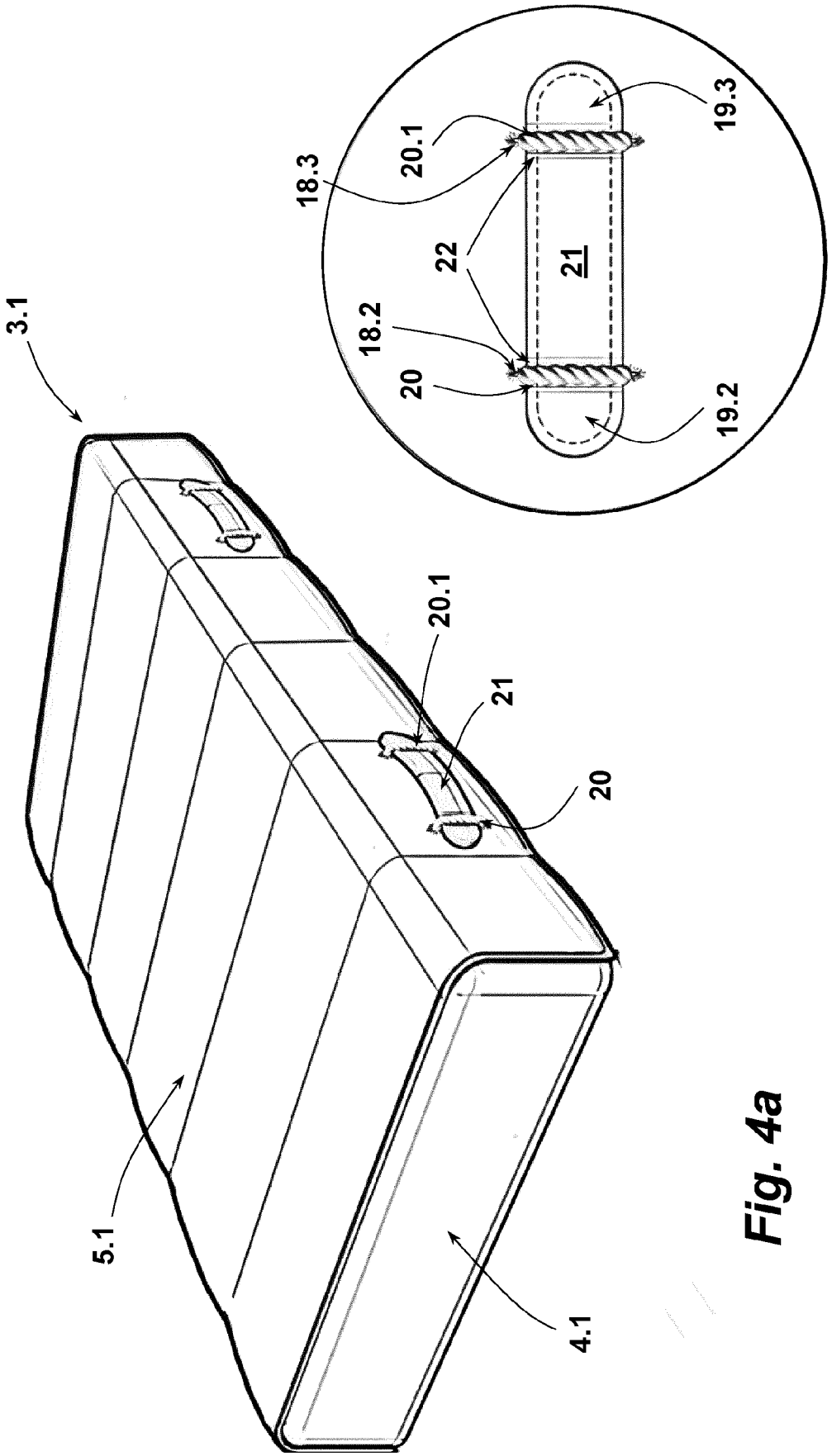

Fig. 4a

Fig. 4b

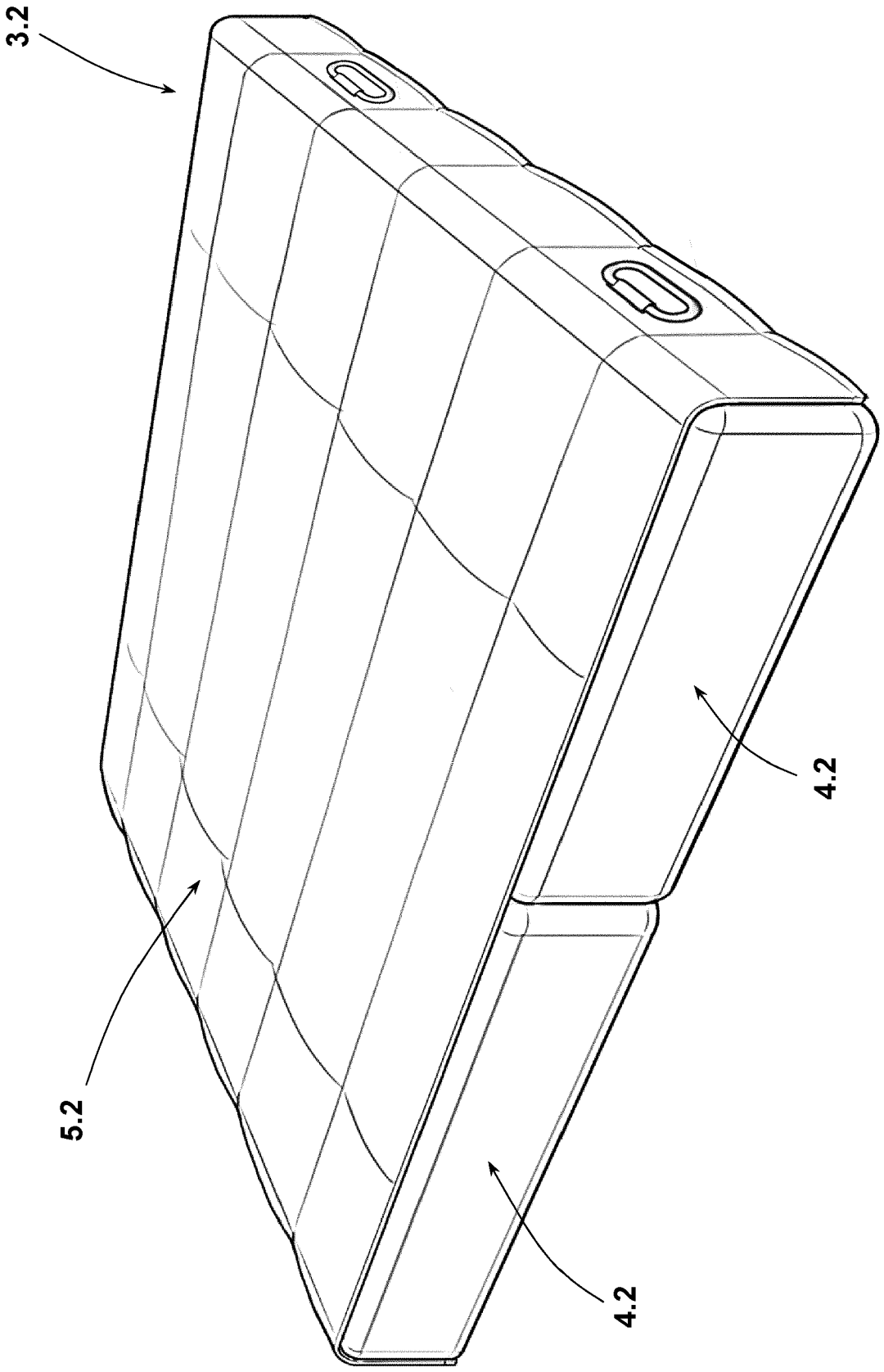

Fig. 5

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EUROPEAN SEARCH REPORT

Application Number
EP 20 15 0489

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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
The Hague	25 March 2020	Kis, Pál

CATEGORY OF CITED DOCUMENTS

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