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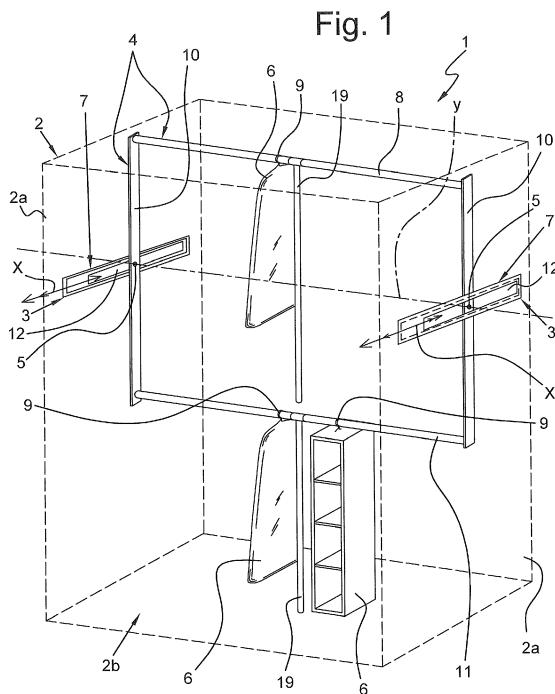
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(54) **ACCESSORY HANGING ITEMS, IN PARTICULAR CLOTHES/CLOTHING, FOR FURNITURE, IN PARTICULAR CUPBOARDS OR CABINETS OR SIMILAR BODIES PRESENTING ACCOMMODATION ROOMS AND FURNITURE, IN PARTICULAR CUPBOARD OR CABINET OR SIMILAR BODY PRESENTING AN ACCOMMODATION ROOM, EQUIPPED WITH THIS ACCESSORY HANGING ITEMS**

(57) An accessory hanging items (1) for furniture (2) comprises: at least one support element (3) engageable with at least one wall (2a) of an accommodation room (2b) of a respective piece of furniture (2); at least one element hanging items (4) operatively engaged with the support element (3) at at least one point of engagement (5) identifiable on the latter and movable between at least two different levels; at least one movement mechanism (7) operatively interposed between the support element (3) and the element hanging items (4) to allow the latter to translate along a predetermined direction (X) between a first limit position, in which the point of engagement (5) of the element hanging items (4) is arranged inside the accommodation room (2b) of the respective piece of furniture (2) and a second limit position, in which the point of engagement (5) of the element hanging items (4) is arranged outside the accommodation room (2b) of the respective piece of furniture (2).



Description

[0001] The present invention relates to an accessory hanging items, in particular clothes/clothing, for furniture, in particular cupboards or cabinets or similar bodies presenting accommodation rooms.

[0002] The object of the present invention also relates to a piece of furniture, in particular a cupboard or a cabinet or a similar body presenting an accommodation room, equipped with the aforementioned accessory hanging items.

[0003] The object of the present invention is used in the sector of furniture and accessories intended for furniture, in particular for cupboards.

[0004] As is known, the cupboards are equipped with special bars hanging clothes which allow the positioning of clothes and/or clothing according to orderly positions inside the respective accommodation rooms.

[0005] Generally, the aforementioned bars hanging clothes are located in a fixed way according to high positions whereby the movement of clothes/clothing requires the use of suitable movement rods.

[0006] In order to facilitate accessibility to the bars hanging clothes and, consequently, to facilitate the movement of hanging clothes/clothing, some movable devices hanging clothes have been developed.

[0007] An example of such movable devices hanging clothes is described in detail and illustrated in document US6105795. In particular, this movable device hanging clothes is equipped with a bar hanging clothes, the ends of which each engage a respective vertical support bar. Each vertical support bar is hinged to a special support plate which is fixed to a respective side wall of the accommodation room of the respective cupboard.

[0008] The movable device hanging clothes also comprises a control rod, which is rotatably engaged, on one side, with the bar hanging clothes and, on the other side, has a grip handle that can be grasped manually by a user.

[0009] By acting on the grip handle, the user can pull the bar hanging clothes which moves along an arched path by rotating, together with each support bar, around the hinge point of the latter to the respective support plate.

[0010] The bar hanging clothes can therefore oscillate between a lifted position, at which it lies inside the accommodation room and a lowered position, at which it lies outside the accommodation room of the cupboard, facilitating the access thereto by the user.

[0011] Although the movable accessory hanging clothes described above facilitates the movement, positioning and removal manoeuvres of the hanging or to be hung clothes/clothing, the Applicant has found that they are not free from some drawbacks and can be improved in various respects, mainly in relation to the flexibility of use of the same, the load capacity, the accessibility to clothes/clothing, as well as the ease of actuation by the users.

[0012] In particular, the Applicant has found that the structural configuration of the oscillating device hanging

clothes is limited to a single bar hanging clothes, presenting significant limits in terms of flexibility of use and storage capacity of clothes of different types such as for example Winter and Summer clothes.

[0013] In other words, in accordance with the structural configuration of the oscillating device hanging clothes described above, in the event that it is necessary to allocate the same bar hanging clothes to only one type of clothes/clothing, for example Summer or Winter clothes, it is necessary to store the other type in another accommodation room of the same cupboard or in an accommodation room of a different cupboard.

[0014] In the event that the bar hanging clothes is allocated to both Summer/Winter types of clothes/clothing to be stored, the quantity of hanging garments for each type is somewhat reduced with the risk of having to store excess garments in another accommodation room of the same cupboard or in an accommodation room of a different cupboard.

[0015] It should also be considered that the movement of the bar hanging clothes from the raised position to the lowered position is somewhat difficult due to the presence of lifting springs which tend to bring the bar hanging clothes back and keep it in the lifted position.

[0016] In other words, since the bar hanging clothes is equipped with an assisted lifting mechanism, which provides precisely for one or more return springs, in order to prevent users from having to exert significant efforts to bring the bar hanging clothes back to the lifted position, the return springs counteract the downward movement of the bar hanging clothes, in any case forcing the user to exert considerable efforts to lower the bar hanging clothes.

[0017] The main object of the present invention is to propose an accessory hanging items, in particular clothes/clothing, for furniture, in particular cupboards or cabinets or similar bodies presenting accommodation rooms as well as a piece of furniture, in particular a cupboard or a cabinet or a similar body presenting an accommodation room, equipped with this accessory, capable of solving the problems found in the prior art.

[0018] An object of the present invention is to propose an accessory hanging items which has a high load capacity for hanging or to be hung items, both in terms of the type of items that can be stored and in terms of the number of items that can be hung.

[0019] It is also an object of the present invention to propose an accessory hanging items which greatly facilitates and simplifies the operations of positioning, movement and removal of the hanging or to be hung items.

[0020] It is also an object of the present invention to propose an accessory hanging items the movement of which can be actuated without excessive efforts by users, even when there are significant loads, caused by the number and/or type of hanging items weighing on the system.

[0021] The objects specified above and others, are substantially reached by an accessory hanging items, in

particular clothes/clothing, for furniture, in particular cupboards and a piece of furniture, in particular a cupboard or a cabinet or a similar body presenting an accommodation room, equipped with this accessory hanging items, as described and claimed in the following claims.

[0022] By way of example, the description of a preferred but not exclusive embodiment of an accessory hanging items, in particular clothes/clothing, for furniture, in particular cupboards or cabinets or similar bodies presenting accommodation rooms and a piece of furniture, in particular a cupboard or a cabinet or a similar body presenting an accommodation room, equipped with this accessory hanging items, is now reported in accordance with the present invention.

[0023] Such description will be made herein below with reference to the accompanying drawings, provided for indicative purposes only and therefore not limiting, wherein:

Figure 1 is a schematic perspective view of an accessory hanging items, in particular clothes/clothing, for furniture, in particular cupboards or cabinets or similar bodies presenting accommodation rooms mounted on a respective piece of furniture, in accordance with a first embodiment of the present invention;

Figure 2 is a partially interrupted schematic front view of the accessory hanging items of Figure 1;

Figure 3 is a partially interrupted schematic front view of the accessory hanging items of the previous figures, mounted on a piece of furniture whose dimensions are different from the piece of furniture shown in Figure 1;

Figure 4 is a schematic side view of the accessory hanging items of Figure 3, represented according to two positions which are relevant for the purposes of the present invention;

Figures from 5 to 8 are schematic side views of the accessory hanging items of the previous figures, representative of the variations in the levels of some portions of the accessory hanging items;

Figure 9 is a schematic perspective view of an accessory hanging items for furniture, in particular cupboards, in accordance with a third embodiment of the present invention;

Figure 10 is a schematic perspective view of a detail of an accessory hanging items, in particular clothes/clothing, for furniture, in particular cupboards, in accordance with a fourth embodiment of the present invention.

[0024] With reference to Figures from 1 to 9, number 1 generally indicates an accessory hanging items, in particular clothes/clothing, for furniture 2, in particular cupboards or cabinets or similar bodies presenting accommodation rooms, in accordance with the present invention.

[0025] As can be seen in Figures from 1 to 10, the

accessory hanging items 1 comprises at least one support element 3 engageable with a wall 2a of an accommodation room 2b of a respective piece of furniture 2, in particular a cupboard.

[0026] Preferably, the accessory hanging items 1 comprises two support elements 3 engageable with respective opposite walls 2a of the accommodation room 2b of the respective piece of furniture 2.

[0027] The accessory hanging items 1 further comprises at least one element hanging items 4 operatively engaged with at least one support element 3, at at least one point of engagement 5 identifiable on the latter.

[0028] In accordance with the embodiments illustrated in Figures from 1 to 10, the element hanging items 4 is engaged with both support elements 3 at corresponding points of engagement 5 identified therein.

[0029] Advantageously, the element hanging items 4 is movable between at least two different levels so that the hanging items 6 can be lifted or lowered according to the needs.

[0030] According to an advantageous aspect of the present invention, the accessory hanging items 1 further comprises at least one movement mechanism 7 operatively interposed between each support element 3 and the element hanging items 4 to allow the latter to move, optionally through a translation along a predetermined direction X, between a first limit position (figures 1, 4, 5 and 10), in which each point of engagement 5 of the element hanging items 4 with the support element 3 is arranged inside the accommodation room 2b of the respective piece of furniture 2 and a second limit position (figures 4 and 6 to 9), in which each point of engagement 5 of the element hanging items 4 with the support element 3 is arranged outside the accommodation room 2b of the respective piece of furniture 2.

[0031] Preferably, the movement mechanism 7 is arranged to bring the point of engagement 5 of the element hanging items 4 with the support elements 3, to the second position, at a distance of not less than 100mm from the piece of furniture 2, preferably not less than 200mm, even more preferably not less than 250mm.

[0032] Optionally, the movement mechanism 7 provided between each support element 3 and the element hanging items 4 is equipped with a movement absorbing system (not illustrated in the appended figures) which intervenes at the end part of the displacement of the element hanging items 4 between the first and second position so as to slow down the latter before it stops in the first and/or second position. In this way, the movement of the element hanging items 4 is made more fluid, avoiding abrupt stops at the end of the travel that the latter can have between the first and second position.

[0033] Going into more detail, the element hanging items 4 of the accessory hanging items 1 comprises at least one bar hanging items 8 designed to support a plurality of items 6 by means of respective intermediate support elements 9 which are not part of the invention. In the case in which the items 6 consist of clothes/clothing, the

support elements can consist of hangers or similar cloth hangers, for example. If, instead, the items 6 consist of any other object, such as, for example, hanging clothes holders, hanging shoes holders, hanging all-purpose holders and the like, the support elements can consist of special hooks or similar engagement elements, for example.

[0034] The accessory hanging items 1 further comprises at least one support bar 10, preferably two substantially parallel to each other, each engaged, on one side, with the bar hanging items 8, and operatively engaged, on the other side, with the respective support element 3 so as to allow the bar hanging items 8 to move between at least two different levels.

[0035] Still with reference to Figures from 1 to 10, the element hanging items 4 of the accessory hanging items 1 further comprises at least one auxiliary bar hanging items 11, which, optionally, extends substantially parallel to the bar hanging items 8.

[0036] Also the auxiliary bar hanging items 11 is engaged with the support bars 10 or with the support bars 10 on the opposite side with respect to the bar hanging items 8 so as to define a substantially squared assembly, preferably substantially rectangular.

[0037] Each bar hanging items 8, 11 of the element hanging items 4 is extendable, preferably telescopically, to allow the adjustment of the dimensions of the latter with respect to the dimensions of the accommodation room 2b of the respective piece of furniture 2.

[0038] The adjustment of the lengthening of each bar hanging items 8, 11 further allows a dimensional compensation between the element bar hanging items 4 and the accommodation room 2b of the respective piece of furniture 2 in the event of slight structural defects of the latter or defects caused during the mounting phase.

[0039] It also allows the element hanging clothes 4 to be accommodated inside most of the cupboards, regardless of their size.

[0040] In order to allow the engagement of bulky items 6 between a bar hanging items 8, 11 and the other one while preventing these items 6 from interfering with one of the bars holding items 8, 11, the length of each support bar 10 is not less than 100mm, preferably not less than 110mm.

[0041] In accordance with a preferred embodiment of the present invention, the accessory hanging items 1 comprises, for each provided support bar 10, at least one element for the constraint to the respective support element 3. Each constraint element ensures the engagement between the respective support bar 10 of the element hanging items 4 and the respective support element 3 through the respective movement mechanism 7 interposed therebetween.

[0042] In detail, the constraint element of each support bar 10 defines, through the respective movement mechanism 7, the corresponding point of engagement 5 of the support bar 10 of the element hanging items 4 with the respective support element 3.

[0043] The constraint element of each support bar 10 of the element hanging items 4 is located according to an intermediate position at the respective ends of said support bar 10, preferably at a midpoint of said support bar 10.

[0044] In other words, the constraint element is located between the bar hanging items 8 and the auxiliary bar hanging items 11.

[0045] According to a preferred aspect of the present invention, the constraint element of each support bar 10 is a rotational constraint element which defines an axis of rotation Y, which is transversal, preferably substantially perpendicular, to a respective wall 2a of the accommodation room 2b of the piece of furniture 2.

[0046] The element hanging items 4 is therefore rotatably movable around the axis of rotation Y whereby the bar hanging items 8 and the auxiliary bar hanging items 11 rotate around the constraint elements to take on different levels.

[0047] The constraint element of each support bar 10 allows a rotation of the element hanging items 4 around the axis of rotation Y by an angle of not less than 140°.

[0048] By rotating the element hanging items 4 around the axis of rotation Y, it is possible to lift or lower the items 6 hanging on the respective bars hanging items 8, 10.

[0049] Depending on the rotation angle of the element hanging items 4 around the axis of rotation Y, it is possible to invert the positions of the bars hanging items 8, 11 by moving these items 6 close to or away from the user's access area.

[0050] Advantageously, the freedom of rotation of the element hanging items 4 allows the bulk replacement of items 6 of a first type (for example Summer clothes/clothing) with items 6 of a second type (for example Winter clothes/clothing) and vice versa.

[0051] If the items 6 of the first type are hanging on the bar hanging items 8 and the items 6 of the second type are hanging on the auxiliary bar hanging items 11, it is sufficient to rotate the element hanging items 4 by 180° around the axis of rotation Y to invert the positions of these bars hanging items 8, 11 and move one of the two types of the items 6 close to or away from an area accessible to a user.

[0052] In detail, the rotation of the element hanging items 4 around the axis of rotation Y defined by the elements for the constraint of the latter to the support elements 3 allows a bar hanging items 8, 11 to be lifted/lowered with respect to the other bar hanging items 8, 11.

[0053] Preferably, the element hanging items 4 is equipped with an absorbing mechanism (not shown in the appended figures) capable of slowing down the rotation thereof around the axis of rotation Y in order to guarantee the safety of users in the event that heavy loads are placed on the bars hanging items 8, 11.

[0054] Advantageously, the rotation absorbing mechanism of the element hanging items 4 is operatively associated with the constraint elements.

[0055] In addition, the damping action of the rotation

speed of the element hanging items 4 is adjustable so that, according to the load placed on the bars hanging items 8, 11, it is possible to determine the level of slowing down of the rotation speed of the element hanging items 4.

[0056] Advantageously, each bar hanging items 8, 11 comprises a plurality of grooves (not visible in the appended figures), preferably transversal, capable of keeping the clothes at a constant distance between them and avoiding, during the rotation of the element hanging items 4, that the hanging items 6 can slide along the respective bar hanging items 8, 11 moving towards an end of the latter.

[0057] According to a further advantageous aspect of the present invention, the grooves of each bar hanging items 8, 11 are oriented obliquely with respect to the longitudinal extension of the latter, so as to reduce the sizes of the items in relation to the depth of the accommodation room 2b of the respective piece of furniture 2.

[0058] Alternatively, it is possible to provide for each bar hanging items 8, 11 to be knurled or to have a wavy extension or to have a serrated extension.

[0059] In accordance with an advantageous aspect of the present invention, each support bar 10 of the element hanging items 4 is extendable, preferably telescopically, so as to move at least one of the bars hanging items 8, 11 away from/close to the respective constraint element and, consequently, to the respective point of engagement 5.

[0060] In this way it is possible to adjust the distance between the two bars hanging items 8, 11, both according to the volume available in the respective accommodation room 2b of the piece of furniture 2 and to the maximum dimensions of the hanging or to be hung items 6.

[0061] It should also be considered that the adjustment in the lengthening of the support bars 10 of the element hanging items 4 also allows an adjustment of the balancing of the latter with respect to the constraint elements, as well as to the points of engagement 5 with the support elements 3 by means of the respective movement mechanisms 7.

[0062] In order to make the accessory hanging items 1 easy and simple to pack, store and transport, reducing the overall sizes thereof, the bars hanging items 8, 11 and the support bars 10, consist of segments, with reduced dimensions, which can be assembled between them by means of corresponding known joining elements.

[0063] In detail, the length of each segment provided for the assembly of the element hanging items 4 is comprised between 40mm and 60mm, preferably not greater than 50mm.

[0064] In accordance with the embodiment illustrated in Figures from 1 and from 4 to 8, the movement mechanism 7 comprises, for each support element 3, at least one movement bar 12 on which the respective constraint element of the element hanging items 4 is engaged.

[0065] Advantageously, the movement bar 12 of the

movement mechanism 7 is slidably engaged with the respective support element 3 to allow the displacement of the respective constraint element and, consequently, of the respective point of engagement 5, between the first and second position.

[0066] The movement bar 12 of each movement mechanism 7 is advantageously extendable, preferably telescopically, to allow the displacement of the respective constraint element and, consequently of the respective point of engagement 5, between the first and second position.

[0067] In accordance with the embodiment illustrated in Figure 9, each movement mechanism 7 can provide, alternatively to the movement bar 12, for at least one pantograph extension 13 on which the respective constraint element of the element hanging items 4 is engaged, which identifies the respective point of engagement 5 of the latter with the corresponding support element 3.

[0068] As can be seen in Figure 9, each pantograph element 13 is extendable to allow the displacement of the respective constraint element and, consequently of the corresponding point of engagement 5, between the first and second position.

[0069] According to a further alternative embodiment illustrated in Figure 10, each movement mechanism 7 comprises at least one lever system 14 on which the respective constraint element of the element hanging items 4 is engaged.

[0070] The lever system 14 of each movement mechanism 7 is switchable between a retracted condition in which it has a down configuration and an extended condition to allow the displacement of the respective constraint element and, consequently, of the respective point of engagement 5, between the first and the second position.

[0071] As can be seen in Figures from 2 to 4, the accessory hanging items 1 further comprises at least one locking device 15 operatively interposed between at least one support element 3 and the element hanging items 4.

[0072] In detail, the locking device 15 is switchable between a non-operating condition in which the element hanging items 4 is free to move between at least two different levels and an operating condition, in which the element hanging items 4 is locked with respect to the respective support element 3.

[0073] In accordance with the embodiment illustrated in Figures from 2 to 4, the locking device 15 comprises at least one interference pin 16 or other similar interference element arranged to interact with at least one of the support bars 10 of the element hanging items 4 and the respective support element 3 or with an abutment structure 17 associated therewith.

[0074] When the locking device 15 is in the operating condition, the interference pin 16 which engages the respective support element 3, the respective abutment structure 17 engages a respective seat 18 formed in the respective support bar 10 of the element hanging items

4, counteracting any rotation of the latter around the axis of rotation Y.

[0075] When the locking device 15 is in the non-operating condition, the interference pin 16 disengages the respective support bar 10 of the element hanging items allowing it to rotate around the axis of rotation Y to invert the position and change the levels of the bars hanging items 8, 11.

[0076] Of course, the locking device 15 can be different from the one described above and illustrated in Figures from 2 to 4.

[0077] As an alternative to the illustrated embodiment of the locking device 15, it is possible to provide that the locking device is formed directly on at least one of the elements for the constraint of the element hanging items 4 with the support elements 3 so that the locking device is able to act directly on the respective points of engagement 5 allowing or inhibiting the rotations of the element hanging items 4 around the axis of rotation Y.

[0078] Advantageously, the element hanging items 4 further comprises at least one actuation bar 19 (Figures from 1 to 3), preferably two, each engaged with a respective bar hanging items 8, 11 to allow the rotation movement of the element hanging items 4 by any user.

[0079] In addition, the accessory hanging items 1 is also equipped with at least one motorization device or a similar movement actuation device (not illustrated in the appended figures), preferably an electric motor, which can be activated so as to put the element hanging items 4 in rotation around the axis of rotation Y and/or to displace the latter between the first and second position.

[0080] The operation of the accessory hanging items 1, so far mainly described structurally, is as follows.

[0081] Being equipped with two bars hanging items 8, 11, the accessory hanging items 1 allows the storage of two parallel rows A, B of items 6, arranged on two different levels, inside the accommodation room 2b of the piece of furniture 2, as can be seen in Figures from 1 to 5.

[0082] In this situation, the element hanging items 4 is in the first position, that is with the points of engagement 5 with the respective support elements 3 arranged inside the accommodation room 2b of the piece of furniture 2.

[0083] The row A of the items 6 of the bar hanging items 8 is at a higher level than the row B of the items 6 of the auxiliary bar hanging items 11.

[0084] When it is necessary to more easily access the items 6 of both rows A, B or to invert the position of the latter, it is necessary to act on the movement mechanism 7 interposed between each support bar 10 of the element hanging items 4 and the respective support element 3 to displace the element hanging items 4 from the first to the second position (Figures 6 to 8), at which the constraint elements and, consequently, the points of engagement 5 of the element hanging items 4 with the support elements are located outside the accommodation room 2b of the respective piece of furniture 2.

[0085] When the element hanging items 4 is in the second position (Figures from 6 to 8) it is possible to switch

the locking device 15 from the operating condition to the non-operating condition in order to free the element hanging items 4 so as to invert the position of the bars hanging items 8, 11 and, therefore, of the rows A, B of the items 6 carried by them, by rotating the element hanging items 4 around the axis of rotation Y, i.e. around the respective constraint elements and the points of engagement 5 (Figure 7).

[0086] When rotation is complete, the rows A, B of the items 6 of the bars hanging items 8, 11 are inverted (Figure 8) whereby it is possible to switch the locking device 15 from the non-operating condition to the operating condition to lock the rotation of the bars hanging items 8, 11 and bring the items 6 back into the accommodation room 2b of the piece of furniture 2 by displacing the element hanging items 4 from the second to the first position.

[0087] The accessory hanging items and the piece of furniture equipped with this accessory solve the problems observed in the known technique and achieve important advantages.

[0088] First of all, the accessory hanging items according to the present invention has a high storage capacity in that it allows the orderly positioning of two rows of items inside the respective piece of furniture which can easily and readily be inverted according to the users' needs. This feature allows the simple bulk replacement of a first type of items with the second type and vice versa, while maintaining all the items stored inside the respective piece of furniture.

[0089] It should also be considered that the easy mobility of the element hanging items outside the accommodation room of the piece of furniture, together with its ability to rotate around the axis of rotation defined by the respective constraint elements, considerably facilitates the items to be picked from the bars hanging items as well as their positioning on the bars hanging items.

[0090] It should also be noted that the accessory hanging items easily adapts to any type of furniture since the bars hanging items, such as the support bars, can be adjusted quickly and easily.

[0091] In addition, the rotation of the bars hanging items is facilitated by the same balancing of the element hanging items. In fact, the items of one bar hanging items act as a counterweight to the items of the other bar hanging items so that the manual rotation of the element hanging items, even under conditions of significant loads, is not tiring for users.

50 Claims

1. An accessory hanging items (1), preferably clothes/clothing, for furniture (2), in particular cupboards or cabinets or similar bodies presenting accommodation rooms, comprising:
- at least one support element (3) engageable with a wall (2a) of an accommodation room (2b)

of a respective piece of furniture (2), preferably two support elements (3) engageable with respective opposite walls (2a) of the accommodation room (2b) of the respective piece of furniture (2);

- at least one element hanging items (4) operatively engaged with the support element (3) at at least one point of engagement (5) identifiable on the latter, the element hanging items (4) being movable between at least two different levels; the element hanging items (4) comprising at least one bar hanging items (8) designed to support a plurality of items (6), at least one support bar (10), preferably two substantially parallel to each other, engaged on one side with the bar hanging items (8) and operatively engaged, on the other side, with the support element (3) so as to allow the bar hanging items (8) to move between at least two different levels, - at least one movement mechanism (7) operatively interposed between the support element (3) and the element hanging items (4) to allow the latter to move along a predetermined direction (X), between a first limit position, in which the point of engagement (5) of the element hanging items (4) is arranged inside the accommodation room (2b) of the respective piece of furniture (2) and a second limit position, in which the point of engagement (5) of the element hanging items (4) is arranged outside the accommodation room (2b) of the respective piece of furniture (2),

characterized in that the element hanging items (4) comprises, for each provided support bar (10), at least one rotational constraint element which defines an axis of rotation (Y), which is transversal to a respective wall (2a) of the accommodation room (2b) of the piece of furniture (2), said rotational constraint element being configured to:

- ensure the engagement between the respective support bar (10) of the element hanging items (4) and the respective support element (3) through the respective movement mechanism (7) interposed therebetween;
 - allow the rotation of the element hanging items (4) around the axis of rotation (Y).

2. The accessory hanging items according to claim 1, wherein the constraint element of each support bar (10) allows a rotation of the element hanging items (4) around the axis of rotation (Y) by an angle of not less than 140°.
3. The accessory hanging items (1) according to claim 1 or 2, wherein each constraint element of the support bar (10) defines, through the respective move-

ment mechanism (7), the corresponding point of engagement (5) of the support bar (10) of the element hanging items (4) with the respective support element (3).

4. The accessory hanging items (1) according to any one of claims 1 to 3, wherein the constraint element of each support bar (10) is located according to an intermediate position at the respective ends of said support bar (10), preferably at a midpoint of said support bar (10).
5. The accessory hanging items (1) according to any one of claims 1 to 4, wherein the element hanging items (4) further comprises at least one auxiliary bar hanging items (11), which, optionally, extends substantially parallel to the bar hanging items (8), the auxiliary bar hanging items (11) being engaged with the support bar (10) or with the support bars (10) on the opposite side with respect to the bar hanging items (8) so as to define a substantially squared assembly, preferably substantially rectangular.
6. The accessory hanging items (1) according to claim 5, wherein the element hanging items (4) being rotatably movable around the axis of rotation (Y) whereby the bar hanging items (8) and the auxiliary bar hanging items (11) are arranged to rotate around the axis of rotation (Y) and to take on different levels.
7. The accessory hanging items (1) according to any one of claims 1 to 6, wherein the movement mechanism (7) comprises, for each support element (3), at least one movement bar (12) on which the respective constraint element of the element hanging items (4) is engaged, the movement bar (12) being slidably engaged with the respective support element (3) to allow the displacement of the respective constraint element and, consequently, of the point of engagement (5), between the first and second position.
8. The accessory hanging items (1) according to any one of claims 1 to 7, wherein the movement mechanism (7) comprises, for each support element (3), at least one movement bar (12) on which the respective constraint element of the element hanging items (4) is engaged, the movement bar (12) being extendable, preferably telescopically, to allow the displacement of the respective constraint element and, consequently, of the point of engagement (5), between the first and second position.
9. The accessory (1) according to any one of claims 5 to 8, wherein each provided support bar (10) of the element hanging items (4) is extendable, preferably telescopically, so as to move at least one of the bars hanging items (8, 11) away from/close to the respective constraint element and, consequently, to the re-

spective point of engagement (5).

10. The accessory hanging items (1) according to any one of claims 5 to 9, wherein each bar hanging items (8, 11) of the element hanging items (4) is extendable, preferably telescopically, to allow the adjustment of the latter with respect to the dimensions of the accommodation room (2b) of the piece of furniture (2). 5

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11. The accessory hanging items (1) according to any one of the preceding claims, further comprising at least one locking device (15) operatively interposed between at least one support element (3) and the element hanging items (4), the locking device (15) being switchable between a non-operating condition in which the element hanging items (4) is free to move between at least two different levels and an operating condition, in which the element hanging items (4) is locked with respect to the support element (3). 15

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12. A cupboard comprising at least one accommodation room (2b) **characterized in that** it also comprises at least one accessory hanging items (1) according to any one of the preceding claims. 25

13. A cabinet comprising at least one accommodation room (2b) **characterized in that** it also comprises at least one accessory hanging items (1) according to any one of claims 1 to 11. 30

14. A body presenting an accommodation room (2b) **characterized in that** it also comprises at least one accessory hanging items (1) according to any one of claims 1 to 11. 35

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Fig. 1

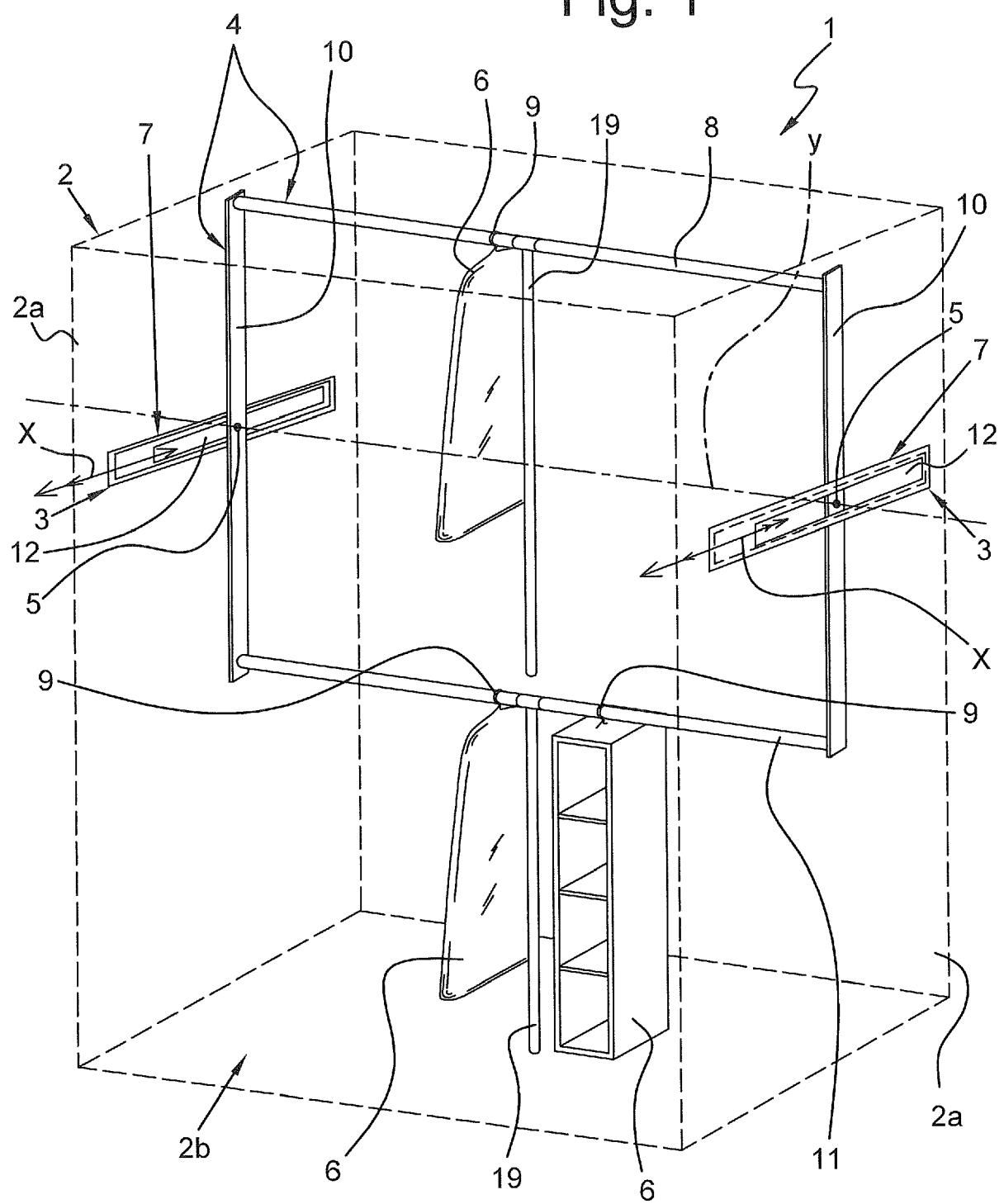


Fig. 2

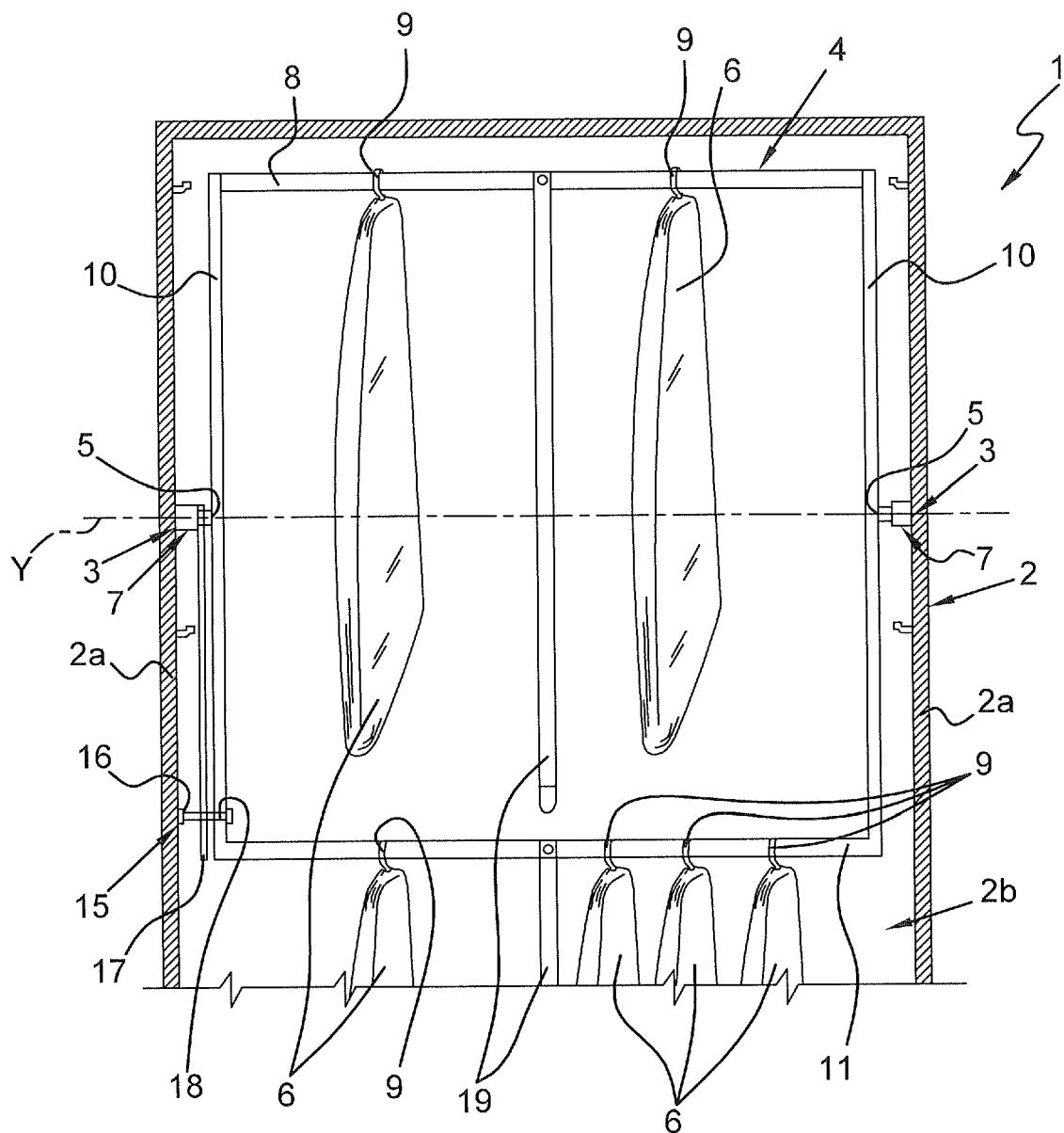


Fig. 3

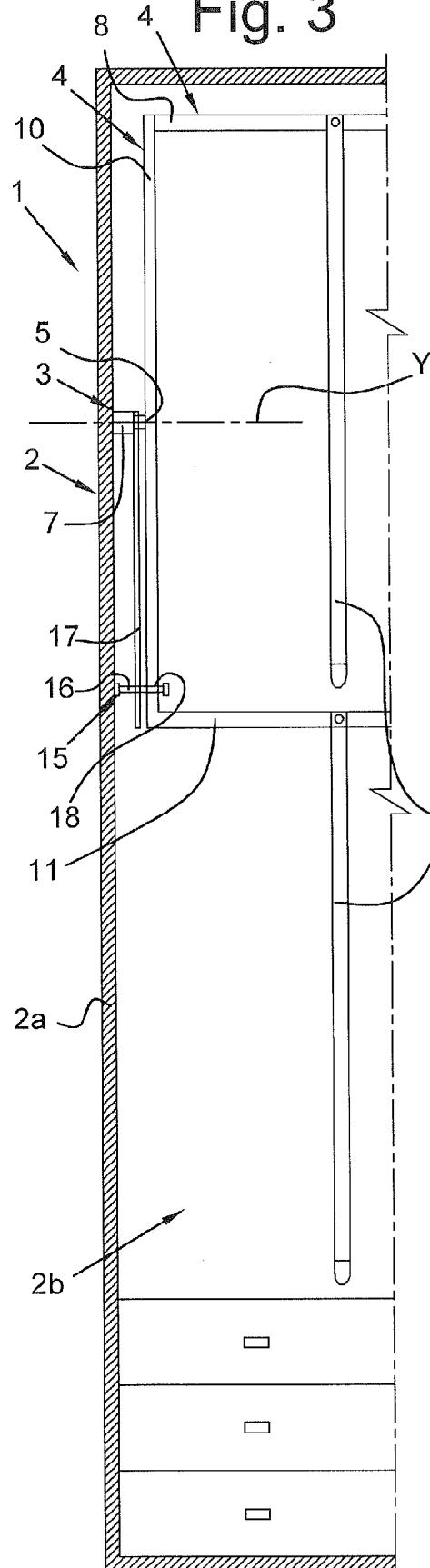


Fig. 4

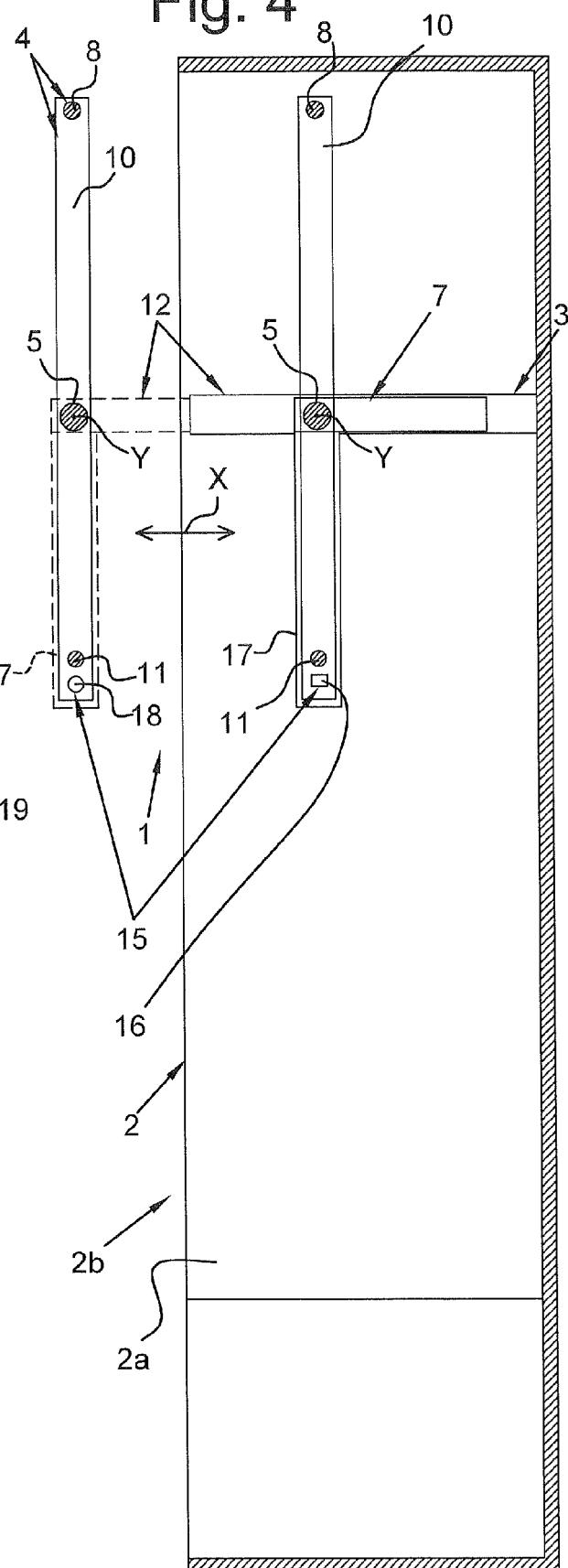


Fig. 5

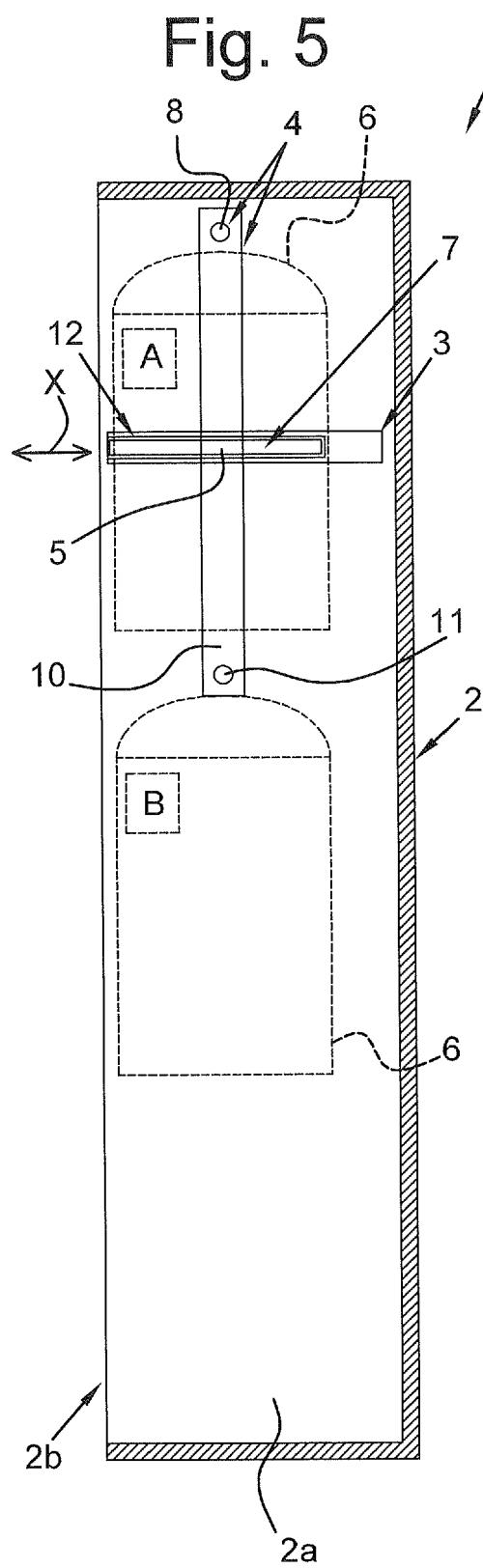


Fig. 6

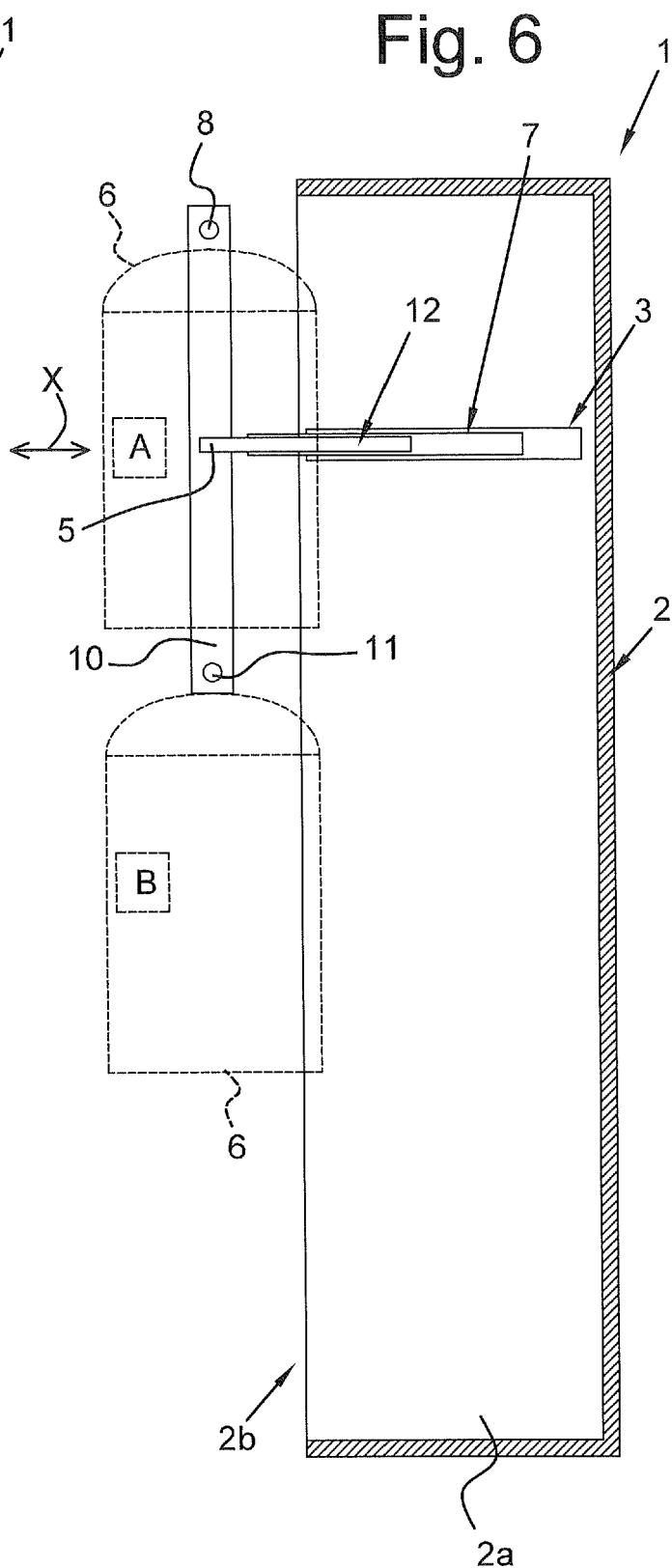


Fig. 7

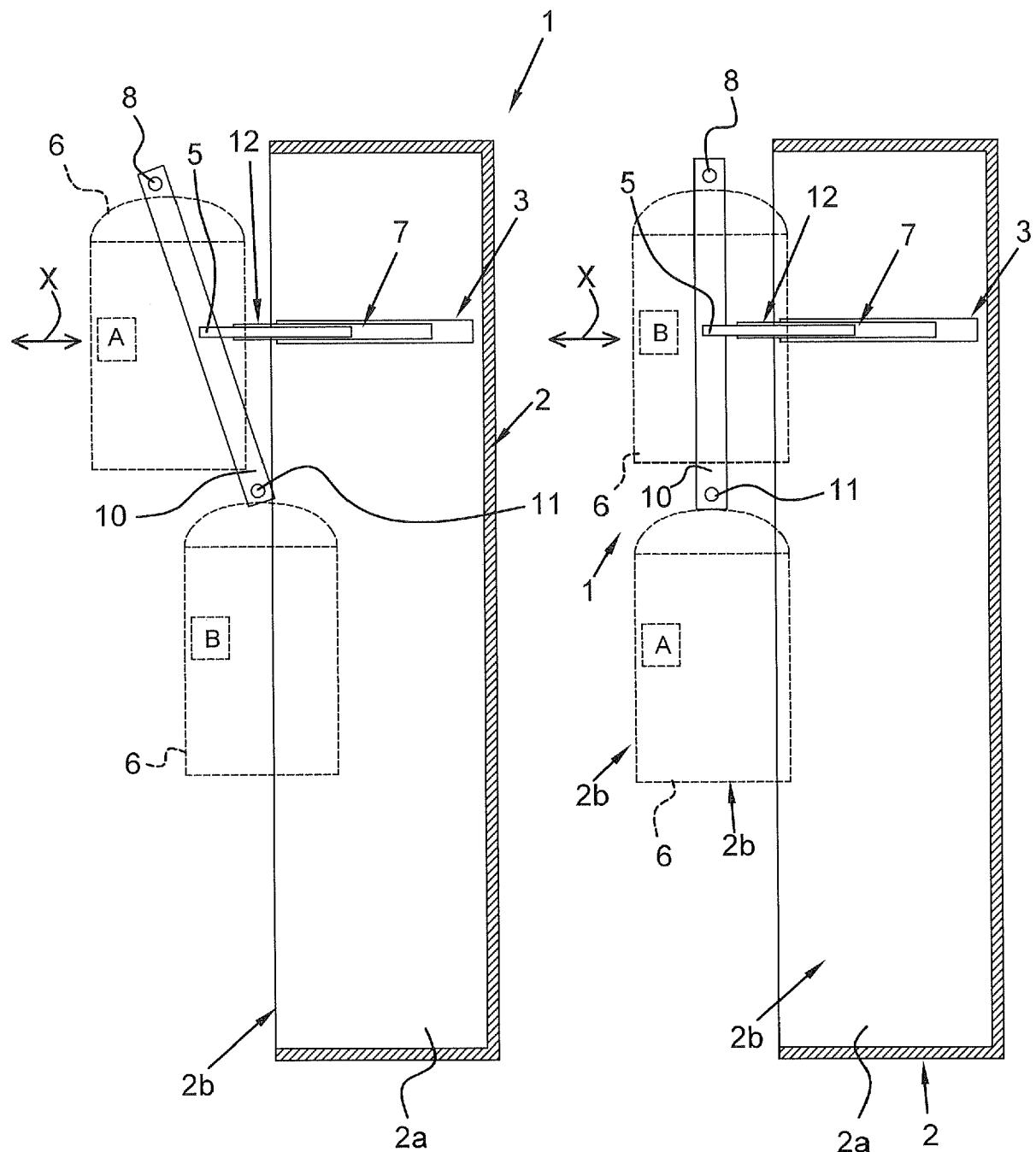


Fig. 8

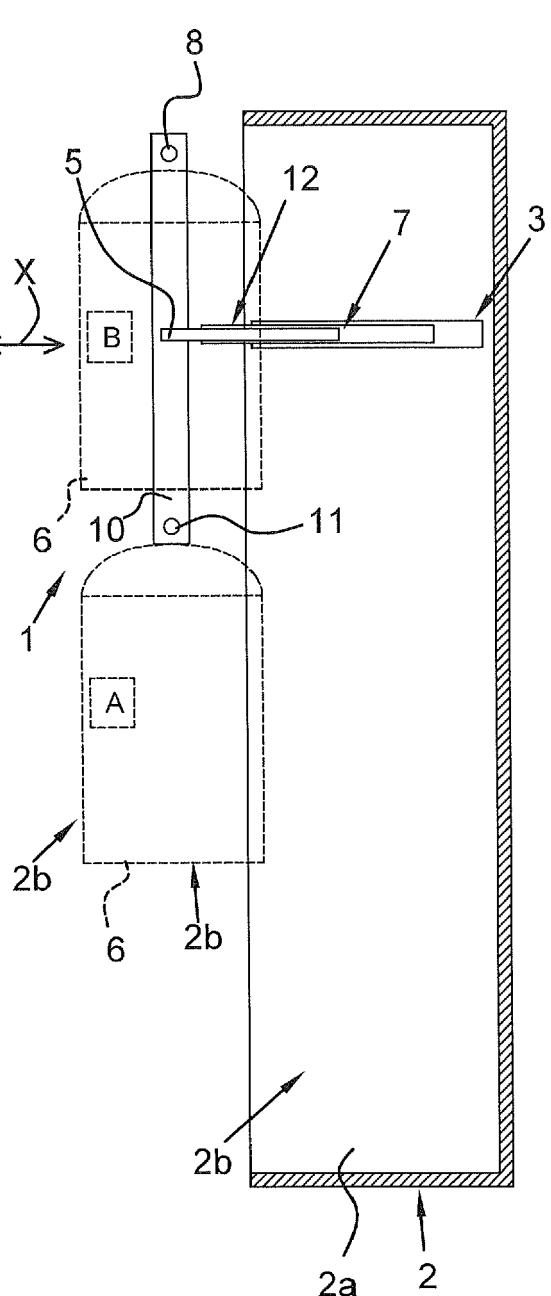


Fig. 9

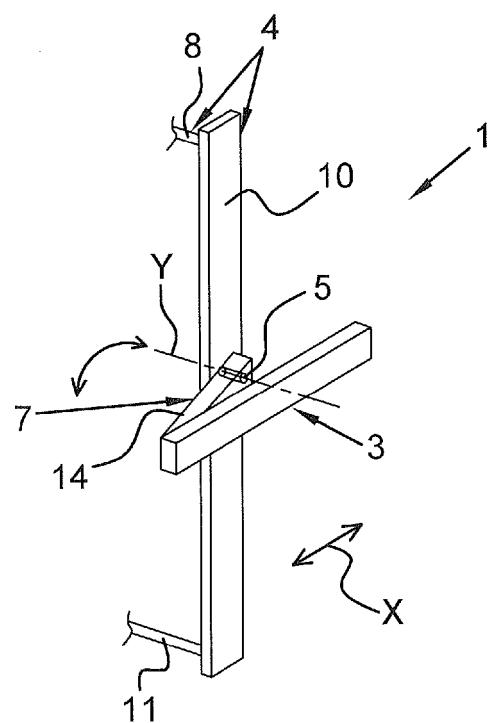
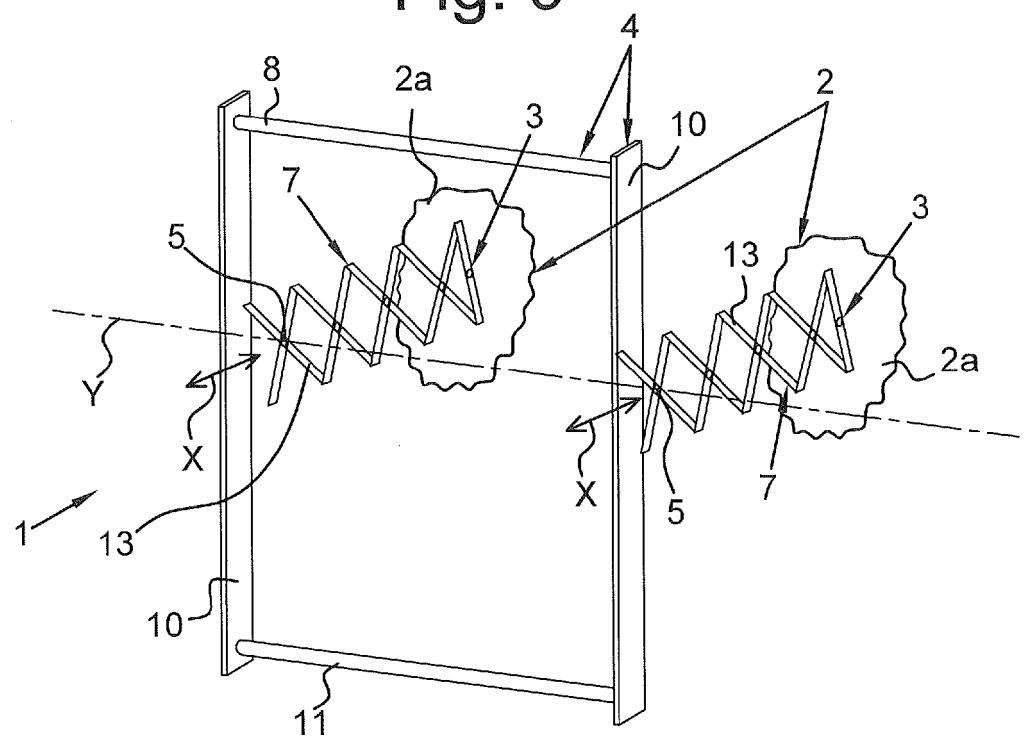


Fig. 10



EUROPEAN SEARCH REPORT

Application Number
EP 19 21 5403

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	EP 0 263 639 A1 (HAWKRIGE ALFRED EDMOND) 13 April 1988 (1988-04-13) * column 1 - column 4; figures 1-3 * -----	1-14	INV. A47B61/02
The present search report has been drawn up for all claims			
3			
Place of search The Hague			
Date of completion of the search 25 February 2020			
Examiner Kohler, Pierre			
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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ON EUROPEAN PATENT APPLICATION NO.**

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5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

25-02-2020

10	Patent document cited in search report	Publication date		Patent family member(s)	Publication date
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