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(54) **FOLDABLE CLOTHES DRYING RACK**

ZUSAMMENKLAPPBARES KLEIDUNGSTROCKNUNGSGESTELL

ÉTENDOIR DE VÊTEMENTS PLIABLE

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Description

TECHNICAL FIELD

[0001] The present disclosure generally relates to clothes drying racks. In particular, it relates to a foldable clothes drying rack.

BACKGROUND

[0002] Clothes drying racks of the foldable type may comprise a main frame, two lateral wings which are pivotally coupled to opposite ends of the main frame, and legs that are pivotally coupled to the main frame. The lateral wings may be foldable towards each other, and the legs may be placed in a folded position towards the main frame, thus minimising the size of the clothes drying rack when not in use.

[0003] When a clothes drying rack has been placed in its folded state by folding of the legs and lateral wings, there is a risk that the legs and/or lateral wings will unfold when handling the clothes drying rack, for example when moved from one location to another.

[0004] There are several existing solutions for maintaining a clothes drying rack in a folded state. The utility model DE202004009881, for example, discloses a clothes dryer that has a holding clamp for holding the lateral wings of the clothes dryer so that the dryer can be stored in the vertical position after use without the lateral wings unfolding from the main frame. The clamp is placed around portions of the lateral wings which face each other in the folded position, thus locking the lateral wings in this position.

[0005] WO2005113882 shows another example of a clothes drying rack which has lateral wings that are fixed when the clothes drying rack is folded. In particular, each lateral wing is folded towards a respective leg and fixed thereto, wherein both legs are folded towards the main frame to obtain a folded clothes drying rack.

SUMMARY

[0006] DE202004009881 relies on clamps that are external to the clothes drying rack for locking the lateral wings in the folded position.

[0007] In view of the above, an object of the present disclosure is to solve, or at least mitigate, the problems of the prior art.

[0008] There is hence provided a clothes drying rack comprising a frame, a first lateral wing pivotally coupled to a first end portion of the frame, a second lateral wing pivotally coupled to a second end portion of the frame, each of the first lateral wing and the second lateral wing being pivotable between a folded wing position relative to the frame, the first lateral wing and the second lateral wing being foldable towards each other to obtain their folded wing position, and an unfolded wing position relative to the frame, wherein the first lateral wing is pivot-

able in a first rotational direction to obtain its folded wing position and the second lateral wing is pivotable in a second rotational direction, opposite to the first rotational direction, to obtain its folded wing position, a first leg pivotally coupled to the first end portion of the frame, wherein the first leg is pivotable between a folded leg position and an unfolded leg position relative to the frame, wherein the first leg is pivotable in the second rotational direction to obtain its folded leg position, a second leg pivotally coupled to the second end portion of the frame, wherein the second leg is pivotable between a folded leg position and an unfolded leg position relative to the frame, and a locking arrangement fixedly mounted to the clothes drying rack, wherein the first lateral wing and the second lateral wing form a lateral wing arrangement and the first leg and the second leg form a leg arrangement, and wherein the locking arrangement is arranged to interlock the lateral wing arrangement with the leg arrangement when the first leg and the second leg is in the folded leg position and the first lateral wing and the second lateral wing is in the folded wing position.

[0009] Hence the clothes drying rack remains in its folded state when the legs and the lateral wings have obtained their folded leg positions and folded wing positions, respectively. In particular, this may be obtained in a simple manner as a consequence of folding of the legs and the lateral wings, without the utilisation of any external means.

[0010] According to one embodiment the locking arrangement is arranged to interlock the first leg with one of the first lateral wing and the second lateral wing, and to interlock the second leg with the other one of the first lateral wing and the second lateral wing when the first leg and the second leg are in the folded leg position and the first lateral wing and the second lateral wing are in the folded wing position.

[0011] According to one embodiment the second leg is pivotable in the first rotational direction to obtain its folded leg position.

[0012] According to one embodiment the locking arrangement comprises a first pair of locking members arranged to interlock the first leg with the first lateral wing when the first lateral wing is in the folded wing position and the first leg is in the folded leg position thereby maintaining the first leg in the folded leg position and the first lateral wing in the folded wing position, and a second pair of locking members arranged to interlock the second leg with the second lateral wing when the second lateral wing is in the folded wing position and the second leg is in the folded leg position thereby maintaining the second leg in the folded leg position and the second lateral wing in the folded wing position.

[0013] According to one embodiment the locking arrangement comprises a first pair of locking members arranged to interlock the first leg with the second lateral wing when the second lateral wing is in the folded wing position and the first leg is in the folded leg position thereby maintaining the first leg in the folded leg position and

the second lateral wing in the folded wing position, and a second pair of locking members arranged to interlock the second leg with the first lateral wing when the first lateral wing is in the folded wing position and the second leg is in the folded leg position thereby maintaining the second leg in the folded leg position and the first lateral wing in the folded wing position.

[0014] According to one embodiment each of the first pair of locking members is arranged to interlock the first leg with the frame when the first leg is in the folded leg position, and wherein each of the second pair of locking member is arranged to interlock the second leg with the frame when the second leg is in the folded leg position.

[0015] According to one embodiment each of the first pair of locking members has a fin provided with a first groove at a first side thereof for receiving a portion of a lateral wing and with a second groove at a second side opposite to the first side for receiving a portion of the frame.

[0016] According to one embodiment each locking member of the first pair of locking members forms part of a pivot joint member which pivotally couples the first leg to the frame.

[0017] According to one embodiment each of the second pair of locking members has a fin provided with a first groove at a first side thereof for receiving a portion of a lateral wing and with a second groove at a second side opposite to the first side for receiving a portion of the frame.

[0018] According to one embodiment each fin is made of a rigid material.

[0019] According to one embodiment each locking member of the second pair of locking members forms part of a pivot joint member which pivotally couples the second leg to the frame.

[0020] According to one embodiment the first leg has a first longitudinal bar and a second longitudinal bar, the first longitudinal bar and the second longitudinal bar extending from the frame, wherein the first leg comprises a first locking member of the first pair of locking members and the second longitudinal bar comprises a second locking member of the first pair of locking members.

[0021] According to one embodiment the second leg has a first longitudinal bar and a second longitudinal bar, the first longitudinal bar and the second longitudinal bar extending from the frame, wherein the second leg comprises a first locking member of the second pair of locking members and the second longitudinal bar comprises a second locking member of the second pair of locking members.

[0022] According to one embodiment the first lateral wing is pivotally coupled to the first end portion of the frame about a first pivot axis, and wherein the first leg is pivotally coupled to the first end portion of the frame about the first pivot axis.

[0023] According to one embodiment the second lateral wing is pivotally coupled to the second end portion of the frame about a second pivot axis, and wherein the

second leg is pivotally coupled to the second end portion of the frame about the second pivot axis.

[0024] According to one embodiment the width of the frame is greater than the width of the first lateral wing, and the width of the first legs is greater than the width of the first lateral wing but smaller than the width of the frame, at a location where the first pair of locking members engage the first lateral wing when the clothes drying rack is in a fully folded state and wherein the width of the frame is greater than the width of the second lateral wing, and the width of the second legs is greater than the width of the second lateral wing but smaller than the width of the frame, at a location where the second pair of locking members engage the second lateral wing when the clothes drying rack is in a fully folded state.

[0025] Generally, all terms used in the claims are to be interpreted according to their ordinary meaning in the technical field, unless explicitly defined otherwise herein. All references to "a/an/the element, apparatus, component, means, etc. are to be interpreted openly as referring to at least one instance of the element, apparatus, component, means, etc., unless explicitly stated otherwise.

BRIEF DESCRIPTION OF THE DRAWINGS

[0026] The specific embodiments of the inventive concept will now be described, by way of example, with reference to the accompanying drawings, in which:

Fig. 1a is a schematic side view of an example of a clothes drying rack in an unfolded state;

Fig. 1b is a schematic side view of the clothes drying rack in Fig. 1a partially folded;

Fig. 2a is a schematic side view of another example of a clothes drying rack in an unfolded state;

Fig. 2b is a schematic side view of the clothes drying rack in Fig. 1b partially folded;

Figs 3a-3c show perspective view of an example of a clothes drying rack in the open state, in a partially folded state, and a fully folded state;

Fig. 4 shows a perspective view of a locking member of the clothes drying rack in Figs 3a-3c;

Fig. 5 shows a top view of a portion of the clothes drying rack in Fig. 3c;

Fig. 6 shows a perspective view of a cross section of the clothes drying rack in Fig. 3c, taken at II-II; and

Figs 7a-7f show a number of variations of a clothes drying rack.

DETAILED DESCRIPTION

[0027] The inventive concept will now be described more fully hereinafter with reference to the accompanying drawings, in which exemplifying embodiments are shown. The inventive concept may, however, be embodied in many different forms and should not be construed as limited to the embodiments set forth herein; rather, these embodiments are provided by way of example so that this disclosure will be thorough and complete, and will fully convey the scope of the inventive concept to those skilled in the art. Like numbers refer to like elements throughout the description.

[0028] Figs 1a and 1b show a first example of a clothes drying rack 1 which is foldable and arranged to be manoeuvrable between an unfolded state, in which the clothes drying rack 1 may be used for hanging wet garments, and a folded state in which the clothes drying rack 1 may be set when not in use.

[0029] The clothes drying rack 1 has a frame 2, a first lateral wing 3a, a second lateral wing 3b, a first leg 5a and a second leg 5b. The first lateral wing 3a and the second lateral wing 3b form a lateral wing arrangement, and may thus together be referred to as a lateral wing arrangement. The first leg 5a and the second leg 5b form a leg arrangement, and may thus together be referred to as a leg arrangement. This applied to any example disclosed herein.

[0030] The first lateral wing 3a is pivotally coupled to the frame 2. In particular, the first lateral wing 3a is pivotally coupled to a first end portion of the frame 2. The first lateral wing 3a is pivotable between an unfolded wing position shown in Fig. 1a, and a folded wing position relative to the frame 2, towards which the first lateral wing 3a is pivoted in Fig. 1b. The first lateral wing 3a is pivotable in a first rotational direction A when pivoted towards its folded wing position.

[0031] The second lateral wing 3b is pivotally coupled to the frame 2. In particular, the second lateral wing 3b is pivotally coupled to a second end portion of the frame 2, the second end portion being opposite to the first end portion. The second lateral wing 3b is pivotable between an unfolded wing position shown in Fig. 1a, and a folded wing position relative to the frame 2, towards which the second lateral wing 3b is pivoted in Fig. 1b. The second lateral wing 3b is pivotable in a second rotational direction B when pivoted towards its folded wing position. The second rotational direction B is the direction opposite to the first rotational direction A. The first lateral wing 3a and the second lateral wing 3b are hence pivotable in opposite rotational directions towards each other.

[0032] By means of the first lateral wing 3a and the second lateral wing 3b the clothes drying rack 1 can provide additional garment hanging space than what can be provided by the frame 2.

[0033] The first leg 5a is pivotally coupled to the frame 2 and the second leg 5b is pivotally coupled to the frame 2. The first leg 5a is pivotally coupled to the first end

portion of the frame 2 and the second leg 5b is pivotally coupled to the second end portion of the frame 2.

[0034] The first leg 5a is pivotable between an unfolded leg position shown in Fig. 1a and a folded leg position relative to the frame 2, towards which the first leg 5a is pivoted in Fig. 1b. The first leg 5a is pivotable towards its folded leg position in the second rotational direction B.

[0035] The second leg 5b is pivotable between an unfolded leg position shown in Fig. 1a and a folded leg position relative to the frame 2, towards which the second leg 5b is pivoted in Fig. 1b. The second leg 5b is pivotable towards its folded leg position in the first rotational direction A.

[0036] Hence, the first leg 5a and the second leg 5b are foldable towards each other towards an underside of the frame 2, wherein the first lateral wing 3a and the second lateral wing 3b are foldable towards each other towards an upper side of the frame 2. With the orientations "underside" and "upper side" is meant relative to a horizontal support surface upon which the clothes drying rack 1 is placed when in use.

[0037] The first leg 5a and the second leg 5b hence function as frame support, arranged to support the frame 2 when the clothes drying rack 1 is in use.

[0038] The clothes drying rack 1 also comprises a locking arrangement 4 which is fixedly arranged to the clothes drying rack 1. Generally speaking, the locking arrangement 4 is arranged to interlock the lateral wing arrangement 3a, 3b with the leg arrangement 3a, 3b when the first lateral wing 3a and the second lateral wing 3b is in the folded wing position and the first leg 5a and the second leg 5b is in the folded leg position.

[0039] According to the example in Fig. 1a, the locking arrangement 4 is fixedly mounted to the first leg 5a and to the second leg 5b, but other variations are also possible. The locking arrangement may for example be fixedly arranged to the first lateral wing and to the second lateral wing, or to the frame. With "fixedly arranged" or "fixedly mounted" is meant that the locking arrangement 4 is not removable or at least not intended to be removed as the clothes drying rack is manoeuvred between its fully folded state and unfolded state; it forms a fixed part of the clothes drying rack which enables interlocking of the first leg, second leg, first lateral wing and second lateral wing when the clothes drying rack is fully folded and to allow the first leg, the second leg, the first lateral wing and the second lateral wing to be released from this interlocked state when the clothes drying rack is unfolded.

[0040] According to one variation the locking arrangement 4 is arranged to lock the first leg 5a to the first lateral wing 3a, and the second leg 5b to the second lateral wing 3b when the first leg 5a and the second leg 5b are in the folded leg position and the first lateral wing 3a and the second lateral wing 3b are in the folded wing position. According to another variation, the locking arrangement 4 is arranged to lock the first leg 5a to the second lateral wing 3b and the second leg 5b to the first lateral wing 3a

when the first leg 5a and the second leg 5b are in the folded leg position and the first lateral wing 3a and the second lateral wing 3b are in the folded wing position.

[0041] According to one variation the locking arrangement 4 comprises a first pair of locking members 7a, and a second pair of locking members 7b. The first pair of locking members 7a are arranged to interlock the first leg 5a with the first lateral wing 3a when the first leg 5a is in the folded leg position and the first lateral wing 3a is in the folded wing position. In this manner, the first lateral wing 3a maintains its folded wing position and the first leg 5a maintains its folded leg position when the clothes drying rack 1 is in its fully folded state. The first pair of locking members 7a are arranged to allow the first lateral wing 3a and the first leg 5a to be released from their folded positions when subjected to traction/rotational force larger than a threshold value. This may be the case when a user pivots the first lateral wing 3a and the first leg 5a towards their unfolded position, for example when it is desired to put the clothes drying rack 1 into use.

[0042] The second pair of locking members 7b are arranged to interlock the second leg 5b with the second lateral wing 3b when the second leg 5b is in the folded leg position and the second lateral wing 3b is in the folded wing position. In this manner, the second lateral wing 3b maintains its folded wing position and the second leg 5b maintains its folded leg position. The second pair of locking members 7b are arranged to allow the second lateral wing 3b and the second leg 5b to be released from their folded positions when subjected to traction/rotational force larger than a threshold value. This may be the case when a user pivots the second lateral wing 3b and the second leg 5b towards their unfolded position, for example when it is desired to put the clothes drying rack 1 into use.

[0043] According to one variation the first lateral wing 3a may be pivotally coupled to the first end portion of the frame 2 about a first pivot axis 9a. The first leg 5a may be pivotally coupled to the first end portion of the frame 2 about the first pivot axis 9a. Furthermore the second lateral wing 3b may be pivotally coupled to the second end portion of the frame 2 about a second pivot axis 9b. The second leg 5b may be pivotally coupled to the second end portion of the frame 2 about the second pivot axis 9b. To this end, the first lateral wing 3a and the first leg 5a may have a common pivot axis, and the second lateral wing 3b and the second leg 5b may have a common pivot axis.

[0044] The clothes drying rack 1 may have pivot joint members which pivotally couple the first leg 5a to the frame 2 and the first lateral wing 3a to the frame 2. The clothes drying rack 1 may also have pivot joint members which pivotally couple the second leg 5b to the frame 2 and the second lateral wing 3b to the frame 2. According to one variation, each one of the first pair of locking members 7a form part of a respective pivot joint member. Moreover, each one of the second pair of locking members 7b form part of a respective pivot joint member. To

this end, each pivot joint member may comprise a locking member.

[0045] Figs 2a and 2b depict another example of a clothes drying rack 1'. Clothes drying rack 1' is similar to the clothes drying rack 1 presented in Figs 1a and 1b. Clothes drying rack 1' also has a frame 2, a first lateral wing 3a and a second lateral wing 3b, with the same functionality as clothes drying rack 1. Clothes drying rack 1' however differs from clothes drying rack 1 in that it has X-shaped legs. The X-shaped legs comprise a first leg 5a' and a second leg 5b'. The second leg 5b' has a knee 5c which enables the first leg 5a' and the second leg 5b' to be pivoted relative to the frame 2, and thus be set in their folded leg position, as partially shown in Fig. 2b.

[0046] Clothes drying rack 1' also comprises a locking arrangement 4 arranged to interlock the lateral wing arrangement with the leg arrangement when the first lateral wing 3a and the second lateral wing 3b are in the folded wing position and the first leg 5a' and the second leg 5b' are in the folded leg position. The locking arrangement 4 may comprise a first pair of locking members 7a and a second pair of locking members 7b.

[0047] An example of a clothes drying rack will now be described in more detail with reference to Figs 3a to 6. This clothes drying rack has legs of the type shown in Figs 1a and 1b, but its function and structure with regards to the locking mechanisms also applied to clothes drying racks with X-shaped legs. Fig. 3a shows a perspective view of a clothes drying rack 1" having a frame 2, a first lateral wing 3a, a second lateral wing 3b, a first leg 5a and a second leg 5b. The clothes drying rack 1" furthermore comprises a locking arrangement in the form of a first pair of locking members 7a and a second pair of locking members 7b. The first lateral wing 3a and the first leg 5a are pivotable about a first pivot axis 9a. The second lateral wing 3b and the second leg 5b are pivotable about a second pivot axis 9b.

[0048] The first leg 5a has a first longitudinal bar 6b and a second longitudinal bar 6c. The first longitudinal bar 6b and the second longitudinal bar 6c have a respective proximal end pivotally coupled to the frame 2, and a distal end, each of the first longitudinal bar 6b and the second longitudinal bar 6c extending from the frame 2 forming said first leg 5a. The first longitudinal bar 6b comprises a first locking member 7c of the first pair of locking members 7a. The first leg 5a also comprises two pivot joint members 11, which enables pivoting of the first leg 5a and of the first lateral wing 3a relative to the frame 2. The first locking member 7c of the first pair of locking members 7a forms part of one of the pivot joint members 11. The second longitudinal bar 6c of the first leg 5a comprises a second locking member of the first pair of locking members 7a. The second locking member of the first pair of locking members 7a forms part of the other pivot joint member 11 of the first leg 5a.

[0049] The second leg 5b has a first longitudinal bar 6b and a second longitudinal bar 6c. The first longitudinal bar 6b and the second longitudinal bar 6c have a respec-

tive proximal end pivotally coupled to the frame 2, and a distal end, each of the first longitudinal bar 6b and the second longitudinal bar 6c extending from the frame 2 forming said second leg 5b. The first longitudinal bar 6b comprises a first locking member 7c of the second pair of locking members 7b. The second leg 5b also comprises two pivot joint members 11, which enables pivoting of the second leg 5b and of the second lateral wing 3b relative to the frame 2. The first locking member 7c of the second pair of locking members 7b forms part of one of the pivot joint members 11. The second longitudinal bar 6c of the second leg 5b comprises a second locking member of the second pair of locking members 7b. The second locking member of the second pair of locking members 7b forms part of the other pivot joint member 11 of the second leg 5b.

[0050] According to the example, the locking members 7c of the first leg 5a are arranged close to the first pivot axis 9a along the first leg 5a, not more than a distance of one fourth of the length of a corresponding longitudinal bar from the first pivot axis 9a, preferably less than one fifth of the distance. The locking members 7c of the second leg 5b are arranged close to the second pivot axis 9b along the second leg 5b, not more than a distance of one fourth of the length of a corresponding longitudinal bar from the second pivot axis 9b, preferably less than one fifth of the distance. This is due to the fact that the legs 5a, 5b may be tapering towards the foot 6a and/or the lateral wings 3a, 3b may be tapering towards their outer ends relative to their respective pivot axes, in order to enable full folding of the clothes drying rack 1", and a location of the locking members further away from the pivot axes would render it difficult to obtain the desired interlocking effect of the frame, legs and lateral wings.

[0051] Fig. 3b shows the clothes drying rack 1" in a partially folded state. In particular, the first lateral wing 3a and the second lateral wing 3b have been fully folded towards the frame 5. In Fig. 3c the clothes drying rack 1" is shown in a fully folded state. The first pair of locking members 7a interlock the first leg 5a with the first lateral wing 3a. The second pair of locking members 7b interlock the second leg 5b and the second lateral wing 3b.

[0052] Fig. 4 depicts an example of a locking member 7c, which may be any single locking member of the first pair of locking members 7a and the second pair of locking members 7b. The pivot joint member 11 forms the end portion of a longitudinal bar 6b, 6c, in this example the first longitudinal bar 6b. The pivot joint member 11 is hence attachable to the frame 2 to enable pivoting about the first pivot axis 9a.

[0053] The locking member 7c has a fin 7d which is arranged to engage with and interlock the frame 2 and the first lateral wing 3a when the first leg 5a is in the folded leg position and the first lateral wing 3a is in the folded wing position. The fins 7d may according to one variation be made of a rigid material such as a plastic or metal. The fin has a first groove 7e for receiving a portion of the first lateral wing 3a and a second groove 7f, es-

entially parallel to the first groove 7e, for receiving a portion of the frame 2 when the clothes drying rack 1" is in the fully folded state. The first groove 7e and the second groove 7f are arranged on opposite sides of the fin 7d, and are substantially parallel to the first longitudinal bar 6b. This structure applies to all of the locking members of the clothes drying rack 1".

[0054] The fins 7d of two opposite locking members 7c of the first leg 5a and the second leg 5b point towards each other when both the first leg 5a and the second leg 5b are set in their unfolded leg positions. The fins 7d of the first leg 5a hence point in the second direction B and the fins 7d of the second leg 5b point in the first direction A.

[0055] The pivot joint member 11 has a frame receiving groove 11a which extends transversely relative to the first pivot axis 9a. The frame receiving groove 11a is arranged to receive a portion of the frame 2 when the corresponding leg 5a, 5b is in the unfolded leg position.

[0056] The fins 7d of the first leg 5a are forced between the frame 2 and the first lateral wing 3a and the fins 7d of the second leg 5b are forced between the frame 2 and the second lateral wing 3b when the clothes drying rack 1" is set in its fully folded state. One of the lateral wings 3a, 3b is hence received in the first groove 7e and the frame 2 is hence received in the second groove 7f. The width of the frame 2 is greater than the width of the first lateral wing 3a, and the width of the first leg 5a is greater than the width of the first lateral wing 3a but smaller than the width of the frame 2, at a location where the first pair of locking members 7a engage the first lateral wing 3a when the clothes drying rack 1" is in a fully folded state. With "width" is here meant the width across from one end to the opposite end e.g. from one side of the frame to the opposite side in a direction parallel with the first pivot axis 9a. Similarly, the width of the frame 2 is greater than the width of the second lateral wing 3b, and the width of the second leg 5b is greater than the width of the second lateral wing 3b but smaller than the width of the frame 2, at a location where the second pair of locking members 7b engage the second lateral wing 3b when the clothes drying rack 1" is in a fully folded state. The fins 7d are hence with regards to width arranged between the lateral wings 3a, 3b and the frame 2. As a result each fin 7d is squeezed between a lateral wing 3a, 3b and the frame 2 when the clothes drying rack 1" is being set in the fully folded state.

[0057] Each fin 7d preferably has an elevated end portion 7g which is elevated relative to both the first groove 7e and the second groove 7f. Here, the fin 7d is wider than its width at the first groove 7e and second groove 7f. The width w of the fin 7d at the elevated end portion 7g is preferably greater than the distance d between the frame 2 and a lateral wing 3a, 3b, as shown in Fig. 5. One of the lateral wings 3a, 3b and the frame 2 will thereby be maintained in the first groove 7e and the second groove 7f, respectively, of a locking member 7c when the clothes drying rack 1" is in the fully folded state.

[0058] Fig. 6 shows a cross section of the fully folded

clothes drying rack 1" along lines II-II in Fig. 3c. It may be seen that a portion of the lateral wing, in this example the first lateral wing 3a, has been received by the first groove 7e of the fin 7d and that a portion of the frame 2 has been received in the second groove 7f. The elevated end portion 7g maintains the frame 2 and the lateral wing in their respective grooves 7e and 7f until they are released by force, for example when the clothes drying rack 1" is unfolded by a user.

[0059] According to one variation the fin may have a rotatable top part, corresponding to the elevated end portion of the example above, which rotatable top part is manually manoeuvred to be parallel or essentially parallel with its associated longitudinal bar when the clothes drying rack is being folded and set in its fully folded state. A user may then manually rotate the top part e.g. 90 degrees of each fin to maintain the clothes drying rack in its fully folded state and prevent it from unfolding. When the clothes drying rack is to be unfolded, the top part is again rotated such that the fins may be slid between their respective lateral wings and frame, enabling the clothes drying rack to be set in its unfolded state.

[0060] According to another variation, the fins are provided with biased protrusion members each of which may be manoeuvred between a retracted position and an extended position along the axis along which it is biased. Each protrusion member may for example be biased by means of a spring. The protrusion members are arranged to form the elevated end portion of each fin. The protrusion members are retracted when passed between the frame and a lateral wing, and due to the biasing extended when having passed through, thus providing an interlocking effect.

[0061] Thus, generally for each of the above examples of the fin, each fin comprises a blocking arrangement arranged to prevent movement of a leg 5a, 5b and a lateral wing 3a, 3b when the leg in question is in the folded leg position and the lateral wing in question is in the folded leg position.

[0062] Further examples of a clothes drying rack will be described with reference to Figs 7a-7f, with different configurations of a locking arrangement 4. Fig. 7a shows a clothes drying rack which has the locking arrangement mounted to the first lateral wing and to the second lateral wing. The locking arrangement hence comprises a first pair of locking members arranged on the first lateral wing and a second pair of locking members arranged on the second lateral wing.

[0063] Fig. 7b shows a clothes drying rack which has the locking arrangement mounted to the frame. The locking arrangement 4 may comprise a first pair of locking members for interlocking the first lateral wing and the first leg, and a second pair of locking members for interlocking the second lateral wing and the second leg.

[0064] Fig. 7c shows a clothes drying rack which has a locking arrangement fixedly mounted to the first leg and the second leg. The locking arrangement comprises a first pair of locking members arranged at the distal end

of the first leg and a second pair of locking members arranged at the distal end of the second leg. This configuration may be realised in case the longitudinal bars of the legs do not approach each other in a tapering manner in the direction from the proximal end to the distal end, but are instead essentially parallel.

[0065] Fig. 7d shows a clothes drying rack which has telescopic pivotable legs relative to the frame. The first lateral wing and the second lateral wing comprise the locking arrangement 4. The locking arrangement comprises a first locking member attached to the first lateral wing and a second locking member attached to the second lateral wing, preferably to their distal ends beams, e.g. a respective beam which is parallel to the first pivot axis and second pivot axis. The locking members are arranged to interlock a respective one of the first leg and the second leg when they have been retracted and folded towards the frame, and when the first lateral wing and the second lateral wing have been folded to their folded wing position.

[0066] Fig. 7e shows yet another example of a clothes drying rack having a locking arrangement 4. According to this example the proximal end of the second leg is slidably arranged relative to the frame and is slidable towards the first leg in order to fold the first leg and the second leg to obtain their folded leg positions. The first leg may have a rung arranged between its two longitudinal bars, wherein a locking member of the locking arrangement 4 may be arranged on the rung, and a respective locking member may be arranged on the distal end portions of the first lateral wing and the second lateral wing. When the clothes drying rack is fully folded, the locking members of the lateral wings may engage the locking member of the rung such that the clothes drying rack maintains its fully folded state.

[0067] Fig. 7f shows a clothes drying rack which has a knee portion for folding its X-legged structure. A rung may extend between the two parallel longitudinal bars of the first leg comprising the knee portion, and extending in level with the knee portion. The locking arrangement 4 may be arranged at the rung and/or at a distal end of one or both of the lateral wings.

[0068] In some of the examples above, the structure of the locking member should be modified in comparison to the locking members 7c described in more detail here-above.

[0069] The inventive concept has mainly been described above with reference to a few examples. However, as is readily appreciated by a person skilled in the art, other embodiments than the ones disclosed above are equally possible within the scope of the inventive concept, as defined by the appended claims.

Claims

1. A clothes drying rack (1; 1'; 1'') comprising:

a frame (2),
 a first lateral wing (3a) pivotally coupled to a first end portion of the frame (2),
 a second lateral wing (3b) pivotally coupled to a second end portion of the frame (2),
 each of the first lateral wing (3a) and the second lateral wing (3b) being pivotable between a folded wing position relative to the frame (2), the first lateral wing (3a) and the second lateral wing (3b) being foldable towards each other to obtain their folded wing position, and an unfolded wing position relative to the frame (2),
 wherein the first lateral wing (3a) is pivotable in a first rotational direction (A) to obtain its folded wing position and the second lateral wing (3b) is pivotable in a second rotational direction (B), opposite to the first rotational direction (A), to obtain its folded wing position,
 a first leg (5a) pivotally coupled to the first end portion of the frame (2), wherein the first leg (5a) is pivotable between a folded leg position and an unfolded leg position relative to the frame (2), wherein the first leg (5a) is pivotable in the second rotational direction (B) to obtain its folded leg position,
 a second leg (5b) pivotally coupled to the second end portion of the frame (2), wherein the second leg (5b) is pivotable between a folded leg position and an unfolded leg position relative to the frame (2), and
 a locking arrangement (4) fixedly mounted to the clothes drying rack (1; 1'; 1''), wherein the first lateral wing (3a) and the second lateral wing (3b) form a lateral wing arrangement (3a, 3b) and the first leg (5a) and the second leg (5b) form a leg arrangement (5a, 5b), and wherein the locking arrangement (4) is arranged to interlock the lateral wing arrangement (3a, 3b) with the leg arrangement (5a, 5b) when the first leg (5a) and the second leg (5b) is in the folded leg position and the first lateral wing (3a) and the second lateral wing (3b) is in the folded wing position, **characterized in that** the locking arrangement (4) comprises a first pair of locking members (7a) arranged to interlock the first leg (5a) with the first lateral wing (3a) when the first lateral wing (3a) is in the folded wing position and the first leg (5a) is in the folded leg position thereby maintaining the first leg (5a) in the folded leg position and the first lateral wing (3a) in the folded wing position, and a second pair of locking members (7b) arranged to interlock the second leg (5b) with the second lateral wing (3b) when the second lateral wing (3b) is in the folded wing position and the second leg (5b) is in the folded leg position thereby maintaining the second leg (5b) in the folded leg position and the second lateral wing (3b) in the folded wing po-

sition,

each of the first pair of locking members (7a) is arranged to interlock the first leg (5a) with the frame (2) when the first leg (5a) is in the folded leg position, and wherein each of the second pair of locking member (7b) is arranged to interlock the second leg (5b) with the frame (2) when the second leg (5b) is in the folded leg position, and each of the first pair of locking members (7a) has a fin (7d) provided with a first groove (7e) at a first side thereof for receiving a portion of a lateral wing (3a, 3b) and with a second groove (7f) at a second side opposite to the first side for receiving a portion of the frame (2).

2. The clothes drying rack as claimed in claim 1, wherein the locking arrangement (4) is arranged to interlock the first leg with one of the first lateral wing and the second lateral wing, and to interlock the second leg with the other one of the first lateral wing and the second lateral wing when the first leg and the second leg are in the folded leg position and the first lateral wing and the second lateral wing are in the folded wing position.
3. The clothes drying rack (1; 1'; 1'') as claimed in claim 1 or 2, wherein the second leg (5b) is pivotable in the first rotational direction (A) to obtain its folded leg position
4. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein each locking member (7c) of the first pair of locking members (7a) forms part of a pivot joint member (11) which pivotally couples the first leg (5a) to the frame (2).
5. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein each of the second pair of locking members (7b) has a fin (7d) provided with a first groove (7e) at a first side thereof for receiving a portion of a lateral wing (3a, 3b) and with a second groove (7f) at a second side opposite to the first side for receiving a portion of the frame (2).
6. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein each fin (7d) is made of a rigid material.
7. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein each locking member (7c) of the second pair of locking members (7b) forms part of a pivot joint member (11) which pivotally couples the second leg (5b) to the frame (2).
8. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein the first leg (5a) has a first longitudinal bar (6b) and a second longitudinal bar (6c), the first longitudinal bar (6b) and the second

longitudinal bar (6c) extending from the frame (2), wherein the first leg (5a) comprises a first locking member (7c) of the first pair of locking members (7a) and the second longitudinal bar (6c) comprises a second locking member (7c) of the first pair of locking members (7a).

9. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein the second leg (5b) has a first longitudinal bar (6b) and a second longitudinal bar (6c), the first longitudinal bar (6b) and the second longitudinal bar (6c) extending from the frame (2), wherein the second leg (5b) comprises a first locking member (7d) of the second pair of locking members (7c) and the second longitudinal bar (6c) comprises a second locking member (7c) of the second pair of locking members (7b).
10. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein the first lateral wing (3a) is pivotally coupled to the first end portion of the frame (2) about a first pivot axis (9a), and wherein the first leg (5a) is pivotally coupled to the first end portion of the frame (2) about the first pivot axis (9a).
11. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein the second lateral wing (3b) is pivotally coupled to the second end portion of the frame (2) about a second pivot axis (9b), and wherein the second leg (5b) is pivotally coupled to the second end portion of the frame (2) about the second pivot axis (9a).
12. The clothes drying rack (1; 1'; 1'') as claimed in any of the preceding claims, wherein the width of the frame (2) is greater than the width of the first lateral wing (3a), and the width of the first leg (5a) is greater than the width of the first lateral wing (3a) but smaller than the width of the frame (2), at a location where the first pair of locking members (7a) engage the first lateral wing (3a) when the clothes drying rack (1; 1'; 1'') is in a fully folded state, and wherein the width of the frame (2) is greater than the width of the second lateral wing (3b), and the width of the second leg (5b) is greater than the width of the second lateral wing (3b) but smaller than the width of the frame (2), at a location where the second pair of locking members (7b) engage the second lateral wing (3b) when the clothes drying rack (1; 1'; 1'') is in a fully folded state.

Patentansprüche

1. Kleidungsstrocknungsgestell (1; 1'; 1''), umfassend:

einen Rahmen (2),
einen ersten Seitenflügel (3a), der schwenkbar mit einem ersten Endabschnitt des Rahmens (2)

verbunden ist,
einen zweiten Seitenflügel (3b), der schwenkbar mit einem zweiten Endabschnitt des Rahmens (2) verbunden ist,

wobei sowohl der erste Seitenflügel (3a) als auch der zweite Seitenflügel (3b) zwischen einer zusammengeklappten Flügelstellung relativ zum Rahmen (2) schwenkbar ist, wobei der erste Seitenflügel (3a) und der zweite Seitenflügel (3b) zueinander hin faltbar sind, um ihre zusammengeklappte Flügelstellung und eine aufgeklappte Flügelstellung relativ zum Rahmen (2) einzunehmen,

wobei der erste Seitenflügel (3a) in eine erste Drehrichtung (A) schwenkbar ist, um seine zusammengeklappte Flügelposition einzunehmen, und der zweite Seitenflügel (3b) in eine zweite Drehrichtung (B) entgegengesetzt zur ersten Drehrichtung (A) schwenkbar ist, um seine gefaltete Flügelposition einzunehmen, ein erstes Bein (5a), das schwenkbar mit dem ersten Endabschnitt des Rahmens (2) verbunden ist, wobei das erste Bein (5a) zwischen einer zusammengeklappten Beinstellung und einer aufgeklappten Beinstellung relativ zum Rahmen (2) schwenkbar ist, wobei das erste Bein (5a) in die zweite Drehrichtung (B) schwenkbar ist, um seine zusammengeklappte Beinstellung einzunehmen,

ein zweites Bein (5b), das mit dem zweiten Endabschnitt des Rahmens (2) verbunden ist, wobei das zweite Bein (5b) zwischen einer zusammengeklappten Beinstellung und einer ausgeklappten Beinstellung relativ zum Rahmen (2) schwenkbar ist, und

eine Verriegelungsanordnung (4), die fest an dem Kleidungsstrocknungsgestell (1; 1'; 1'') befestigt ist,

wobei der erste Seitenflügel (3a) und der zweite Seitenflügel (3b) eine Seitenflügelanordnung (3a, 3b) bilden und das erste Bein (5a) und das zweite Bein (5b) eine Beinanordnung (5a, 5b) bilden, und wobei die Verriegelungsanordnung (4) angeordnet ist, die Seitenflügelanordnung (3a, 3b) mit der Beinanordnung (5a, 5b) in Eingriff zu bringen, wenn sich das erste Bein (5a) und das zweite Bein (5b) in der zusammengeklappten Beinstellung und der erste Seitenflügel (3a) und der zweite Seitenflügel (3b) in der zusammengeklappten Flügelstellung befinden,

dadurch gekennzeichnet, dass

die Verriegelungsanordnung (4) ein erstes Paar von Verriegelungselementen (7a), die angeordnet sind, das erste Bein (5a) mit dem ersten Seitenflügel (3a) in Eingriff zu bringen, wenn sich der erste Seitenflügel (3a) in der zusammengeklappten Flügelstellung und das erste Bein (5a) in der zusammengeklappten Beinstellung befinden,

- det, wodurch das erste Bein (5a) in der zusammengeklappten Beinstellung und der erste Seitenflügel (3a) in der zusammengeklappten Flügelstellung gehalten werden, und ein zweites Paar von Verriegelungselementen (7b), die angeordnet sind, das zweite Bein (5b) mit dem zweiten Seitenflügel (3b) in Eingriff zu bringen, wenn sich der zweite Seitenflügel (3b) in der zusammengeklappten Flügelstellung und das zweite Bein (5b) in der zusammengeklappten Beinstellung befindet, wobei das zweite Bein (5b) in der zusammengeklappten Beinstellung und der zweite Seitenflügel (3b) in der zusammengeklappten Flügelstellung gehalten werden, umfasst, wobei jedes der ersten beiden Verriegelungselemente (7a) angeordnet ist, das erste Bein (5a) mit dem Rahmen (2) in Eingriff zu bringen, wenn sich das erste Bein (5a) in der zusammengeklappten Beinstellung befindet, und wobei jedes der zweiten beiden Verriegelungselemente (7b) angeordnet ist, das zweite Bein (5b) mit dem Rahmen (2) in Eingriff zu bringen, wenn sich das zweite Bein (5b) in der zusammengeklappten Beinstellung befindet, und wobei jedes der ersten beiden Verriegelungselemente (7a) einen Grat (7d) aufweist, der mit einer ersten Nut (7e) an einer ersten Seite davon zum Aufnehmen eines Abschnitts eines Seitenflügels (3a, 3b) und mit einer zweiten Nut (7f) an einer zweiten Seite gegenüber der ersten Seite bereitgestellt ist, um einen Abschnitt des Rahmens (2) aufzunehmen.
2. Kleidungsrocknungsgestell nach Anspruch 1, wobei die Verriegelungsanordnung (4) angeordnet ist, das erste Bein mit einem von dem ersten Seitenflügel und dem zweiten Seitenflügel in Eingriff zu bringen, und das zweite Bein mit einem anderen von dem ersten Seitenflügel und dem zweiten Seitenflügel in Eingriff zu bringen, wenn sich das erste Bein und das zweite Bein in der zusammengeklappten Beinstellung und der erste Seitenflügel und der zweite Seitenflügel in der zusammengeklappten Flügelstellung befinden.
 3. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der Ansprüche 1 oder 2, wobei das zweite Bein (5b) in die erste Richtung (A) schwenkbar ist, um seine zusammengeklappte Beinstellung einzunehmen.
 4. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei jedes Verriegelungselement (7c) des ersten Paares von Verriegelungselementen (7a) Teil eines Drehgelenkelements (11) ist, welches das erste Bein (5a) schwenkbar mit dem Rahmen (2) verbindet.
 5. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei jedes der zweiten beiden Verriegelungselemente (7b) einen Grat (7d) aufweist, der zum Aufnehmen eines Abschnitts eines Seitenflügels (3a, 3b) mit einer ersten Nut (7e) an einer ersten Seite davon bereitgestellt ist und mit einer zweiten Nut (7f) an einer zweiten Seite gegenüber der ersten Seite bereitgestellt ist, um einen Abschnitt des Rahmens (2) aufzunehmen.
 6. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei jeder Grat (7d) aus einem starren Material hergestellt ist.
 7. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei jedes Verriegelungselement (7c) des zweiten Paares von Verriegelungselementen (7b) Teil eines Drehgelenkelements (11) ist, welches das zweite Bein (5b) schwenkbar mit dem Rahmen (2) verbindet.
 8. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei das erste Bein (5a) eine erste Längsstange (6b) und eine zweite Längsstange (6c) aufweist, wobei sich die erste Längsstange (6b) und die zweite Längsstange (6c) vom Rahmen (2) erstrecken, wobei das erste Bein (5a) ein erstes Verriegelungselement (7c) des ersten Paares von Verriegelungselementen (7a) und die zweite Längsstange (6c) ein zweites Verriegelungselement (7c) des ersten Paares von Verriegelungselementen (7a) umfasst.
 9. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei das zweite Bein (5b) eine erste Längsstange (6b) und eine zweite Längsstange (6c) aufweist, wobei sich die erste Längsstange (6b) und die zweite Längsstange (6c) vom Rahmen (2) erstrecken, wobei das zweite Bein (5b) ein erstes Verriegelungselement (7d) des zweiten Paares von Verriegelungselementen (7c) und die zweite Längsstange (6c) ein zweites Verriegelungselement (7c) des zweiten Paares von Verriegelungselementen (7b) umfasst.
 10. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei der erste Seitenflügel (3a) über eine erste Schwenkachse (9a) schwenkbar mit dem ersten Endabschnitt des Rahmens (2) verbunden ist, und wobei das erste Bein (5a) über die erste Schwenkachse (9a) schwenkbar mit dem ersten Endabschnitt des Rahmens (2) verbunden ist.
 11. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei der zweite Seitenflügel (3b) über eine zweite Schwenkachse (9b) schwenkbar mit dem zweiten Endabschnitt des

Rahmens (2) verbunden ist, und wobei das zweite Bein (5b) über die zweite Schwenkachse (9a) schwenkbar mit dem zweiten Endabschnitt des Rahmens (2) verbunden ist.

12. Kleidungsrocknungsgestell (1; 1'; 1'') nach einem der vorhergehenden Ansprüche, wobei die Breite des Rahmens (2) größer als die Breite des ersten Seitenflügels (3a) ist, und die Breite des ersten Beines (5a) größer als die Breite des ersten Seitenflügels (3a) aber kleiner als die Breite des Rahmens (2) an einer Stelle, an der das erste Paar von Verriegelungselementen (7a) mit dem ersten Seitenflügel (3a) in Eingriff steht, wenn sich das Kleidungsrocknungsgestell (1; 1'; 1'') in einem vollständig gefalteten Zustand befindet, ist, und wobei die Breite des Rahmens (2) größer als die Breite des zweiten Seitenflügels (3b) und die Breite des zweiten Beines (5b) größer als die Breite des zweiten Seitenflügels (3b) aber kleiner als die Breite des Rahmens (2) an einer Stelle, an der das zweite Paar von Verriegelungselementen (7b) mit dem zweiten Seitenflügel (3b) in Eingriff steht, wenn sich das Kleidungsrocknungsgestell (1; 1'; 1'') in einem vollständig gefalteten Zustand befindet, ist.

Revendications

1. Étendoir de vêtements (1 ; 1' ; 1'') comprenant :
- un châssis (2),
 - une première aile latérale (3a) couplée en pivotement avec une première partie d'extrémité du châssis (2),
 - une seconde aile latérale (3b) couplée en pivotement avec une seconde partie d'extrémité du châssis (2),
 - chacune de la première aile latérale (3a) et de la seconde aile latérale (3b) pouvant pivoter entre une position d'aile pliée par rapport au châssis (2), la première aile latérale (3a) et la seconde aile latérale (3b) pouvant être pliées en direction l'une de l'autre pour obtenir leur position d'aile pliée, et une position d'aile dépliée par rapport au châssis (2),
 - dans lequel la première aile latérale (3a) peut pivoter dans une première direction de rotation (A) pour obtenir sa position d'aile pliée et la seconde aile latérale (3b) peut pivoter dans une seconde direction de rotation (B), opposée à la première direction de rotation (A), pour obtenir sa position d'aile pliée,
 - un premier pied (5a) couplé en pivotement avec la première partie d'extrémité du châssis (2), dans lequel le premier pied (5a) peut pivoter entre une position de pied plié et une position de pied déplié par rapport au châssis (2), dans le-

quel le premier pied (5a) peut pivoter dans la seconde direction de rotation (B) pour obtenir sa position de pied plié,

un second pied (5b) couplé en pivotement avec la seconde partie d'extrémité du châssis (2), dans lequel le second pied (5b) peut pivoter entre une position de pied plié et une position de pied déplié par rapport au châssis (2), et

un agencement de verrouillage (4) monté de façon fixe sur l'étendoir de vêtements (1 ; 1' ; 1''), dans lequel la première aile latérale (3a) et la seconde aile latérale (3b) forment un agencement d'ailes latérales (3a, 3b) et le premier pied (5a) et le second pied (5b) forment un agencement de pieds (5a, 5b) et dans lequel l'agencement de verrouillage (4) est agencé pour inter-verrouiller l'agencement d'ailes latérales (3a, 3b) avec l'agencement de pieds (5a, 5b) lorsque le premier pied (5a) et le second pied (5b) sont dans la position de pied plié et la première aile latérale (3a) et la seconde aile latérale (3b) sont dans la position d'aile pliée,

caractérisé en ce que

l'agencement de verrouillage (4) comprend une première paire de membres de verrouillage (7a) agencés pour inter-verrouiller le premier pied (5a) avec la première aile latérale (3a) lorsque la première aile latérale (3a) est dans la position d'aile pliée et le premier pied (5a) est dans la position de pied plié maintenant ainsi le premier pied (5a) dans la position de pied plié et la première aile latérale (3a) dans la position d'aile pliée, et une seconde paire de membres de verrouillage (7b) agencés pour inter-verrouiller le second pied (5b) avec la seconde aile latérale (3b) lorsque la seconde aile latérale (3b) est dans la position d'aile pliée et le second pied (5b) est dans la position de pied plié maintenant ainsi le second pied (5b) dans la position de pied plié et la seconde aile latérale (3b) dans la position d'aile pliée,

chacun de la première paire de membres de verrouillage (7a) est agencé pour inter-verrouiller le premier pied (5a) avec le châssis (2) lorsque le premier pied (5a) est dans la position de pied plié, et dans lequel chacun de la seconde paire de membres de verrouillage (7b) est agencé pour inter-verrouiller le second pied (5b) avec le châssis (2) lorsque le second pied (5b) est dans la position de pied plié,

et chacun de la première paire de membres de verrouillage (7a) a une ailette (7d) dotée d'une première rainure (7e) sur un premier côté de celle-ci pour recevoir une partie d'une aile latérale (3a, 3b) et d'une seconde rainure (7f) sur un second côté opposé au premier côté pour recevoir une partie du châssis (2).

2. Étendoir de vêtements selon la revendication 1, dans lequel l'agencement de verrouillage (4) est agencé pour inter-verrouiller le premier pied avec l'une de la première aile latérale et de la seconde aile latérale, et pour inter-verrouiller le second pied avec l'autre de la première aile latérale et de la seconde aile latérale lorsque le premier pied et le second pied sont dans la position de pied plié et que la première aile latérale et la seconde aile latérale sont dans la position d'aile pliée. 5
3. Étendoir de vêtements (1 ; 1' ; 1'') selon la revendication 1 ou 2, dans lequel le second pied (5b) peut pivoter dans la première direction de rotation (A) pour obtenir sa position de pied plié. 10
4. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel chaque membre de verrouillage (7c) de la première paire de membres de verrouillage (7a) fait partie d'un membre de jointure à pivot (11) qui couple le premier pied (5a) en pivotement avec le châssis (2). 20
5. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel chacun de la seconde paire de membres de verrouillage (7b) a une ailette (7d) dotée d'une première rainure (7e) sur un premier côté de celle-ci pour recevoir une partie d'une aile latérale (3a, 3b) et dotée d'une seconde rainure (7f) sur un second côté opposé au premier côté pour recevoir une partie du châssis (2). 25 30
6. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel chaque ailette (7d) est faite d'un matériau rigide. 35
7. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel chaque membre de verrouillage (7c) de la seconde paire de membres de verrouillage (7b) fait partie d'un membre de jointure à pivot (11) qui couple le second pied (5b) en pivotement avec le châssis (2). 40 45
8. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel le premier pied (5a) présente une première barre longitudinale (6b) et une seconde barre longitudinale (6c), la première barre longitudinale (6b) et la seconde barre longitudinale (6c) s'étendant à partir du châssis (2), dans lequel le premier pied (5a) comprend un premier membre de verrouillage (7c) de la première paire de membres de verrouillage (7a) et la seconde barre longitudinale (6c) comprend un second membre de verrouillage (7c) de la première 50 55
9. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel le second pied (5b) présente une première barre longitudinale (6b) et une seconde barre longitudinale (6c), la première barre longitudinale (6b) et la seconde barre longitudinale (6c) s'étendant à partir du châssis (2), dans lequel le second pied (5b) comprend un premier membre de verrouillage (7d) de la seconde paire de membres de verrouillage (7c) et la seconde barre longitudinale (6c) comprend un second membre de verrouillage (7c) de la seconde 5
10. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel la première aile latérale (3a) est couplée en pivotement avec la première partie d'extrémité du châssis (2) sur un premier axe de pivot (9a), et dans lequel le premier pied (5a) est couplé en pivotement avec la première partie d'extrémité du châssis (2) sur le premier axe de pivot (9a). 10
11. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel la seconde aile latérale (3b) est couplée en pivotement avec la seconde partie d'extrémité du châssis (2) sur un second axe de pivot (9b), et dans lequel le second pied (5b) est couplé en pivotement avec la seconde partie d'extrémité du châssis (2) sur le second axe de pivot (9a). 25 30
12. Étendoir de vêtements (1 ; 1' ; 1'') selon l'une quelconque des revendications précédentes, dans lequel la largeur du châssis (2) est supérieure à la largeur de la première aile latérale (3a) et la largeur du premier pied (5a) est supérieure à la largeur de la première aile latérale (3a) mais inférieure à la largeur du châssis (2), à un emplacement où la première paire de membres de verrouillage (7a) engage la première aile latérale (3a) lorsque l'étendoir de vêtements (1 ; 1' ; 1'') est dans un état complètement plié, et dans lequel la largeur du châssis (2) est supérieure à la largeur de la seconde aile latérale (3b), et la largeur du second pied (5b) est supérieure à la largeur de la seconde aile latérale (3b) mais inférieure à la largeur du châssis (2), à un emplacement où la seconde paire de membres de verrouillage (7b) engage la seconde aile latérale (3b) lorsque l'étendoir de vêtements (1 ; 1' ; 1'') est dans un état complètement plié. 40 45 50 55

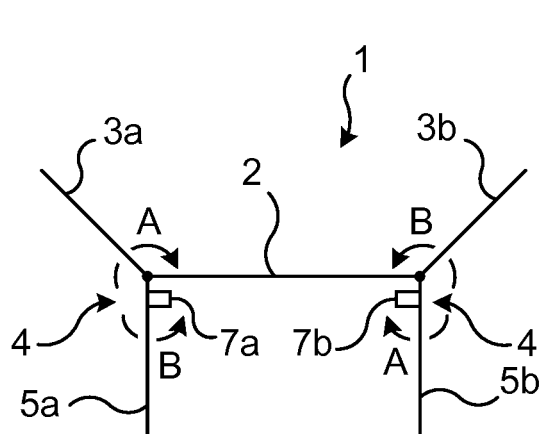


Fig. 1a

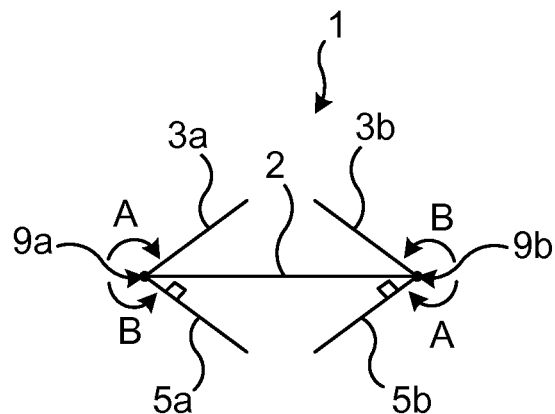


Fig. 1b

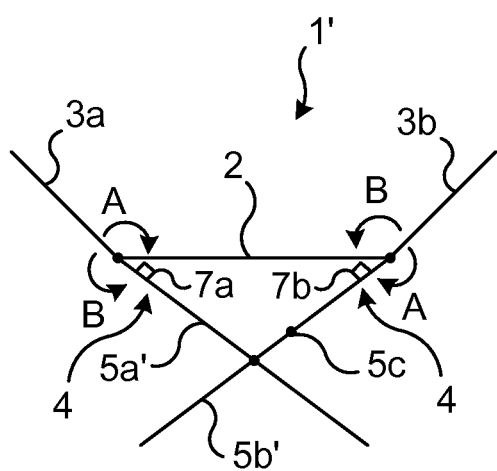


Fig. 2a

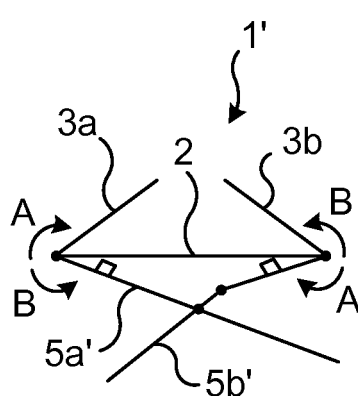


Fig. 2b

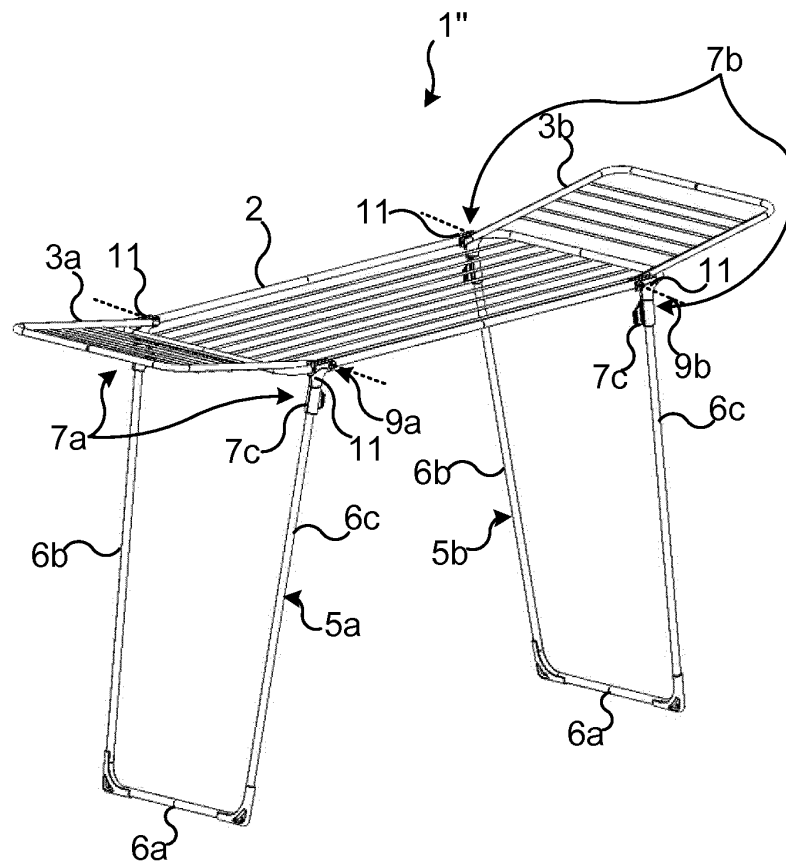


Fig. 3a

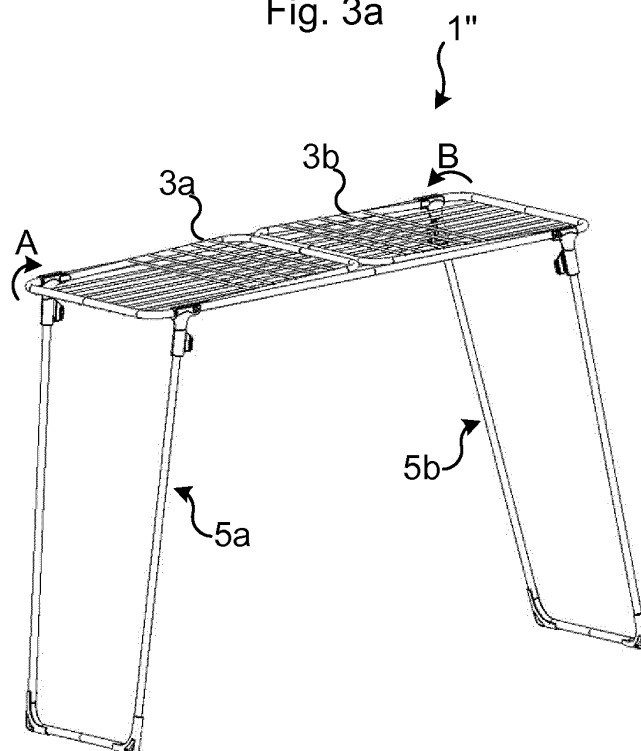


Fig. 3b

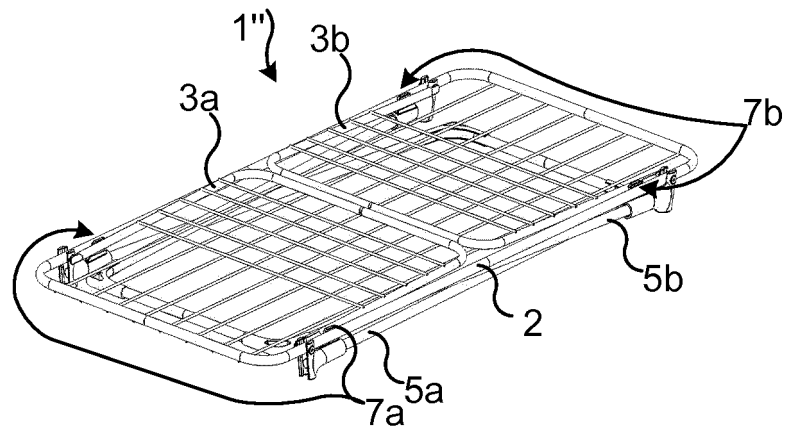


Fig. 3c

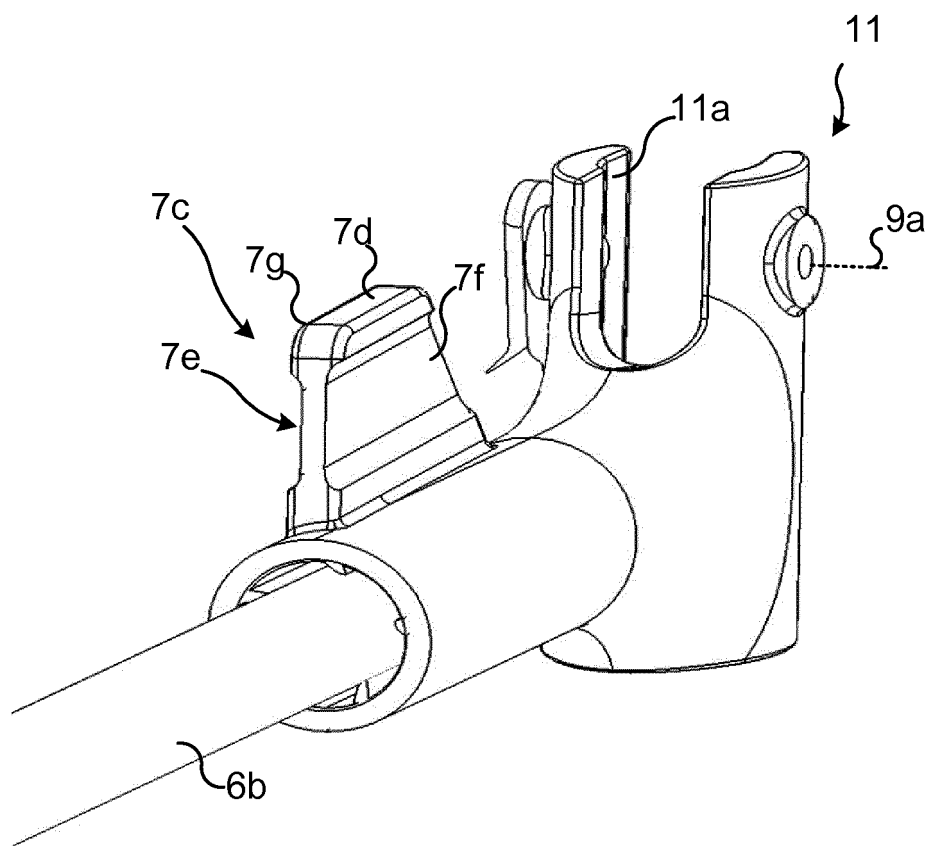


Fig. 4

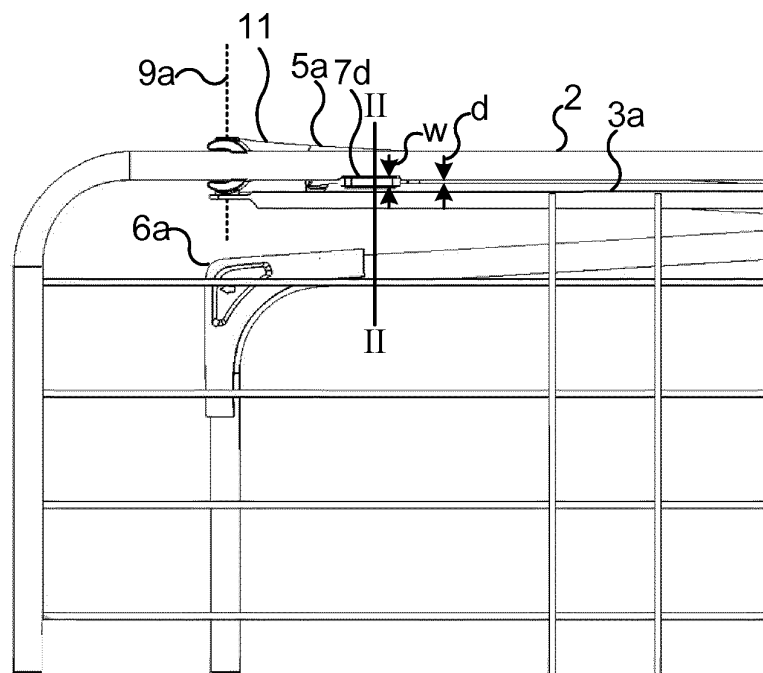


Fig. 5

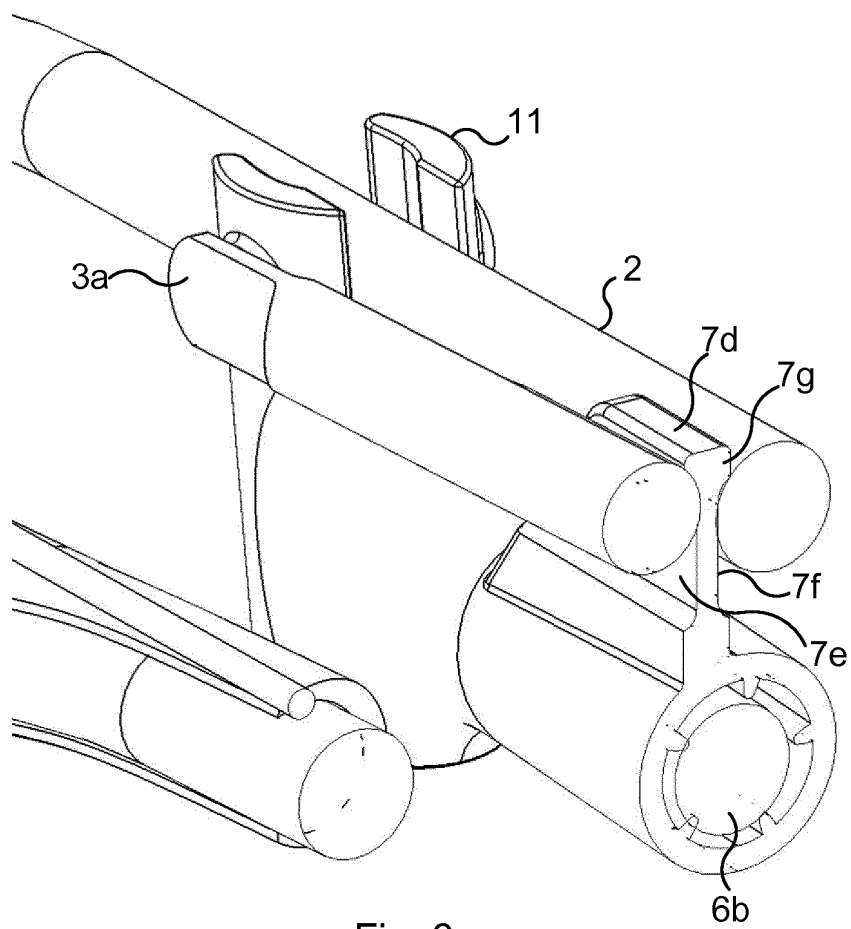


Fig. 6

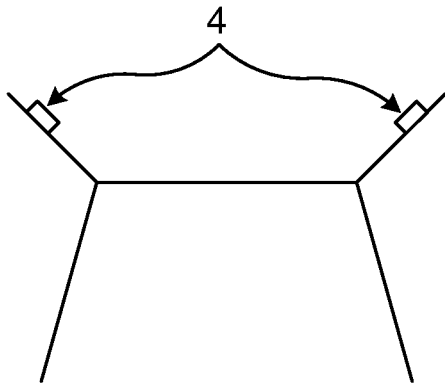


Fig. 7a

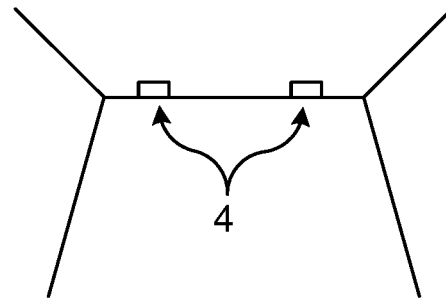


Fig. 7b

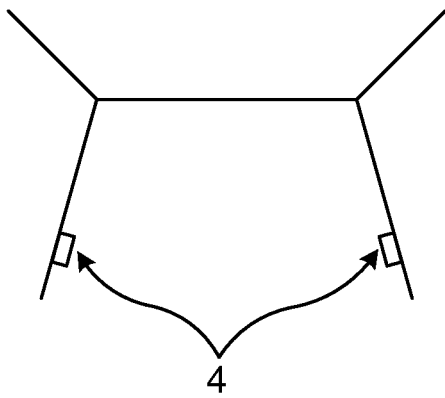


Fig. 7c

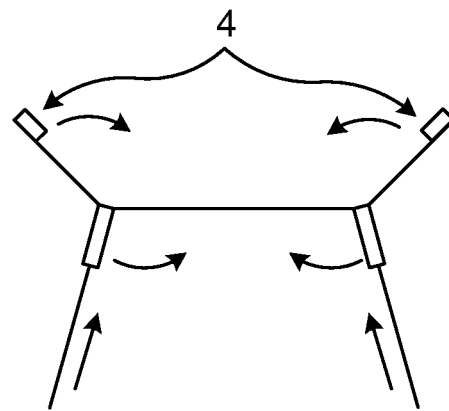


Fig. 7d

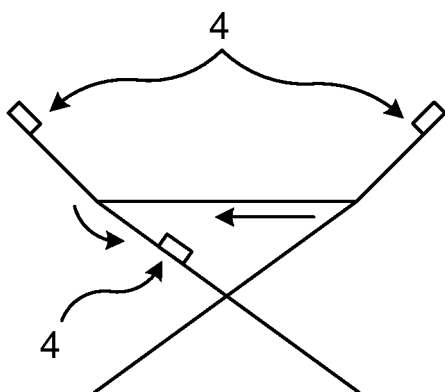


Fig. 7e

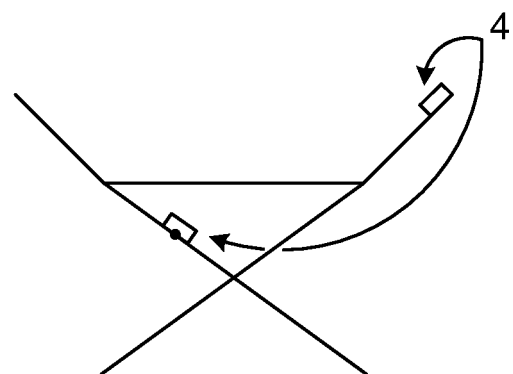


Fig. 7f

REFERENCES CITED IN THE DESCRIPTION

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