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(54) **Frame pad construction for trampolines**

Rahmenpolster für Trampoline

Construction de cadre matelassé pour trampolines

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Description

[0001] The present invention relates to a safety cover of the kind described in the introductory part of claim 1.

[0002] The known safety covers are constructed as frame pads covering the top side of the frame and springs. They are embodied to fit the frame so that they can be held fast to it by means of cords, straps or rubber bands, which are fastened to the under side of frame pads and the frame. The edge pads are therefore specially made to fit the frame profile, and they are difficult to mount. When the trampoline has been used for some time the frame pads will work loose from the frame, which will cause increased wear and tear and insufficient cover of the frame.

[0003] From EP-A-0 058 579 a safety cover of a Trampoline frame and springs is known, which consist of a special produced foam core of a complex shape, which is difficult to produce and mount, and it is on the over- and underside covered with an upholstery. The foam core covers and abut the frame. As the foam has very low compression-, tensile- and bending strength it will be deformed soon, whereby the safety cover will be displaced.

[0004] It is a purpose of the present invention to describe a safety cover, which does not have the drawbacks of the known safety covers.

[0005] This is achieved by embodying the safety cover and the trampoline frame as described in the characterising part of claim 1.

[0006] This will ensure that the frame pads are always held in position over the trampoline frame and springs, and this offers protection and has a chock absorbing effect in case the trampoline jumper lands outside the trampoline's jumping area.

[0007] Claim 2 relates to a preferred method of fastening the external and internal side of the frame pad for a trampoline frame.

[0008] This will ensure that the frame pads are simple of construction, that they are easy to mount and dismount, and safe to use.

[0009] Claim 3 refers to a preferred external position of the safety cover on the frame.

[0010] The invention is explained in detail below with reference to the drawing, in which

- fig. 1 is a perspective view of a corner section of a trampoline with frame pads according the invention,
- fig. 2 is a schematic view after the line A-A in fig. 1,
- fig. 3 shows a section of a trampoline with frame pads of known construction,
- fig. 4 is a larger-scale view corresponding to the one shown in fig. 2, and
- fig. 5 shows a section of a trampoline with frame and springs and a frame pad according to the invention.

[0011] A trampoline consists of a frame 1, which is

mounted on legs 2. A trampoline cover 3 is fixed to the internal side of the frame 1 by means of springs 4. The trampoline frame 1 can, as shown, be constructed of square bar iron. On top of the frame 1 is mounted a frame pad 5, which covers the upper surface of the frame 1 and the springs 4.

[0012] As shown in fig. 3 the frame pad has up to now been fixed to the frame by having the underside of the frame pad fixed to the frame 1 by means of cords, straps or rubber bands 6. This known kind of fixation involves the risk that the frame pads 5 will be pulled away from the trampoline frame by a "standing- on" effect of the frame pads over the springs. This will cause heavy wear and tear and a risk of lack of covering of the trampoline frame.

[0013] As shown, a frame pad 5 consists of an internal non-absorbent foam core 7 covered by an upholstery 8.

[0014] According to the invention this upholstery 8 is attached at the external side 9 of the pad 5 to the trampoline frame 1, and at the internal side of the pad to an elastic cord 11, which is held in tension between and attached to two opposing parts of the frame 1.

[0015] As shown in fig. 4 the upholstery 8 is at the lower external edge 12 extended into a first strip of cloth 13, which at the end is embodied with a first casing 14. To the external side of the frame 1 is welded pipe lengths 16, for example along the lowest edge of the frame 1 with a defined mutual distance. Through these pipe lengths 16 can be inserted a stick 17, which can be made of glass fibre, and which can be inserted in the first casing 14, by which the The first cloth strip 13 and thereby the frame pad 5 is held in position on the frame 1. The first cloth strip 13 can have a length such as it can secure the frame pad 5, so that the side 9 is flush with the external side 15 of the frame 1.

[0016] The internal lowest edge 18 of the frame pad 5 is extended into a second strip of cloth 19, which at the end is embodied with a second casing 20 through which the elastic cord 11 is carried.

Claims

1. Trampoline comprising a safety cover, a frame (1) and springs (4) said cover being constructed of frame pads (5), which are placed over the frame in the full length of the frame and which cover both the frame (1) and the trampoline springs (4) and which internally consist of a non-absorbent foam core (7) surrounded by an upholstery (8),
characterised by the fact that the frame pads (5) at the external side (9) are attached to the trampoline frame (1), and at the internal side (10) are fastened to an elastic cord (11) tightened between and attached to two opposing parts of the frame (1).

2. Trampoline according to claim 1,

characterised by the fact that

the upholstery (8) at the lowest external edge (12) of the frame pad (5) is extended into a first cloth strip (13), which at its end is embodied with a first casing (14), that to the external side (15) of the frame (1) at the bottom with a defined mutual distance are welded pipe lengths (16), through which can be inserted a stick (17), which can be inserted in the first casing (14), and that the internal lower edge (18) of the pad (5) is extended into a second cloth strip (19), which at the end is embodied with a second casing (20) through which the elastic cord (11) is carried.

3. Trampoline according to claim 2,

characterised by the fact that

the first cloth strips (13) are of such a length that when the stick (17) is carried into the first casing (14) they can hold the outer side (9) of the pad (5), so that it is flush with the external side (15) of the frame (1).

Patentansprüche

1. Trampolin bestehend aus einer Sicherheits-Randabdeckung, einem Rahmen (1) und Federn (4), wobei die genannte Randabdeckung aus Schutzpolstern (5) aufgebaut ist, die in voller Länge auf dem Rahmen gelegt sind und sowohl den Rahmen (1) als auch die Trampolinfedern (4) abdecken und die im Inneren aus einem nichtabsorbierenden Schaumkern (7) bestehen und mit einer Außenhaut (8) versehen sind,

dadurch gekennzeichnet,

dass die Schutzpolster (5) auf der Außenseite (9) am Trampolinrahmen (1) befestigt sind und auf der Innenseite (10) an einem elastischen Band (11) befestigt sind, der zwischen zwei gegenüberliegenden Teilen des Rahmens (1) gespannt und daran befestigt ist.

2. Trampolin nach Anspruch 1,

dadurch gekennzeichnet,

dass die Außenhaut (8) am unteren äußeren Rand (12) der Schutzpolster (5) durch einen ersten Stoffstreifen (13) verlängert wird, der am Ende mit einem ersten Laufgang (14) gestaltet ist, dass die Außenseite (15) des Rahmens (1) unten in einem bestimmten gegenseitigen Abstand mit Rohrstücken (16) verschweißt ist, durch welche eine durch den ersten Laufgang (14) einschiebbare Stange (17) geführt werden kann, und dass der innere Rand (18) der Schutzpolster (5) unten durch einen zweiten Stoffstreifen (19) verlängert wird, der am Ende mit einem zweiten Laufgang (20) gestaltet ist, durch die das elastische Band (11) geführt wird.

3. Trampolin nach Anspruch 2,

dadurch gekennzeichnet,

dass die ersten Stoffstreifen (13) von einer solchen Länge sind, dass sie, wenn die Stange (17) in den ersten Laufgang (14) eingeschoben ist, die Außenseite (9) der Schutzpolster (5) festhalten können, so dass sie mit der Außenseite (15) des Rahmens (1) fluchten.

Revendications

1. Trampoline comprenant une couverture de sécurité, un cadre (1) et des ressorts (4), ladite couverture se composant de coussins (5) qui sont placés sur le cadre sur toute la longueur du cadre, qui couvrent le cadre (1) aussi bien que les ressorts (4), et dont l'intérieur se compose d'un noyau mousse non absorbant (7) entouré d'une housse (8),

caractérisé en ce que

les coussins (5) sont attachés, sur le côté extérieur (9), au cadre (1) et fixés, sur le côté intérieur (10), à une corde élastique (11) tendue entre les deux parties opposées du cadre (1) et y attachée.

2. Trampoline selon la revendication 1,

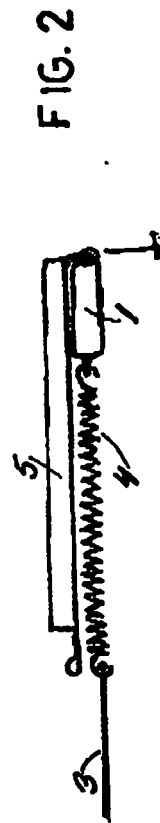
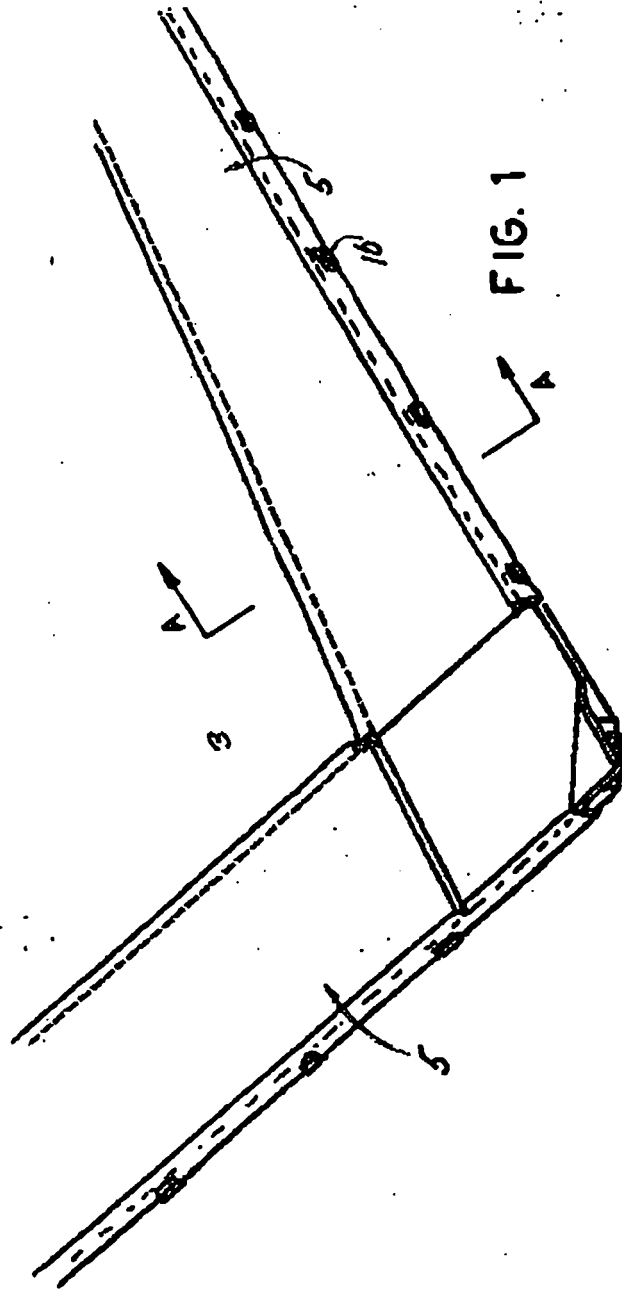
caractérisé en ce que

la housse (8) se prolonge, au bord externe inférieur (12) du coussin (5), dans une première bande de tissu (13) qui comprend, à son extrémité, une première coulisse (14), que sur le côté extérieur (15) du cadre (1) se trouvent, au fond, à une distance mutuelle définie, des longueurs de tuyau soudées (16) par lesquelles peut être insérée une baguette (17) qui peut être insérée dans la première coulisse (14), et que le bord inférieur interne (18) du coussin (5) se prolonge dans une seconde bande de tissu (19) qui comprend, à l'extrémité, une seconde coulisse (20) qui porte la corde élastique (11).

3. Trampoline selon la revendication 2,

caractérisé en ce que

les premières bandes de tissu (13) sont d'une longueur permettant de maintenir, quand la baguette (17) est introduite dans la première coulisse (14), le côté extérieur (9) du coussin (5) de sorte qu'il est au niveau du côté extérieur (15) du cadre (1).



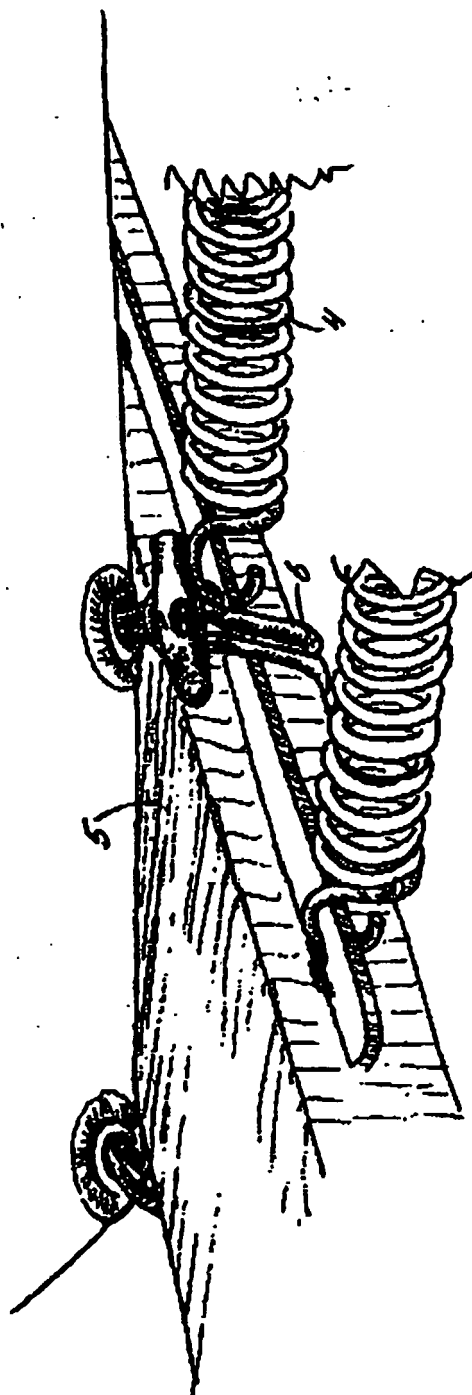


FIG. 3

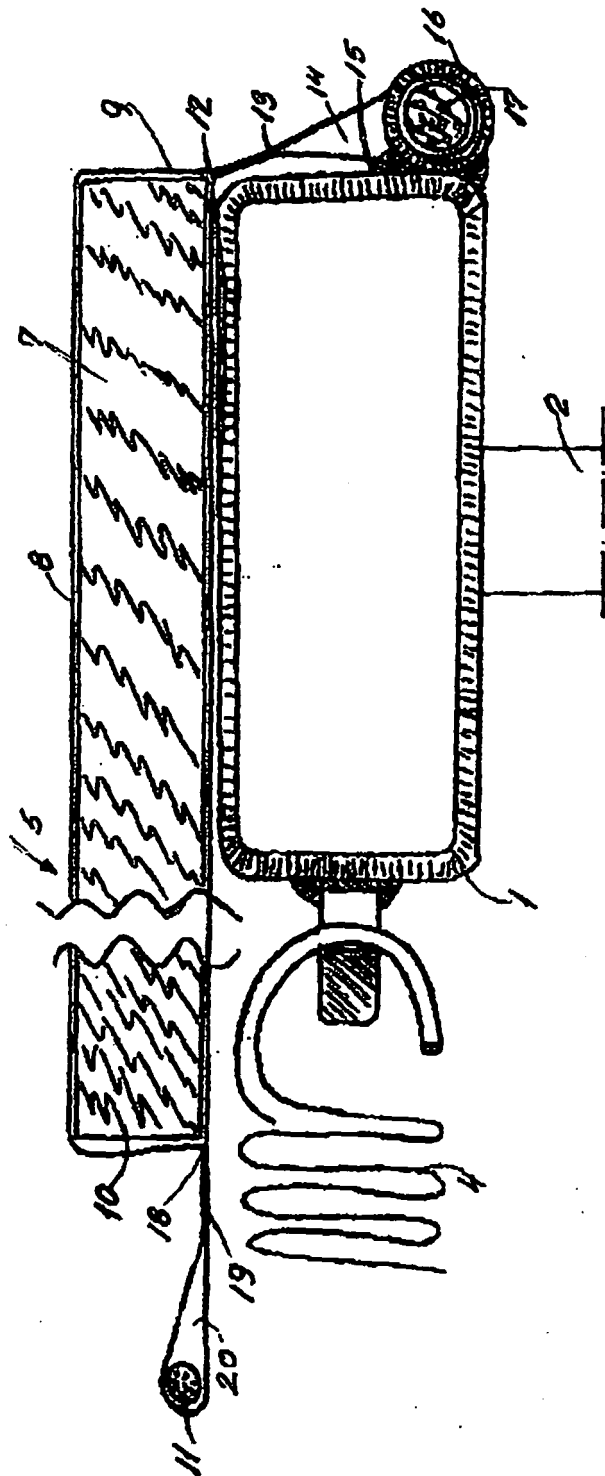
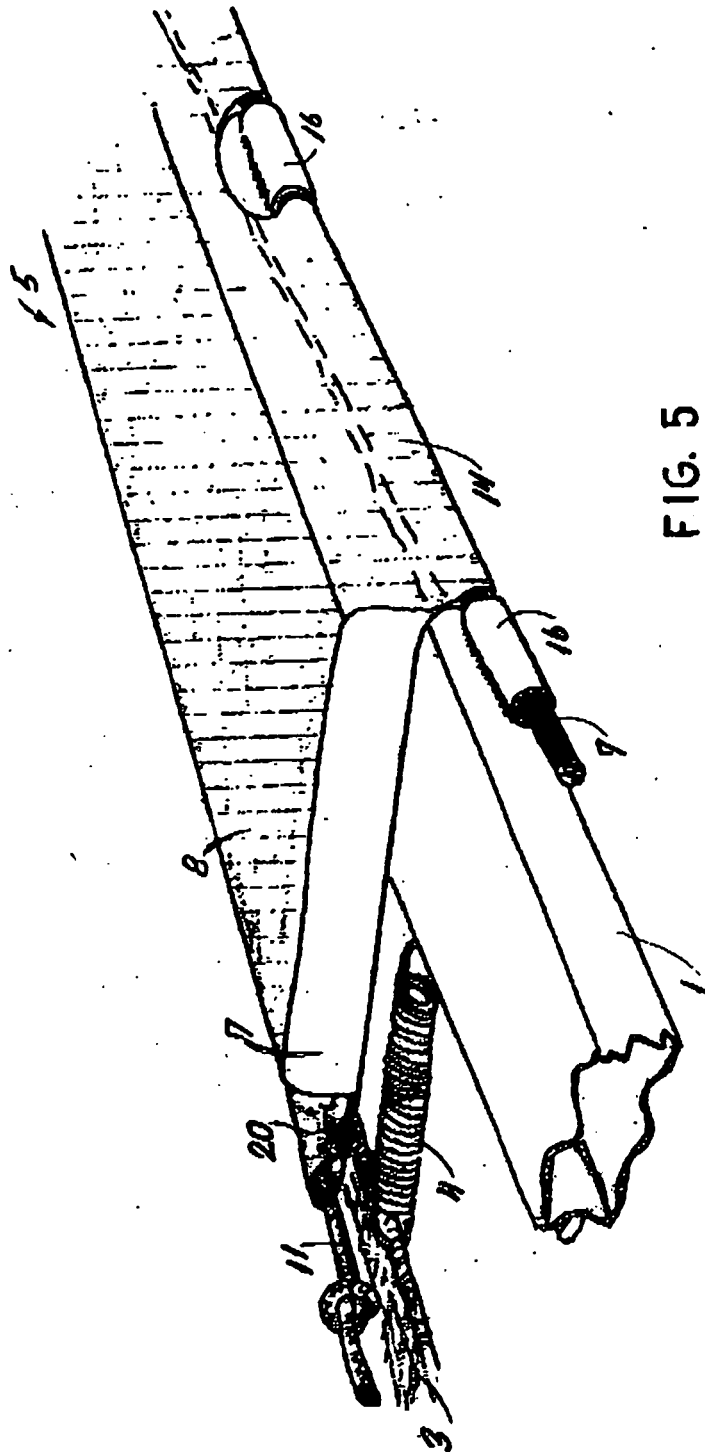


FIG. 4



REFERENCES CITED IN THE DESCRIPTION

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