



(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
15.11.2017 Bulletin 2017/46

(51) Int Cl.:
A47C 29/00 (2006.01) **A47D 7/00** (2006.01)
A47D 9/00 (2006.01) **A47D 15/00** (2006.01)

(21) Application number: **17075008.7**

(22) Date of filing: **29.03.2017**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA MD

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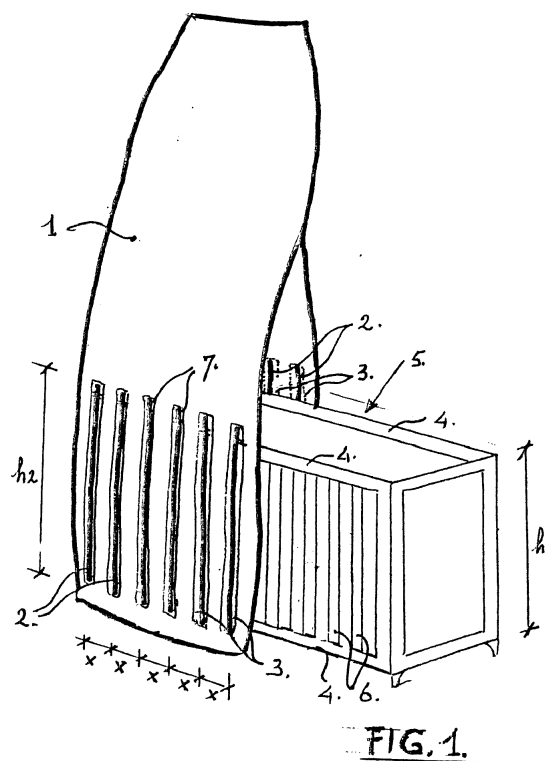
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(30) Priority: **12.05.2016 NL 1041865**

(27) Previously filed application:
12.05.2016 NL 1041865

(54) **SAFE CANOPY FOR BABY COTS OR CHILD'S BEDS**

(57) The invention concerns a safe canopy (1) for baby cots or child's beds (5) and give babies and very small children a safe and secure feeling. Mentioned cot (1) hangs around the head and side panels (4), where these are usually built from vertical rods or pins (6) in a rectangular frame, of which the height is h_1 . On the underside of the canopy (1) elongated bending stiff elements (2) in elongated stitched on bags (3) are applied at equal distances (X), The length of the elongated bending stiff elements (2) is h_2 , in which circa $h_2 > 1,2 h_1$. Because of this construction the baby or little child is unable to pull the material of the canopy (1) into the cot or bed and in this manner a life threatening situation is averted in a very surprising way.



Description

[0001] The invention concerns a canopy for baby cots or child's beds, where the canopy hangs down from the ceiling or hangs over a sky rod on the outside of the head and side panels of the cot or child's bed, where the head and side panels are built from a rectangular frame with in between vertical bars or pins at equidistant intervals, in which the canopy is mostly made of a light net or lace curtain.

[0002] A canopy has the function to offer a baby or child safety and hangs as a covering over a cot or child's bed. In popular speech it is also called a mosquito net. A mosquito net though serves to keep insects away. The shape of a canopy is tapering, of which the narrow top can be hanged from the ceiling or on a sky rod by means of a hook. The remaining fabric of the canopy hangs down at both sides and head side on the outside of the cot or child's bed.

[0003] Described canopy is well known, but is dangerous as such because a baby or child lying in the cot or child's bed can pull the fabric of the canopy towards him/herself through the bars or pins of the cot or child's bed. The baby or the child could become entangled when he or she has pulled the fabric through the bars or pins and subsequently holds on to the fabric and would start turning around with her/his body. Then the baby or child could suffocate.

[0004] Known from patent literature is the American patent US D605,869S, titeld: "Baby Cot with Canopy", from inventors: Hakan BERGKVIST (SE) and Lisen ELMBERG (SE). This known invention has the afore mentioned disadvantage, that no provisions have been made to prevent pulling the fabric through the bars of pins of the cot. Cots with canopies as available in the trade have the same drawbacks.

[0005] The object of the present invention is to provide an improved or modified safe canopy or net for cots or child's beds, which do not have the mentioned disadvantages and which design and construction can be put on the market in an economically responsible manner.

[0006] For this purpose the canopy for cots or child's beds according to the invention is further developed or modified in such an inventive way, characterised in that for protection against suffocation of the baby, who can pull the light net fabric of mentioned canopy into the cot, mentioned canopy at equidistant intervals is provided with long bending stiff elements, which are attached to insertion elements at the canopy.

[0007] The advantage is that the baby or child cannot or hardly pull the fabric or the material of the canopy into the cot or child's bed. Therefore, there is no more danger for suffocation.

[0008] Furthermore, the canopy according to the invention is developed in such a way that mentioned long bending stiff elements are elongated vertically applied bending stiff elements with a length larger than the vertical height of the head and side panels of the cot or the

child's bed.

[0009] The advantage is that the elongated vertically applied bending stiff elements behave as a beam on two supporting positions with executed on it a roughly in the middle concentrated load, so that sufficient mechanical strength can be obtained by mechanical calculation. This determines the dimension of the cross section and the material used for the elongated bending stiff elements.

[0010] Then the canopy according to the invention is developed in such a way that the heart-to-heart distance of mentioned equidistant intervals of the elongated vertically applied bending stiff elements lies between 50 mm and 150 mm, preferably circa 75 mm.

[0011] The advantage is, that the load executed by the baby or the child is spread over a pair of elongated vertically applied bending stiff elements, by which the load on one elongated vertically applied bending stiff element will be about half.

[0012] Furthermore can be stated that applying the bending stiff elements in a different direction than the direction of the bars or pins of the cot or child's bed is not useful when trying to provide for a more effective solution of the problem.

[0013] The invention is further described hereinafter, according to a preferred embodiment, by way of example only, by way of accompanying drawings, in which;

figure 1 shows an elevation or view in oblique projection of the canopy with bending stiff elements with baby cot or child's bed according to a preferred embodiment of the invention;

figure 2 shows an elevation in oblique projection of the bending stiff elements of figure 1; and

figure 3 shows an oblique projection of a sky rod for erection of the canopy according to the invention.

[0014] In figure 1 an elevation in oblique projection is shown of canopy 1 with elongated bending stiff elements 2 in elongated stitched on bags 3 on the fabric of the canopy 1, according to the invention. The canopy 1 hangs across the head and side panels 4 of the cot or child's bed 5. De indicated side panels 4 are provided with bars or pins 6. The height h2 of the elongated bending stiff elements 2 is larger than the height h1 of mentioned side panels 4 (e.g. $h2 > 1,2 h1$). The canopy 1 is supported by a sky bar, which is not shown. The heart-to-heart distance X of the elongated vertical bending stiff elements 3 lies between 50 mm and 150 mm, preferably circa 75 mm. The material of the elongated vertical bending stiff elements 3 can consist of wood, plastic, glass fibre, carbon or plexiglass.

[0015] In figure 2 an elevation in oblique projection is shown of the elongated bending stiff elements 2 in the elongated stitched on bags 3. On top, the elongated stitched on bags 3 are provided with a lock-up provision 7 as an extension of the elongated stitched on bags 3.

[0016] In figure 3 the sky bar 10 with cuppling 13 is fixed with a screw 14 into a tube 11, which is placed on

a flooring 8 and is fixed under a pair of bed legs 12. So, the sky bar 10 can still be adjusted by screw 13 in vertical sense and fixed by screw 14.

[0017] Finally, it has to be emphasized that above a preferred embodiment of the invention has been described and that further modifications and such are possible without leaving the scope of this patent specification.

Claims

1. Canopy for baby cots or child's bed, in which the canopy hangs down from the ceiling or hangs over a sky rod on the outside of the head and side panels of the cot or child's bed, where the head and side panels are built from a rectangular frame with in between vertical bars or pins at equidistant intervals, in which the canopy is mostly made of a light net or lace curtain, **characterised in that**, for safety reasons in order to prevent suffocation of the baby, who can pull the light net fabric of mentioned canopy (1) into the cot or child's bed (5), mentioned canopy is provided with elongated bending stiff elements (2) a equidistant intervals, which are attached to inserting elements of the canopy (1). 15
2. Canopy according to claim 1, **wherein** mentioned elongated bending stiff elements (2) are elongated vertically applied bending stiff elements with a length larger than the vertical height of the head and side panels (4) of the cot or the child's bed (5). 20
3. Canopy according to claim 2, **wherein** the elongated vertically applied bending stiff elements (2) are strips, which are applied in elongated stitched up bag shapes (3) on mentioned net fabric of the canopy (1). 25
4. Canopy according to claim 3, **wherein** mentioned elongated stitched up bag shapes (3) are provided with lock-up provisions (7) at the top. 30
5. Canopy according to claim 1 - 2, **wherein** the bending stiff elements (2) are made of wood, preferably pine or oak. 35
6. Canopy according to claim 1 - 2, **wherein** the bending stiff elements (2) are made of plastic, preferably polypropylene. 40
7. Canopy according to claim 1 - 4, **wherein** the heart-to-heart distance of mentioned equidistant intervals of the elongated vertically applied bending stiff elements (2) lies between 50 mm and 150 mm, preferably 75 mm. 45
8. Canopy according to claim 1, **wherein** mentioned bending stiff elements (2) are applied horizontally at 50

an angle to the horizontal.

9. Canopy according to claim 1, **wherein** mentioned sky rod (10) for suspending the canopy (1) is mounted to the floor (8) on a bending stiff plate (9) with sufficient dimensions and on which one or two legs of the baby cot or the child's bed are placed. 5
10. Canopy according to claim 1, **wherein**, as a mosquito net, the canopy (1) covers the complete cot or child's bed. 10

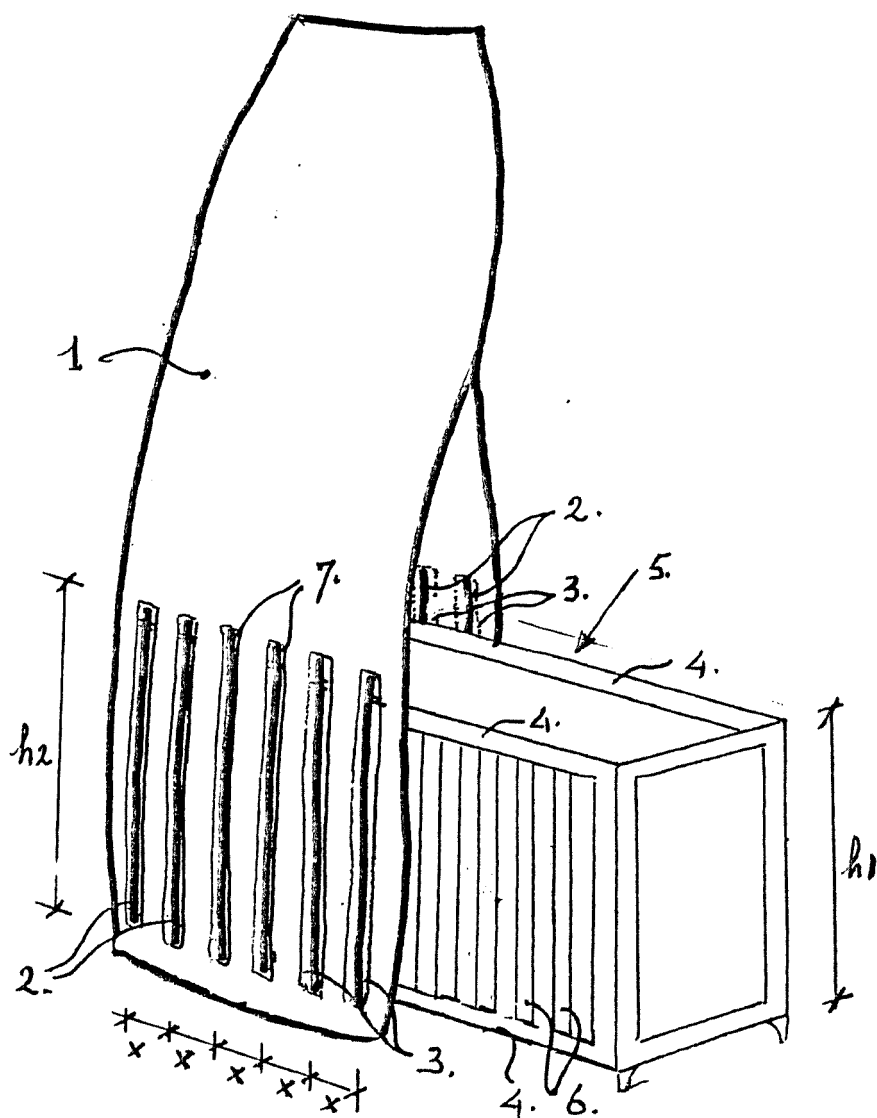
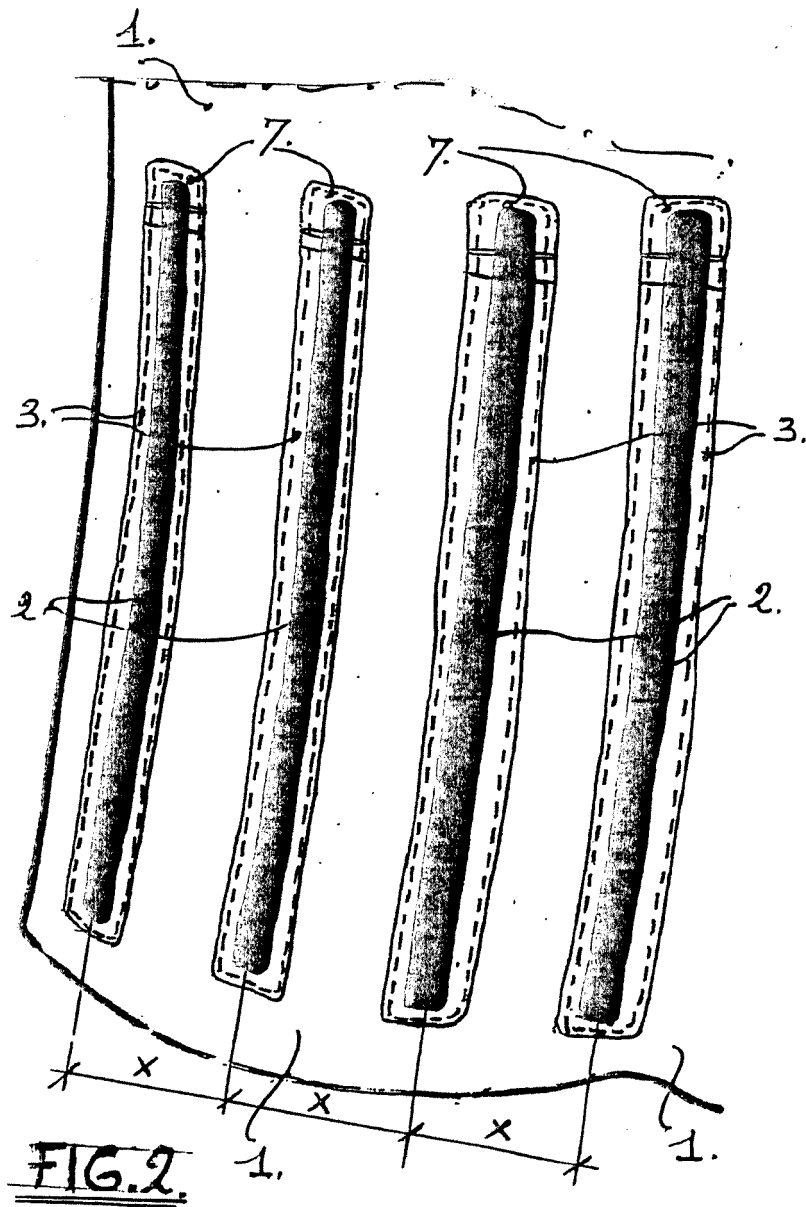
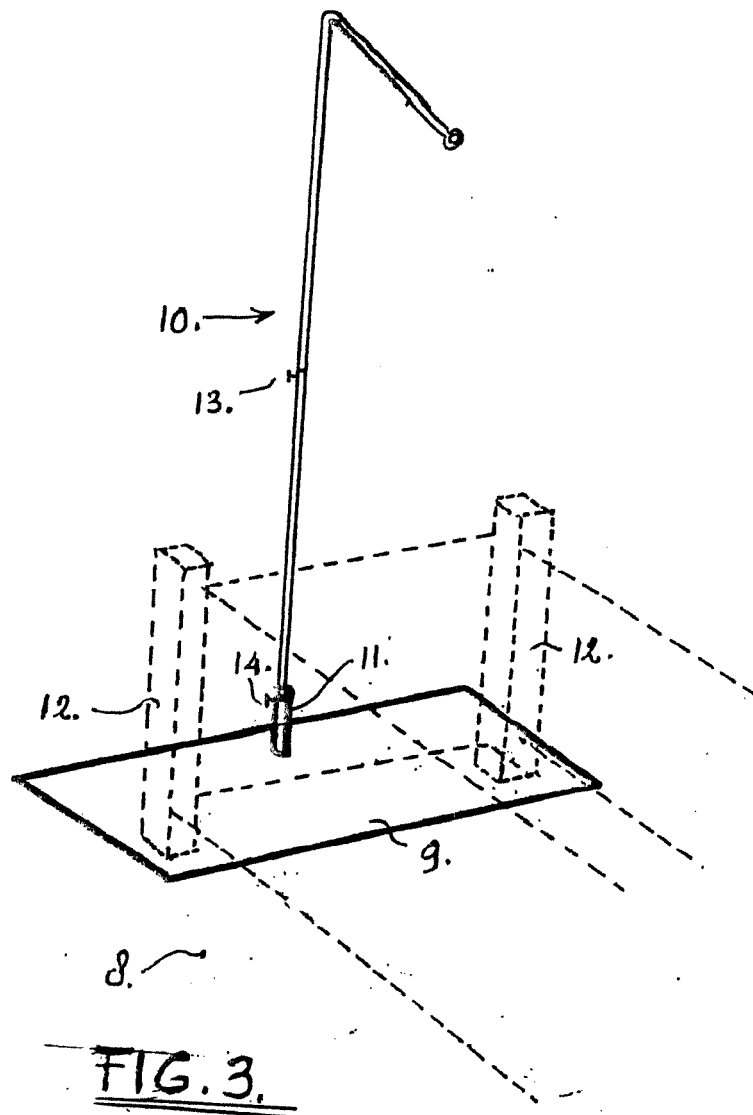


FIG. 1.







EUROPEAN SEARCH REPORT

 Application Number
 EP 17 07 5008

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DOCUMENTS CONSIDERED TO BE RELEVANT			
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X,P	NL 1 041 420 B1 (JEFFREY ROMEO DANDLAU [NL]) 28 February 2017 (2017-02-28) * pages 1-4; claims 1-10; figures 1-3 *	1-10	TECHNICAL FIELDS SEARCHED (IPC) A47C A47D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 28 September 2017	Examiner Kus, Slawomir
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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 EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 17 07 5008

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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
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28-09-2017

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EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

REFERENCES CITED IN THE DESCRIPTION

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