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## EUROPEAN PATENT APPLICATION

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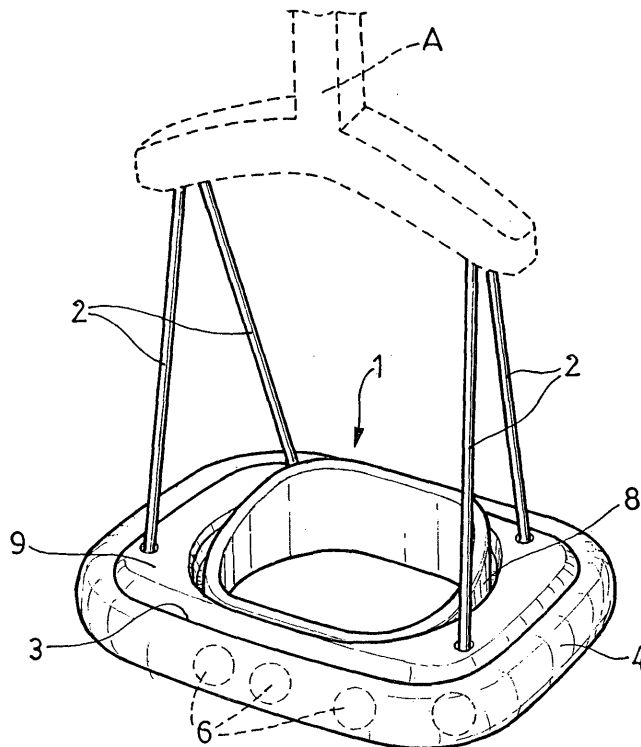
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(54) **An infant swing seat carrier**

(57) This carrier is made up by a frame (1) having suspension elements (2) attached to it, and is characterised in that it comprises on its periphery (3) the arrangement of a cushioning protector being made up by an inflatable framing (4), this latter being transparent and

housing in its inside various objects (6) for the child's entertainment. The inflatable framing (4) is provided with a valve (5) and has on its inner periphery a flange (7) through which it is fixedly clamped between components (8) and (9) of the frame (1).



**Fig. 1**

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## Description

### FIELD OF THE INVENTION

[0001] This carrier is meant for domestic infant swings of the type being installed inside a house by generally suspending them from a door lintel.

### BACKGROUND OF THE INVENTION

[0002] There exist several models of this kind of infant swings which generally consist of a seat being suspended by means of a framework being provided with elastic suspension means, said framework being fit to be removably secured to a doorframe lintel.

[0003] Because of the seat's hanging arrangement and due to the child's motions the seat rocks about and is thereby laterally shifted thereby occasionally bumping against the doorjamb and in consequence endangering the child's integrity.

### SUMMARY OF THE INVENTION

[0004] The invention has as its object a carrier for the seats being used with this kind of swings, said carrier being provided with means being fit to cushion said bumps that might possibly be sustained, said means being made up by a pneumatic protector being formed by an inflatable framing being fixedly arranged on the periphery of the seat carrier.

[0005] This inflatable framing will be preferentially transparent and will house in its inside various objects for the child's entertainment, said inflatable framing being provided with the corresponding valve.

[0006] These and other characterising features will be best made apparent by the following detailed description whose understanding will be made easier by the accompanying sheet of drawings showing a practical embodiment being cited only by way of example not limiting the scope of the present invention.

### DESCRIPTION OF THE DRAWINGS

[0007] In the drawings:

Fig. 1 shows in a perspective view the infant swing seat carrier being the object of the invention; and Fig. 2 is a sectional elevation illustrating in detail how the inflatable framing is fixedly clamped to the carrier.

### DETAILED DESCRIPTION

[0008] According to the drawings the infant swing seat carrier is made up by a frame (1) having attached to it at each of four points a respective suspension element (2), said suspension elements being upperly secured to the framework (A), this latter comprising a spring and upperly having the height adjustment means and the convention-

al means (not shown) being provided for securing the assembly to the lintel of the door.

[0009] A characterising feature lies in the fact that this carrier (1) comprises on its periphery (3) the arrangement of a cushioning protector being made up by an inflatable framing (4) being of cylindrical cross-section and provided with the corresponding valve (5).

[0010] This inflatable framing (4) is of transparent plastics material, and in its inside objects are arranged for the child's entertainment, said objects in this case being made up by balls (6).

[0011] Fig. 2 depicts an example of the way to fixedly clamp the inflatable framing (4) to the carrier (1), said clamping being made by introducing a flange (7) being provided on the inner periphery of said framing and thus being gripped between a base piece (8) of the carrier and a top piece (9) being fastened on said base by means of screws (10).

### Claims

1. An infant swing seat carrier being made up by a frame (1) having suspension elements (2) attached to it, **characterised in that** it comprises on its periphery (3) the arrangement of a cushioning protector being made up by an inflatable framing (4).
2. An infant swing seat carrier as per claim 1, **characterised in that** the inflatable framing (4) is transparent.
3. An infant swing seat carrier as per claims 1 and 2, **characterised in that** in the inside of the inflatable framing (4) various objects (6) are arranged for the child's entertainment.
4. An infant swing seat carrier as per claim 1, **characterised in that** the inflatable framing (4) is provided with a valve (5).
5. An infant swing seat carrier as per claim 1, **characterised in that** a flange (7) is provided on the inner periphery of the inflatable framing (4), this latter through said flange being fixedly clamped between components (8) and (9) of the frame (1).

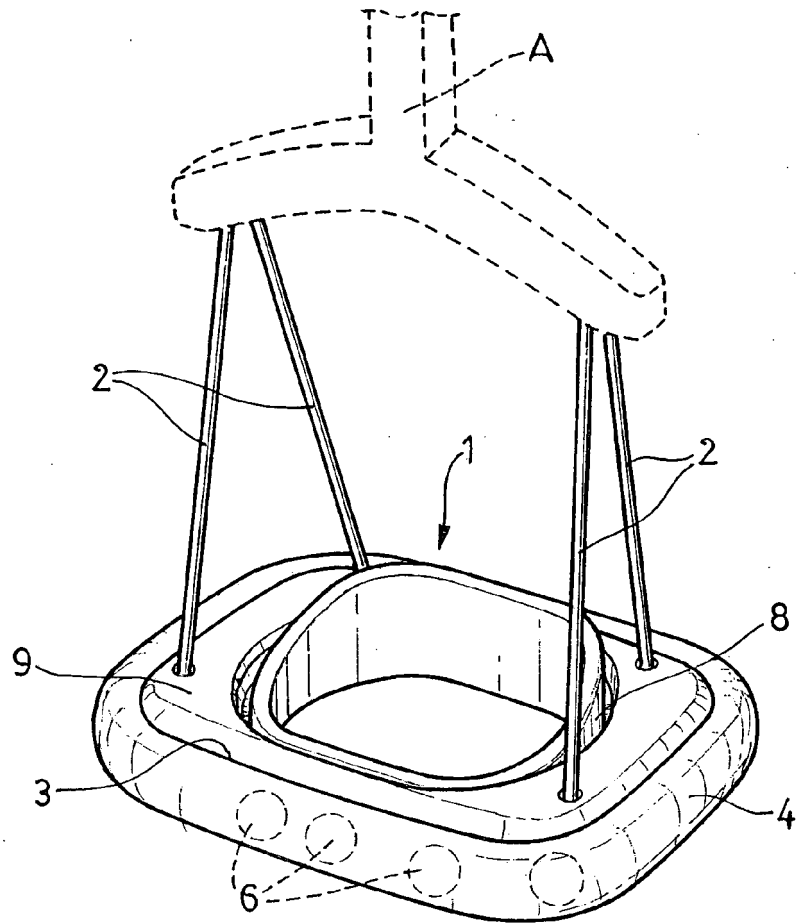


Fig. 1

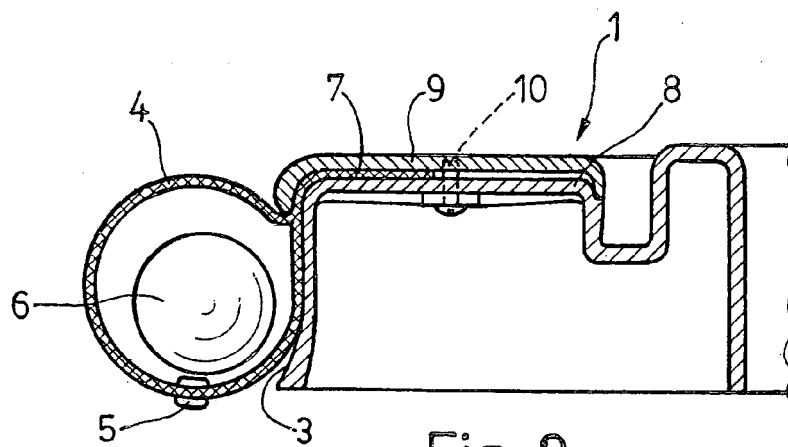


Fig. 2



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## EUROPEAN SEARCH REPORT

Application Number  
EP 06 38 0127

| DOCUMENTS CONSIDERED TO BE RELEVANT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                        |                                  |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|
| Category                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Citation of document with indication, where appropriate, of relevant passages                                                                          | Relevant to claim                | CLASSIFICATION OF THE APPLICATION (IPC) |
| X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | US 5 947 875 A (CONE ET AL)<br>7 September 1999 (1999-09-07)                                                                                           | 1                                | INV.<br>A47D13/10<br>A63G9/00           |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | * column 7, lines 37-39 *                                                                                                                              | 2-4                              |                                         |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | * column 9, lines 48-50; figures 1,8 *                                                                                                                 | 5                                |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -----<br>US 3 145 048 A (DOWDY RALPH F ET AL)<br>18 August 1964 (1964-08-18)<br>* column 1, lines 56-63 *<br>* column 3, lines 38-41; figures 1-3 *    | 4                                |                                         |
| Y                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -----<br>US 3 493 228 A (JUDY L. HICKS ET AL)<br>3 February 1970 (1970-02-03)<br>* column 2, lines 16-22,61-66 *<br>* column 3, lines 17-19; figures * | 2,3                              |                                         |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -----<br>US 4 431 183 A (REIMANN ET AL)<br>14 February 1984 (1984-02-14)<br>* column 5, lines 26-30; figures *                                         | 1-4                              |                                         |
| The present search report has been drawn up for all claims                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                        |                                  | TECHNICAL FIELDS SEARCHED (IPC)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                        |                                  | A47D<br>A63G                            |
| Place of search                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                        | Date of completion of the search | Examiner                                |
| The Hague                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                        | 6 October 2006                   | Amghar, Norddin                         |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone<br/>Y : particularly relevant if combined with another document of the same category<br/>A : technological background<br/>O : non-written disclosure<br/>P : intermediate document</p> <p>T : theory or principle underlying the invention<br/>E : earlier patent document, but published on, or after the filing date<br/>D : document cited in the application<br/>L : document cited for other reasons<br/>.....<br/>&amp; : member of the same patent family, corresponding document</p> |                                                                                                                                                        |                                  |                                         |

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EPO FORM 1503 03.82 (P04C01)

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

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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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06-10-2006

| Patent document<br>cited in search report |   | Publication<br>date | Patent family<br>member(s) | Publication<br>date |
|-------------------------------------------|---|---------------------|----------------------------|---------------------|
| US 5947875                                | A | 07-09-1999          | NONE                       |                     |
| US 3145048                                | A | 18-08-1964          | NONE                       |                     |
| US 3493228                                | A | 03-02-1970          | NONE                       |                     |
| US 4431183                                | A | 14-02-1984          | NONE                       |                     |