

Title (en)

Pneumatic mattress.

Title (de)

Luftmatratze.

Title (fr)

Matelas pneumatique.

Publication

EP 0678263 A1 19951025 (FR)

Application

EP 95400101 A 19950119

Priority

FR 9402318 A 19940301

Abstract (en)

The pneumatic mattress, has two principal walls (2,3) connected along their periphery to form a closed sealed chamber (6). Their is a valve for introducing compressed air into the chamber. The internal faces (2a,3a) opposite the principal walls are joined by several elastic connecting tension wires (7). The inflation pressure is chosen so as to separate the walls by a sufficient distance (1) to place the wires in tension. The tension wires can be stretched by at least 100% and preferably greater than 300% before rupture. When the mattress is inflated the tension wires are orthogonal to the principal walls. In their unstretched state the wires may be all of the same or different length. The density of the wires is equal to at least one wire per cm<2> and less than or equal to 20 wires per cm<2> of the wall. <IMAGE>

Abstract (fr)

Le matelas pneumatique comporte deux parois principales (2, 3) reliées suivant leur périphérie pour constituer une chambre fermée étanche (6), et au moins une valve (5) pour l'introduction d'un gaz sous pression, notamment d'air comprimé, dans ladite chambre. Les faces internes (2a, 3a) en regard des parois principales sont reliées par une pluralité de moyens de liaison élastiques (7) propres à travailler en traction, à allongement important sous tension, la pression de gonflage étant choisie pour écarter les parois d'une distance (1) suffisante pour faire travailler les moyens élastiques de liaison en tension. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

A47C 27/081 (2013.01); **A47C 27/087** (2013.01)

Citation (search report)

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