

Title (en)  
ONE-PIECE MATTRESS SUSPENSION DEVICE

Title (de)  
MONOBLOCKVORRICHTUNG ZUR AUFHÄNGUNG VON MATRATZEN

Title (fr)  
DISPOSITIF MONOBLOC DE SUSPENSION DE MATELAS

Publication  
**EP 3087872 A1 20161102 (FR)**

Application  
**EP 16167422 A 20160428**

Priority  
FR 1553944 A 20150430

Abstract (en)  
[origin: US2016316924A1] The invention relates to a one-piece suspension device for interposing between a mattress and a support structure. The device includes a platform defining a bearing plane for the mattress, a fastener point for fastening to the support structure, and a resilient section. The resilient section is more resilient than the platform in a direction perpendicular to the bearing plane and it is interposed between the platform and the fastener point in the direction perpendicular to the bearing plane to absorb compression forces. The one-piece suspension device is shaped such that any axis perpendicular to the bearing plane and passing through the one-piece suspension device intersects the one-piece suspension device along a single intersection segment. The resilient section has at least two elastic hinges with different flexibilities.

Abstract (fr)  
L'invention concerne un dispositif monobloc de suspension (2) destiné à être interposé entre un matelas et une structure de support (10), comprenant un plateau (3) définissant un plan d'appui (A) du matelas, un point de fixation à la structure de support (10), et une section élastique (6). Cette section élastique (6) est plus élastique que le plateau (3) en direction perpendiculaire au plan d'appui (A) et est interposée entre le plateau (3) et le point de fixation dans la direction perpendiculaire au plan d'appui (A) pour absorber des efforts de compression. Le dispositif monobloc de suspension (2) est conformé de telle manière que tout axe (Z 1 , Z 2 ) perpendiculaire audit plan d'appui (A) traversant le dispositif monobloc de suspension (2) intersecte le dispositif monobloc de suspension (2) sur un seul segment d'intersection (S 1 , S 2 ). La section élastique comprend au moins deux charnières élastiques (9c, 9d) à flexibilités différentes.

IPC 8 full level  
**A47C 23/00** (2006.01)

CPC (source: EP US)  
**A47C 19/02** (2013.01 - US); **A47C 21/06** (2013.01 - US); **A47C 23/002** (2013.01 - EP US)

Citation (applicant)

- FR 3005400 A1 20141114 - TOURNADRE SA STANDARD GUM [FR]
- FR 2914164 A1 20081003 - CREATIONS ANDRE RENAULT SOC PA [FR]
- FR 2859891 A1 20050325 - CREATIONS ANDRE RENAULT [FR]
- DE 102012107887 B3 20131114 - LEINSS GMBH U [DE]
- EP 2489288 A1 20120822 - HARTMANN SIEGBERT [DE]
- DE 202007000158 U1 20070308 - SPIROPLEX GMBH [DE]

Citation (search report)

- [A] DE 102012107887 B3 20131114 - LEINSS GMBH U [DE]
- [A] EP 2489288 A1 20120822 - HARTMANN SIEGBERT [DE]
- [A] DE 202007000158 U1 20070308 - SPIROPLEX GMBH [DE]

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