

Title (en)  
ADJUSTABLE SLAT SUSPENSION DEVICE

Title (de)  
VERSTELLBARE LAGERUNG FÜR FEDERLEISTEN

Title (fr)  
DISPOSITIF DE SUSPENSION DE LATTES RÉGLABLES

Publication  
**EP 3087873 A1 20161102 (EN)**

Application  
**EP 15165564 A 20150429**

Priority  
EP 15165564 A 20150429

Abstract (en)  
A suspension device for supporting a mattress comprising: a base part (1) comprising slots (2) for attachment to a bedding structure; a top part (3) comprising slots (4) for receiving slats therein; a spring element provided between the base (1) and the top part (3) for resiliently suspending the slats in view of the bedding structure, whereby the spring element comprises at least: #c a first spring element (5) extending between the base part (1) and the top part (3) of the device; and #c a second spring element (6) extending between the base part (1) and the top part (3) of the device; and #c an adjustable member (7) allowing adapting the spring characteristic of the suspension device, wherein said second spring element (6) comprises a first spring portion (6a) fixed to the base part (1) and extending towards the top part (3); a second spring portion (6b) fixed to the top part (3) and extending towards the base part (1); and a bridge portion (6c) connecting the free ends of the first and second spring portions (6a, 6b), whereby the first and second spring portions (6a, 6b) are spaced apart in a direction perpendicular to the suspension direction and the bridge portion (6c) defining an abutment surface (8) and in that the adjustable member (7) is movable in a guide (9) or series of slots provided in the top part (3) and comprises an actuating member (10) that is in contact with the abutment surface (8), such that repositioning the adjustable member (7) in said guide (9) or series of slots changes the contact position of the actuating member (10) on the abutment surface (8), thereby varying the spring characteristic of the device.

IPC 8 full level  
**A47C 23/06** (2006.01)

CPC (source: EP)  
**A47C 23/067** (2013.01)

Citation (applicant)  
• EP 1649786 A1 20060426 - HARTMANN SIEGBERT [DE]  
• US 2013334746 A1 20131219 - LOBRY JACQUES [FR], et al

Citation (search report)  
• [X] EP 1364600 A1 20031126 - DELAHOUSSE ET FILS SA [FR]  
• [A] EP 1836934 A1 20070926 - DELAHOUSSE ET FILS SA [FR]  
• [AD] US 2013334746 A1 20131219 - LOBRY JACQUES [FR], et al

Cited by  
EP3400841A1; FR3066087A1; US10722042B2; US10932586B2

Designated contracting state (EPC)  
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 state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3087873 A1 20161102; EP 3087873 B1 20210901**; ES 2899723 T3 20220314

DOCDB simple family (application)  
**EP 15165564 A 20150429**; ES 15165564 T 20150429