

Title (en)  
SUPPORT STRUCTURE FOR BED BASES

Title (de)  
STÜTZSTRUKTURFÜR BETTUNTERTEIL

Title (fr)  
STRUCTURE DE SUPPORT POUR BASES DE LIT

Publication  
**EP 0967903 B1 20010912 (EN)**

Application  
**EP 97940109 A 19970814**

Priority  
• EP 9704571 W 19970814  
• IT UD970034 A 19970217

Abstract (en)  
[origin: WO9835591A1] A support structure for bed bases (11), comprising a plurality of elastic slats (1), bars or strips positioned transversely to the bed frame (12) and connected to it via slat-carrying rocker joints (6), and a plurality of hydraulic jacks (2) positioned at least in a central region of the bed base (11) and connecting the rocker joints (6) to the frame (12). The hydraulic jacks (2) are connected together longitudinally to form a hydraulic circuit (3) operating on the basis of communicating vessels. By utilizing the phenomenon of pressure equalization, the pistons (15, 30) of the jacks (2) react to the pressures exerted by the body distended on the bed base (11), to compensate the hollowing created by the heavier parts of the body, i.e. those situated between the shoulder and pelvis, with an upward thrust for supporting the lighter parts, i.e. the back and kidneys.

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**A47C 23/06**

IPC 8 full level  
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**A47C 23/065** (2013.01)

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**WO 9835591 A1 19980820**; AU 4206697 A 19980908; CA 2279921 A1 19980820; DE 69706711 D1 20011018; DE 69706711 T2 20020704; EP 0967903 A1 20000105; EP 0967903 B1 20010912; ES 2164369 T3 20020216; IT 1290723 B1 19981210; IT UD970034 A1 19980817; JP 2001512335 A 20010821

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