

Title (en)
THREE-POINT BRIDGE SUSPENSION END BEARING FOR TRANSVERSE SLATS IN BED UNDERFRAMES

Title (de)
DREIPUNKT-BRÜCKENFEDERUNGS-ENDLAGER FÜR QUERLEISTEN IN BETTUNTERRAHMEN

Title (fr)
EMBOUT DE SUSPENSION EN POINT A TROIS POINTS POUR TRAVERSE DE CADRE INFERIEUR DE LIT

Publication
EP 0793432 B1 19990310 (DE)

Application
EP 95940203 A 19951118

Priority
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• EP 9504541 W 19951118
• DE 9418652 U 19941122

Abstract (en)
[origin: DE4441476A1] The proposed three-point bridge suspension end bearing for transverse slats in bed frames is characterized by the fact that a central suspension element (1) is arranged centrally between two elastic bridge elements (2, 2') which can be connected via mount eyes (3, 3') to the bed underframe (4); the central suspension element can be supported by a fixed or mobile bearing (5). Transverse slat caps (7, 7') can be incorporated in the top parts of the bridge elements (2, 2') and form an obtuse angle alpha with one another. Transverse connections (6, 6') between the bridge elements (2, 2') and the central suspension element (1) or the central suspension element formed from bow-shaped segments ensure a guided rising movement and good lateral stability. The mount eyes (9, 9') can advantageously rotate about the mount journals (3, 3'). The elements (1, 2, 2', 6, 6') consist of elastic materials. By using reinforcing elements and the fixed bearing (5), it is possible to adjust the end bearing to the weight and weight distribution of the body lying on the bed. According to the invention, the adjustment rise is at least H/2 of the end bearing height H if the bearing (5) is fixed and up to about H if the bearing is a mobile one and the mount eyes (9, 9') rotate about the mount journals (3, 3'). The transverse slat connections (6, 6') in collaboration with the bridge elements (2, 2'), or the air chamber of a pneumatic sprung face bearing, or a flexible/elastic web, can be used as the moving bearing, the latter two interactively coupling the end bearings. The large adjustment rise and, where appropriate, the coupling by a common mobile bearing ensures optimal comfort for the user when lying either on his side or back.

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A47C 31/12

IPC 8 full level
A47C 23/06 (2006.01)

CPC (source: EP US)
A47C 23/064 (2013.01 - EP US); **A47C 23/066** (2013.01 - EP US)

Cited by
DE102005026058B4; DE202007006722U1; WO2006111333A1; DE202007015845U1; DE202010009719U1; WO2011023892A1; WO0150924A1; US6647574B2

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