

Title (en)
BEARING ELEMENT FOR UPHOLSTERY SUPPORT FOR A SEAT OR BED SYSTEM

Title (de)
AUFLAGEELEMENT FÜR POLSTERUNTERLAGE VON SITZ- ODER LIEGEFLÄCHEN

Title (fr)
ELEMENT D'APPUI POUR LA BASE DE COUSSIN DE SURFACES DE SIEGE OU DE LIT

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Abstract (en)
[origin: US6477727B1] The invention relates to a bearing element having a base plate fitted on a support, for a seat or bed system, with a bearing plate to hold upholstery. The invention seeks to produce a bearing element whose range of spring is approximately equal to the total height, and which is easy to produce. To this end, at least two spring elements serving as bearing arms (12, 22) are fitted between the base plate (11, 21) and the bearing plate (15, 25). These spring elements, configured like leaf springs, are directed outwards from the base plate (11, 21). Their outer ends join the bearing plate (15, 25). In another version of the invention, a spring body (35, 35') is fitted between the base and bearing plate. The spring body head (35.2) and foot (35.1), like the bearing plate and base plate, have corresponding locking parts, so that the bearing plate can also be removably placed on the spring body (15, 15') and on the base plate (21). The invention also seeks to provide a bed system that is fitted with the inventive bearing elements, and which is characterized by its versatility. To this effect, fixing means for bearing elements are fitted on the plate or laths, preferably as undercrosses (30) that can be connected by socket connectors, with fixing means for the bearing element (10, 20) in the crossing area. A second version of the invention is intended in particular for lath frames (2) with mountable frame part(s) (3, 5, 7). In this version, at least one row of bearing elements (30') belonging to the outer mountable frame part is fitted with bearing elements (35') having a foot support (31) and a bearing plate (20, 40, 50). The other rows have bearing elements (30), which comprise a foot support (31), spring body (35, 35') and bearing plate (20, 40, 50).

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Cited by
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