

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

Publication
EP 0996349 A2 20000503 (DE)

Application
EP 98940235 A 19980717

Priority

- DE 29712720 U 19970718
- DE 29712721 U 19970718
- DE 29721655 U 19971209
- EP 9804420 W 19980717

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).

IPC 1-7
A47C 23/00

IPC 8 full level
A47C 23/00 (2006.01); **A47C 23/04** (2006.01); **F16F 3/08** (2006.01)

CPC (source: EP US)
A47C 23/002 (2013.01 - EP US)

Cited by
EP1532900A1; DE10330644B3; DE102012107887B3; EP3037019A1; WO2005002399A1; EP2412278A1; DE102010045733A1; DE202016101833U1; WO2005048781A2; EP2412279A1; DE102010032912A1; US9629467B2

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IT LI NL PT SE

DOCDB simple family (publication)
US 6477727 B1 20021112; AT E208580 T1 20011115; AU 741449 B2 20011129; AU 8862198 A 19990210; CA 2297086 A1 19990128; CA 2297086 C 20070109; CZ 2000179 A3 20011212; CZ 292929 B6 20040114; DE 29712720 U1 19980910; DE 29712721 U1 19980910; DE 29721655 U1 19990121; DE 59802156 D1 20011220; DK 0996349 T3 20020225; EP 0996349 A2 20000503; EP 0996349 B1 20011114; ES 2167920 T3 20020516; IL 134048 A0 20010430; JP 2001510060 A 20010731; JP 3708435 B2 20051019; PL 190480 B1 20051230; PL 338038 A1 20000925; PT 996349 E 20020429; WO 9903379 A2 19990128; WO 9903379 A3 19990415

DOCDB simple family (application)
US 46296000 A 20000417; AT 98940235 T 19980717; AU 8862198 A 19980717; CA 2297086 A 19980717; CZ 2000179 A 19980717; DE 29712720 U 19970718; DE 29712721 U 19970718; DE 29721655 U 19971209; DE 59802156 T 19980717; DK 98940235 T 19980717; EP 9804420 W 19980717; EP 98940235 A 19980717; ES 98940235 T 19980717; IL 13404898 A 19980717; JP 2000502691 A 19980717; PL 33803898 A 19980717; PT 98940235 T 19980717