

Title (en)
Spring system

Title (de)
Federsystem

Title (fr)
Système ressort

Publication
EP 1716790 A1 20061102 (DE)

Application
EP 06008193 A 20060420

Priority
DE 202005006399 U 20050421

Abstract (en)
Each of the spring elements (2) is assembled of an upper (3) and a lower part (4) as well as of two elastic lateral parts (5) yielding under the weight of the user. A vertical pin (9) is positioned inside each of the elements (2), connected with its lower end to an elastic rope (7). The rope (7) is guided through loops (8) arranged along the frame and pushes the pin (9) back into its prior position when the weight is lifted. The rigidity of the springs (2) can be adjusted by shortening or extending the rope (7).

IPC 8 full level
A47C 23/00 (2006.01)

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

Citation (search report)
• [A] EP 1155643 A2 20011121 - HEIDINGER FLORIAN DR [DE], et al
• [A] EP 0401712 A1 19901212 - SUPERBA SA [CH]
• [A] US 4736932 A 19880412 - HASLIM LEONARD A [US]
• [A] FR 2647000 A1 19901123 - TARAVEL BERNARD [FR], et al
• [A] DE 9418652 U1 19950406 - WEBER ERHARD DR [DE]

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GB2481452B; CN114468670A; US9163687B2; WO2011162619A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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