

Title (en)
Mattress structure

Title (de)
Matratzenstruktur

Title (fr)
Structure de matelas

Publication
EP 2474251 A1 20120711 (EN)

Application
EP 11150434 A 20110107

Priority
• EP 11150434 A 20110107
• CN 2011071894 W 20110317

Abstract (en)
The mattress structure comprises: a mattress body (1); a fixing plate (2), being firmly disposed in the mattress body (1) and having a plurality of fixing holes (21); a moving plate (4), being disposed in the mattress body (1) and above the fixing plate, the moving plate having a plurality of penetrating holes (42); a plurality of flexible members (41), being disposed on the surface of the top end of the moving plate (4); a plurality of fixing members (3), each of the fixing members having a fastening end (31) and a connecting end (32); and a plurality of lifting devices (7), being disposed at the bottom of the moving plate, by means of the lifting devices driving the moving plate (4) and the fixing members (3) holding the flexible members, the flexible members being then compressed in order to adjust the flexible supporting forces of the mattress body (1).

IPC 8 full level
A47C 23/043 (2006.01)

CPC (source: EP)
A47C 23/0435 (2013.01); **A47C 27/061** (2013.01)

Citation (applicant)
US 87727510 A 20100908

Citation (search report)
• [X] AU 551300 B2 19860424 - TREC INTERNATIONAL LTD
• [X] US 2558288 A 19510626 - CARL BACKUS
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• [A] JP H06258134 A 19940916 - FRANCE BED CO
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Cited by
US11019933B2; WO2017009631A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2474251 A1 20120711; WO 2012122714 A1 20120920

DOCDB simple family (application)
EP 11150434 A 20110107; CN 2011071894 W 20110317