

Title (en)  
Deformable undermattress with ergonomic shape

Title (de)  
Verformbare Unteramatratze mit ergonomischem Profil

Title (fr)  
Sommier déformable à profil ergonomique

Publication  
**EP 0774223 A1 19970521 (FR)**

Application  
**EP 96402431 A 19961114**

Priority  
FR 9513463 A 19951114

Abstract (en)  
The bed base has chest and leg-foot parts which can be raised to variable heights. It is constituted by a flexible assembly (3,4,14) which supports a mattress. The mattress, which extends the length of the bed, rests on the raisable parts (8,15,21,24) which hold the flexible assembly to the desired height with a continuous ergonomic profile. The flexible assembly is formed from two lateral flexible bands (3) between which extend rigid flexible laths engaged in ferrules (4) fixed from place to place on the bands. The bands rest on a rigid plinth (2). The raisable parts are constituted by profiled supports (8,15) whose upper surface is rounded. Pivoting arms (12,18) support under the lower face of these profiled supports and raise them above the plinth so that the flexible bands are applied on and fit their rounded profile.

Abstract (fr)  
Le sommier est constitué d'un ensemble souple (3, 4, 14) servant de support à un matelas, qui s'étend sur toute la longueur du sommier, et qui repose sur des supports profilés (8, 15) dont la face supérieure est ergonomique et arrondie. Les supports soulèvent ledit ensemble au-dessus du socle rigide (2) pour que les bandes flexibles (3) de l'ensemble souple s'appliquent sur ces supports profilés et épousent leur profil arrondi. Application aux sommiers déformables. <IMAGE>

IPC 1-7  
**A47C 31/12; A47C 20/04**

IPC 8 full level  
**A47C 20/04** (2006.01); **A47C 31/12** (2006.01)

CPC (source: EP)  
**A47C 20/041** (2013.01); **A47C 31/123** (2013.01)

Citation (search report)  
• [A] DE 3842078 A1 19890727 - NIKO ANTRIEBSTECHNIK [DE]  
• [A] EP 0632985 A1 19950111 - PARAMOUNT BED KK [JP]

Cited by  
EP1661495A1; NO339707B1; FR2824714A1; FR2780256A1; EP1281339A1; FR2828077A1; FR2878133A1; NO336253B1; EP1114597A1; FR2803500A1; US11812857B2; US11395549B2

Designated contracting state (EPC)  
BE CH DE ES GB IT LI

DOCDB simple family (publication)  
**EP 0774223 A1 19970521; EP 0774223 B1 20020717**; DE 69622345 D1 20020822; DE 69622345 T2 20030213; ES 2180719 T3 20030216; FR 2740953 A1 19970516; FR 2740953 B1 19980123

DOCDB simple family (application)  
**EP 96402431 A 19961114**; DE 69622345 T 19961114; ES 96402431 T 19961114; FR 9513463 A 19951114