

Title (en)
SUPPORTING SPRING SYSTEM FOR MATTRESSES OR THE LIKE AND USE OF A SUPPORTING SPRING SYSTEM OF THIS TYPE

Title (de)
UNTERFEDERUNG FÜR MATRATZEN ODER DERGLEICHEN UND VERWENDUNG EINER SOLCHEN UNTERFEDERUNG

Title (fr)
SYSTEME DE RESSORTS INFÉRIEURS DESTINÉ À DES MATELAS OU SIMILAIRES ET UTILISATION D'UN TEL SYSTÈME DE RESSORTS INFÉRIEURS

Publication
EP 1432336 B1 20080618 (DE)

Application
EP 02777193 A 20020925

Priority
• DE 10148569 A 20011001
• EP 0210715 W 20020925

Abstract (en)
[origin: WO03028511A1] Supporting spring systems for mattresses or the like normally have slats (10) whose opposing ends are mounted on a frame by means of elastic mounting means (12). The prior art already enables a personalized adaptation of the mounting means (12), with regard to their spring properties, to the individual lying thereupon, however, this alone is not adequate for sick persons. The inventive supporting spring system is designed so that at least individual slats (10) can be individually raised and lowered in the areas of their mounting means (12) by means of fluid-actuable lifting elements. This enables the supporting spring system to execute any type of movement that is then transferred by the mattress to the individual lying thereon. These movements of the mattress enable, in particular, a decubitus prophylaxis or therapy. In addition, these movements are also suited for stimulating patients with certain clinical characteristics, particularly patients whose mobility is limited and thus suffer from lack of stimulus. The inventive supporting spring system can also be used in pain therapy.

IPC 8 full level
A47C 17/04 (2006.01); **A47C 23/06** (2006.01); **A61G 7/05** (2006.01)

CPC (source: EP US)
A47C 23/064 (2013.01 - EP US); **A47C 23/065** (2013.01 - EP US); **A47C 23/067** (2013.01 - EP US)

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

DOCDB simple family (publication)
WO 03028511 A1 20030410; AT E398404 T1 20080715; DE 10148569 A1 20030508; DE 50212389 D1 20080731; EP 1432336 A1 20040630; EP 1432336 B1 20080618; ES 2305308 T3 20081101; JP 2005503880 A 20050210; US 2004231051 A1 20041125; US 2006150327 A1 20060713

DOCDB simple family (application)
EP 0210715 W 20020925; AT 02777193 T 20020925; DE 10148569 A 20011001; DE 50212389 T 20020925; EP 02777193 A 20020925; ES 02777193 T 20020925; JP 2003531858 A 20020925; US 29248205 A 20051202; US 49008204 A 20040318