

Title (en)

TENSION RELIEF FOAM AND MATTRESS CONSTRUCTIONS

Title (de)

SPANNUNGSMINDERNDER SCHAUMSTOFF UND MATRATZENKONSTRUKTIONEN DAMIT

Title (fr)

CONSTRUCTIONS DE MOUSSE ET DE MATELAS DE RELÂCHEMENT DE TENSION

Publication

**EP 2706888 A4 20141001 (EN)**

Application

**EP 12782124 A 20120514**

Priority

- US 201161485364 P 20110512
- US 2012037766 W 20120514

Abstract (en)

[origin: WO2012155132A1] Engineered foam components for mattresses reduce tension forces in the foam and in the horizontal plane or block planar pieces, and improve the conformance and motion separation characteristics of foam support systems. The tension relief foam pad is a generally rectangular piece of foam having a top surface and a bottom surface. The length and width measurements of engineered foam pieces are substantially equal to that of a mattress with which it is to be used. Depending on the arrangement of the tension relief foam pad within the mattress construction, either the top or bottom surface contains a plurality of continuous cuts, slits or openings arranged in a checkerboard or other patterns with an opposite planar uncut surface.

IPC 8 full level

**A47C 27/05** (2006.01)

CPC (source: EP US)

**A47C 27/056** (2013.01 - EP US); **A47C 27/064** (2013.01 - EP US)

Citation (search report)

- [I] US 2007044245 A1 20070301 - BRYANT STEVE [US], et al
- [I] US 7861342 B1 20110104 - HUANG YUNG-LIN [TW]
- [I] US 1906893 A 19330502 - SAMUEL YOUNG, et al
- [XI] US 2010325806 A1 20101230 - LETTON ALAN [US], et al
- [A] US 2011099722 A1 20110505 - MORET DAVID MICHAEL [US], et al
- See references of WO 2012155132A1

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

DOCDB simple family (publication)

**WO 2012155132 A1 20121115**; CA 2835841 A1 20121115; CN 103702591 A 20140402; EP 2706888 A1 20140319; EP 2706888 A4 20141001; JP 2014512936 A 20140529; US 2012284927 A1 20121115

DOCDB simple family (application)

**US 2012037766 W 20120514**; CA 2835841 A 20120514; CN 201280034648 A 20120514; EP 12782124 A 20120514; JP 2014510533 A 20120514; US 201213470903 A 20120514