

Title (en)
ADJUSTABLE SPRING MATTRESS

Title (de)
ANPASSBARE FEDERMATRATZE

Title (fr)
MATELAS À RESSORT RÉGLABLE

Publication
EP 3595492 A4 20201014 (EN)

Application
EP 18768236 A 20180312

Priority
• US 201762470640 P 20170313
• US 2018021917 W 20180312

Abstract (en)
[origin: US2018255937A1] Various systems and methods for adjusting the firmness of a spring mattress are described herein. Inflation elements having fingers may be coupled with a spring layer of a mattress to provide for inflating or deflating the fingers in the interstitial spaces defined by a group of springs of the mattress. Increasing the fluid pressure inside the fingers increases the lateral pressure on the springs. The increase in lateral pressure in turn increases the force required to compress the springs, ultimately resulting in increasing the firmness of the mattress. Conversely, decreasing the fluid pressure inside the fingers decreases the lateral pressure on the springs, which decreases the firmness of the mattress.

IPC 8 full level
A47C 23/047 (2006.01); **A47C 27/08** (2006.01); **A47C 27/10** (2006.01)

CPC (source: EP US)
A47C 23/047 (2013.01 - EP); **A47C 27/056** (2013.01 - EP US); **A47C 27/061** (2013.01 - EP US); **A47C 27/062** (2013.01 - EP US);
A47C 27/064 (2013.01 - EP US); **A47C 27/082** (2013.01 - EP US); **A47C 27/083** (2013.01 - EP US); **A47C 27/088** (2013.01 - EP US);
A47C 27/10 (2013.01 - EP US)

Citation (search report)
• [XY] US 5113539 A 19920519 - STRELL BRIAN M [US]
• [X] US 5105488 A 19920421 - HUTCHINSON RONALD G [US], et al
• [X] US 2008109965 A1 20080515 - MOSSBECK NIELS S [US]
• [Y] US 5027454 A 19910702 - PENG JUNG-CHING [TW]
• [Y] US 3610289 A 19711005 - MOSS TREVOR F
• See references of WO 2018169822A1

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)
US 2018255937 A1 20180913; EP 3595492 A1 20200122; EP 3595492 A4 20201014; WO 2018169822 A1 20180920

DOCDB simple family (application)
US 201815917938 A 20180312; EP 18768236 A 20180312; US 2018021917 W 20180312