

Title (en)

Magnetic levitation cushion and magnetic levitation device thereof

Title (de)

Magnetisches Schwebekissen und magnetische Schwebevorrichtung dafür

Title (fr)

Coussinet de lévitation magnétique et son dispositif de lévitation magnétique

Publication

**EP 2036461 A1 20090318 (EN)**

Application

**EP 08014831 A 20080821**

Priority

- US 90050007 A 20070912
- TW 97106171 A 20080222

Abstract (en)

A magnetic levitation cushion has multiple magnetic levitation devices (1) being assembled with at least one bracket (2). Each magnetic levitation device (1) has a housing (10), a fixed magnet (14), a movable magnet (15), a shaft (16) and a primary pad (17). The fixed magnet (14) is mounted securely in the housing (10). The movable magnet (15) is mounted slidably in the housing (10) and faces the fixed magnet (14) with a same magnetic pole. The shaft (16) is mounted slidably through the housing (10) and has a bottom end attached to the movable magnet (15). The primary pad (17) is mounted on a top end of the shaft (16). The magnetic levitation cushion is used for upholstered furniture such as chairs, beds and sofas and does not suffer metal fatigue or material hardening problems and may be cleaned, rearranged and recycled effectively.

IPC 8 full level

**A47C 23/00** (2006.01)

CPC (source: EP)

**A47C 7/144** (2018.07); **A47C 23/002** (2013.01); **A47C 31/003** (2013.01)

Citation (search report)

- [A] DE 4305066 A1 19930722 - VOELKENING RALF [DE]
- [A] DE 2738529 A1 19790301 - THIMM HARRY
- [A] US 3604027 A 19710914 - KONNO SHUNICHI
- [A] US 3467973 A 19690923 - MINNICK CHRIS A
- [A] US 2004231057 A1 20041125 - SABIN JEFFREY M [US]
- [A] DE 10330644 B3 20041230 - FEN GMBH SCHLAFSYSTEME [DE]
- [A] US 2002163114 A1 20021107 - LOBRY JACQUES [FR], et al

Cited by

FR3066089A1; CN112245127A; CN109865277A; WO2020136395A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2036461 A1 20090318**; JP 2009068704 A 20090402

DOCDB simple family (application)

**EP 08014831 A 20080821**; JP 2008227339 A 20080904