

Title (en)

Device and process for detection of collisions for furniture

Title (de)

Vorrichtung und Verfahren zur Erkennung von Kollisionen bei Möbeln

Title (fr)

Dispositif et procédé de détection de collisions pour les meubles

Publication

EP 1891872 B1 20100602 (DE)

Application

EP 06017650 A 20060824

Priority

EP 06017650 A 20060824

Abstract (en)

[origin: EP1891872A1] The device has an automatic drive mechanism provided for moving the movable portions e.g. height-adjustable table top (1), and a control device is adapted to control the drive mechanism. A sensor (4) is adapted to detect a collision during the movement of the movable portion with an obstacle and to transmit to the control device. The sensor is adapted to detect the bending change of the movable portion. The sensor contains a piezoelectric material, and a piezoelectric diaphragm is provided as the sensor. An independent claim is also included for a procedure for detecting collision with automatically movable portions of furniture with obstacles.

IPC 8 full level

A47B 9/00 (2006.01); **B25H 1/00** (2006.01)

CPC (source: EP US)

A47B 9/00 (2013.01 - EP US); **A47B 2200/006** (2013.01 - EP US)

Citation (examination)

- DE 19956009 A1 20010621 - CONTINENTAL AG [DE]
- PROF. DR. ING. ERWIN ROEDER: "Werkstoffkunde 1, Vorlesungsskript", 1987, LEHRSTUHL FÜR WERKSTOFFKUNDE UND MECHANISCHE TECHNOLOGIE UNIVERSITÄT KAISERSLAUTERN, KAISERSLAUTERN

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DE102009058422A1; DE202010005411U1; EP2497386A1; EP3967181A1; DE102009058422B4; EP2583586A1; WO2019149296A1; US9236817B2; WO2021151677A1; WO2009146709A3; WO2010036174A1; WO2011083019A1; US9326597B2; EP2326212A4

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DOCDB simple family (publication)

EP 1891872 A1 20080227; **EP 1891872 B1 20100602**; AT E469577 T1 20100615; DE 502006007106 D1 20100715; DK 1891872 T3 20100719; US 2008289544 A1 20081127; US 7661292 B2 20100216

DOCDB simple family (application)

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