

Title (en)

SEATING DEVICE WITH A GUIDE SPRING

Title (de)

SITZVORRICHTUNG MIT EINER FEDERVORRICHTUNG

Title (fr)

DISPOSITIF DE SIEGE AVEC UN DISPOSITIF A RESSORT

Publication

EP 3574805 B1 20210623 (DE)

Application

EP 19020351 A 20190528

Priority

- US 201815990894 A 20180529
- US 201762514181 P 20170602

Abstract (en)

[origin: US2018344033A1] A guide spring for a seating device has an inner portion, an outer portion, and a spiral coiled portion extending more than one convolution between the inner portion and the outer portion. The inner portion is firmly attached to a rod and the outer portion is firmly attached to a body. The guide spring thereby secures a radial position of the rod within the body, allowing the rod to move axially relative to the body when a load is placed onto the seating device. When in use, the guide spring deforms from a flat spiral shape to a conical spiral shape with axial movement of the rod relative to the body.

IPC 8 full level

A47C 7/14 (2006.01); **A47C 3/025** (2006.01); **A47C 9/00** (2006.01)

CPC (source: EP US)

A47C 3/0252 (2013.01 - EP US); **A47C 3/026** (2013.01 - US); **A47C 3/22** (2013.01 - US); **A47C 3/245** (2013.01 - US); **A47C 7/004** (2013.01 - US); **A47C 7/006** (2013.01 - US); **A47C 7/14** (2013.01 - EP); **A47C 9/002** (2013.01 - EP)

Cited by

KR102506795B1

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 10765214 B2 20200908; **US 2018344033 A1 20181206**; CA 3006737 A1 20181202; EP 3574805 A1 20191204; EP 3574805 B1 20210623

DOCDB simple family (application)

US 201815990894 A 20180529; CA 3006737 A 20180530; EP 19020351 A 20190528