

Title (en)  
Fastening device

Title (de)  
Eintreibgerät

Title (fr)  
Appareil d'enfoncement

Publication  
**EP 2524770 B1 20190814 (DE)**

Application  
**EP 12164425 A 20120417**

Priority  
DE 102011076087 A 20110519

Abstract (en)  
[origin: EP2524770A2] The apparatus has a gas spring (8) with a resiliently compressible gas volume (9). The gas spring is tensioned via a tensioning mechanism (10) by a rotary motor i.e. electromotor (16), to accelerate a setting piston (5) into a setting direction according to release of the gas spring from a tensioned state. A part of the tensioning mechanism is arranged within the gas volume of the gas spring. The motor is arranged outside the gas volume. The tensioning mechanism is connected with the motor via a rotatable shaft (14), and a shaft seal (15) seals the gas volume, and is arranged at the shaft.

IPC 8 full level  
**B25C 1/04** (2006.01); **B25C 1/06** (2006.01)

CPC (source: EP US)  
**B25C 1/04** (2013.01 - EP US); **B25C 1/047** (2013.01 - US); **B25C 1/06** (2013.01 - EP US)

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)

**EP 2524770 A2 20121121; EP 2524770 A3 20180214; EP 2524770 B1 20190814;** AU 2012202800 A1 20121206; AU 2012202800 B2 20140501;  
CA 2776014 A1 20121119; CN 102794744 A 20121128; CN 102794744 B 20180608; DE 102011076087 A1 20121122;  
JP 2012240193 A 20121210; JP 6075909 B2 20170208; TW 201304913 A 20130201; TW I611878 B 20180121; US 2012292064 A1 20121122;  
US 2016368127 A1 20161222; US 9463561 B2 20161011; US 9776312 B2 20171003

DOCDB simple family (application)

**EP 12164425 A 20120417;** AU 2012202800 A 20120511; CA 2776014 A 20120503; CN 201210149630 A 20120515;  
DE 102011076087 A 20110519; JP 2012106632 A 20120508; TW 101113740 A 20120418; US 201213473854 A 20120517;  
US 201615255349 A 20160902