

Title (en)
FASTENING DEVICE

Title (de)
EINTREIBVORRICHTUNG

Title (fr)
DISPOSITIF D'ENFORCEMENT

Publication
EP 2582491 B1 20201216 (DE)

Application
EP 11726406 A 20110615

Priority
• DE 102010030098 A 20100615
• EP 2011059981 W 20110615

Abstract (en)
[origin: EP2397267A2] The device has an energy transmission element for transmitting energy to a fastening part, where the transmission element is moved between an original position and a setting position along a setting axle. A clutch device temporarily holds the transmission element in the original position, and an energy transmission unit i.e. piston (100), has a linearly movable linear output i.e. spindle nut, for moving the transmission element from the setting position to the original position in the clutch device. A mechanical energy storage i.e. spring (200), stores mechanical energy.

IPC 8 full level
B25C 1/06 (2006.01)

CPC (source: EP US)
B25C 1/00 (2013.01 - US); **B25C 1/06** (2013.01 - EP US); **B25F 5/006** (2013.01 - EP US)

Citation (examination)
US 2009179062 A1 20090716 - SHIMA YUKIHIRO [JP], et al

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 2397267 A2 20111221; EP 2397267 A3 20120606; EP 2397267 B1 20200304; CN 102284928 A 20111221; CN 102284928 B 20160518; CN 102947054 A 20130227; CN 102947054 B 20160406; DE 102010030098 A1 20111215; EP 2582490 A2 20130424; EP 2582490 B1 20220706; EP 2582491 A2 20130424; EP 2582491 B1 20201216; EP 2582492 A2 20130424; EP 2582492 B1 20150520; ES 2538205 T3 20150618; ES 2923781 T3 20220930; JP 2012000762 A 20120105; JP 2013532073 A 20130815; JP 5833348 B2 20151216; JP 5918755 B2 20160518; TW 201206648 A 20120216; TW I595981 B 20170821; US 2011303726 A1 20111215; US 2013082081 A1 20130404; US 2013082084 A1 20130404; US 2013087594 A1 20130411; US 9498872 B2 20161122; US 9527197 B2 20161227; US 9566700 B2 20170214; WO 2011157769 A2 20111222; WO 2011157769 A3 20120607; WO 2011157775 A2 20111222; WO 2011157775 A3 20131003; WO 2011157776 A2 20111222; WO 2011157776 A3 20120628

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EP 11165979 A 20110513; CN 201110157103 A 20110613; CN 201180029250 A 20110615; DE 102010030098 A 20100615; EP 11725098 A 20110615; EP 11726406 A 20110615; EP 11726407 A 20110615; EP 2011059975 W 20110615; EP 2011059981 W 20110615; EP 2011059982 W 20110615; ES 11725098 T 20110615; ES 11726407 T 20110615; JP 2011132733 A 20110614; JP 2013514711 A 20110615; TW 100117181 A 20110517; US 201113158744 A 20110613; US 201113703857 A 20110615; US 201113703863 A 20110615; US 201113703870 A 20110615