Title (en)

fastener driving tool

Title (de)

Eintreibvorrichtung

Title (fr)

outil d'enfoncement d'éléments de fixation

Publication

EP 2397270 A3 20131225 (DE)

Application

EP 11166013 A 20110513

Priority

DE 102010030088 A 20100615

Abstract (en)

[origin: EP2397270A2] The device has a spring (200) e.g. helical spring, storing mechanical energy, an energy transfer member movable between an original position and a setting position for transmission of energy from the spring to a fastening part. An energy transmission unit i.e. piston, transmits energy from a power supply to the spring. A force transmission device i.e. roller traction unit (260), transmits force from the transmission unit to the spring. The force transmission device and the energy transmission unit are mutually impacted with force while the transfer member transfers energy to the part. The energy transmission unit is designed as a linear output unit i.e. spindle nut, and/or a rotary drive or piston (100), and comprises a tape (270) that is made of core of plastic fibers.

IPC 8 full level

B25C 1/06 (2006.01)

CPC (source: EP US)

B25C 1/003 (2013.01 - EP US); **B25C 1/008** (2013.01 - EP US); **B25C 1/06** (2013.01 - EP US)

Citation (search report)

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- [XY] EP 1980369 A2 20081015 - HILTI AG [LI]
- [X] US 3215864 A 19651102 - DOYLE RICHARD H, et al
- [XY] WO 2008123485 A1 20081016 - HITACHI KOKI KK [JP], et al
- [A] EP 2177321 A1 20100421 - HILTI AG [LI]

Cited by

EP3501751A1; WO2019121027A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2397270 A2 20111221; **EP 2397270 A3 20131225**; **EP 2397270 B1 20141203**; CN 102284942 A 20111221; CN 102284942 B 20160914; DE 102010030088 A1 20111215; ES 2526768 T3 20150115; JP 2012000763 A 20120105; JP 5893855 B2 20160323; TW 201201975 A 20120116; TW I580536 B 20170501; US 2011303732 A1 20111215; US 8978953 B2 20150317

DOCDB simple family (application)

EP 11166013 A 20110513; CN 201110156416 A 20110613; DE 102010030088 A 20100615; ES 11166013 T 20110513; JP 2011132734 A 20110614; TW 100117180 A 20110520; US 201113158777 A 20110613