

Title (en)
fastener driving tool

Title (de)
Eintreibvorrichtung

Title (fr)
outil d'enfoncement d'éléments de fixation

Publication
EP 2397261 A3 20130904 (DE)

Application
EP 11165944 A 20110513

Priority
DE 102010030118 A 20100615

Abstract (en)
[origin: EP2397261A2] The method involves providing a mechanical energy storage i.e. helical spring, for storage of mechanical energy. An energy transmission unit i.e. piston, is moved between an initial position and a setting position for transmission of the energy from the mechanical energy storage to a fastening element e.g. nut. The energy transmission unit is provided with an electric motor (480) i.e. brushless direct current motor, that is operated free of load, where operating current is regulated in a tensioning direction for transferring energy of the mechanical energy storage. An independent claim is also included for a device for driving a fastening element e.g. nut or bolt, into a substrate.

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); **Y10T 29/49833** (2015.01 - EP US)

Citation (search report)
• [A] EP 1935572 A1 20080625 - HILTI AG [LI]
• [A] EP 2177321 A1 20100421 - HILTI AG [LI]

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 2397261 A2 20111221; EP 2397261 A3 20130904; EP 2397261 B1 20141015; CN 102284932 A 20111221; DE 102010030118 A1 20111215; ES 2525155 T3 20141218; JP 2012000757 A 20120105; JP 5808956 B2 20151110; TW 201201977 A 20120116; TW I610769 B 20180111; US 2011303724 A1 20111215; US 9731408 B2 20170815

DOCDB simple family (application)
EP 11165944 A 20110513; CN 201110159362 A 20110614; DE 102010030118 A 20100615; ES 11165944 T 20110513; JP 2011132725 A 20110614; TW 100117378 A 20110518; US 201113158799 A 20110613