

Title (en)
Two-stage locking electric screwdriver

Title (de)
Elektrischer Schraubendreher mit zwei Sperrstufen

Title (fr)
Tournevis électrique de verrouillage à deux crans

Publication
EP 2954982 A1 20151216 (EN)

Application
EP 14171677 A 20140609

Priority
EP 14171677 A 20140609

Abstract (en)
A two-stage locking electric screwdriver (1), with its main improved features as follow: the electric screwdriver has pre-locking and locking functions; the torque settings of the electric screwdriver can be easily modulated, and meanwhile the torque accuracy and energy efficiency can be improved; the torque modulation type is external modulation, so that the torque modulation can be carried out externally and even the torsion spring can be replaced. Meanwhile, the component structures inside the electric screwdriver (1) is improved through a design that the motor (20) directly drives the clutch (32) and then drive the screwdriver head unit (40), and that an internal gear clutch (31) is used to replaced the gear unit and clutch unit, so that the number of parts is dramatically reduced to save production cost. During general rotation, the electric screwdriver (1) will not drive the clutch unit (32), and when the torque jumps to the set value, the internal gear clutch (31) rotates and generates a torque.

IPC 8 full level
B25B 21/00 (2006.01); **B25B 23/14** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP)
B25B 21/00 (2013.01); **B25B 23/141** (2013.01)

Citation (search report)
• [XY] US 2011232933 A1 20110929 - KONDO TOMOYUKI [JP], et al
• [Y] US 2011139478 A1 20110616 - BRENNENSTUHL JENS [DE], et al
• [Y] FR 2777216 A1 19991015 - ASS LEONARD DE VINCI [FR]

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

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