

Title (en)
TOOL FOR STRIKING FASTENER

Title (de)
WERKZEUG FÜR SCHLAGSCHRAUBER

Title (fr)
OUTIL DE FRAPPE D'ÉLÉMENT DE FIXATION

Publication
EP 3984703 A1 20220420 (EN)

Application
EP 19932313 A 20191129

Priority
• CN 201910499998 A 20190611
• CN 2019122035 W 20191129

Abstract (en)
Disclosed is a tool for striking a fastener, belonging to the technical field of electric tools, the tool comprising an energy storage mechanism (2), composed of a cylinder (2-2) and a piston (2-1), in a housing (1), wherein the piston (2-1) is connected to a striker (4) extending to a gun nozzle (3), a holding handle (5) is provided on one side of the cylinder (2-2), a nail box (6) is provided on one side of the gun nozzle (3), and a lifting mechanism (7) is provided between the holding handle (5) and the nail box (6); the lifting mechanism (7) includes the striker (4) having meshing teeth distributed at intervals, and a driving wheel (9) having meshing cylinders circumferentially distributed at intervals, with the driving wheel (9) being in transmission connection with an electric motor (8); gear shifting fingers (9-3) radially extend out of opposite sides of the driving wheel (9) at a preset arc length; and a side surface, opposite the meshing teeth, of the striker (4) is provided with an advance convex pin (4-1) capable of meshing with the gear shifting fingers (9-3). Before the meshing cylinder is in lifting engagement with the meshing teeth, the gear shifting fingers (9-3) turn to a meshing and gear shifting position in front of the advance convex pin (4-1); and when the meshing cylinder is in lifting engagement with the meshing teeth, the gear shifting fingers (9-3) turn to shift the advance convex pin (4-1) in order to enable the meshing teeth to be located at a position meshing with the meshing cylinder. The tool has a simple structure, and effectively prevents interference between the re-lifting meshing of the driving wheel and the meshing of the striker.

IPC 8 full level
B25C 1/06 (2006.01)

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

Designated contracting state (EPC)
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