

Title (en)  
Electrical motor driven nail gun

Title (de)  
Elektrische motorbetriebene Nagelpistole

Title (fr)  
Cloueuse à moteur électrique

Publication  
**EP 2230050 A1 20100922 (EN)**

Application  
**EP 09153570 A 20090225**

Priority  
EP 09153570 A 20090225

Abstract (en)  
The invention is a portable electric power tool, specifically directed to driving a fastener into a substrate as an electric motor driven nail gun. It has a bracket (20), switch, control unit (18), magazine (201) and nail push system, also a motor (1) which derives its power from a power supply (17) or rechargeable batteries. The motor drive uses a flywheel (9) as a speed reduction mechanism, a main characteristic is that the drive unit (11) of the driving mechanism is connected to a pitman (8) by a pin axis (112) on one end. The pitman is connected by the pin axis (85) to the driving block which does the arc movement. The end of the drive unit (11) is connected with a spring (12) to the long board (111) along the long slot in a sliding movement. The clutching mechanism of the speed reduction mechanism controls the anvil to do linear movement driven by the rotational motion of the flywheel. The invention can be slim, simply and easily assembled, and provide a powerful impacting force. The clutch bar (6) of the driving mechanism has an outer bulge (61) and inner bulge (62), it controls the tension spring which makes the drive unit recover after impacting nails, without needing any memory of the rotating state. The apparatus is safe, steady and practical.

IPC 8 full level  
**B25C 1/06** (2006.01)

CPC (source: EP)  
**B25C 1/06** (2013.01)

Citation (applicant)  
• GB 2000716 A 19790117 - DUO FAST CORP  
• US 6604666 B1 20030812 - PEDICINI CHRISTOPHER S [US], et al  
• US 6705503 B1 20040316 - PEDICINI CHRISTOPHER S [US], et al

Citation (search report)  
• [X] US 6971567 B1 20051206 - CANNALIATO MICHAEL F [US], et al  
• [X] US 2004232194 A1 20041125 - PEDICINI CHRISTOPHER S [US], et al

Cited by  
EP2789427A1; EP2979821A1; US2009250500A1; US8534527B2; US8939342B2; US9399281B2; US11179836B2; WO2023071258A1; US11229995B2; US9216502B2; US9346158B2; US10022848B2; US10766128B2; TWI670150B

Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2230050 A1 20100922**

DOCDB simple family (application)  
**EP 09153570 A 20090225**