

Title (en)

Manual machine tool with crank driven air spring striking mechanism

Title (de)

Handwerkzeugmaschine mit kurbelgetriebenem Luftfederschlagwerk

Title (fr)

Machine-outil manuelle dotée d'un mécanisme de percussion pneumatique entraîné par manivelle

Publication

EP 1864760 A3 20130109 (DE)

Application

EP 07109179 A 20070530

Priority

DE 102006000279 A 20060608

Abstract (en)

[origin: EP1864760A2] A pneumatic spring striking mechanism generates axial striking in an impact/striking piston that moves to and fro along a striking axis. It is also driven via a crank pin (4) in an eccentric plate/cam (5) set up so as to rotate. Regarding the axis (E) of the eccentric plate/cam, the distribution in mass for the eccentric plate/cam has an unbalanced mass (U).

IPC 8 full level

B23Q 11/00 (2006.01); **B25D 11/12** (2006.01); **B25D 17/24** (2006.01)

CPC (source: EP US)

B25D 11/125 (2013.01 - EP US); **B25D 17/24** (2013.01 - EP US); **B25D 2211/006** (2013.01 - EP US); **B25D 2217/0088** (2013.01 - EP US); **B25D 2250/245** (2013.01 - EP US)

Citation (search report)

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- [A] WO 2004082897 A1 20040930 - BLACK & DECKER INC [US], et al
- [A] US 3305031 A 19670221 - BEZ RENATUS S, et al
- [A] DE 202004020770 U1 20060105 - BLACK & DECKER INC [US]

Cited by

CN102510791A; WO2011035955A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1864760 A2 20071212; **EP 1864760 A3 20130109**; DE 102006000279 A1 20071213; JP 2007326215 A 20071220; US 2008047720 A1 20080228

DOCDB simple family (application)

EP 07109179 A 20070530; DE 102006000279 A 20060608; JP 2007151575 A 20070607; US 81131807 A 20070607