

Title (en)
Rotary hammer

Title (de)
Bohrhammer

Title (fr)
Marteau rotatif

Publication
EP 1281483 B1 20080423 (DE)

Application
EP 01118236 A 20010730

Priority
EP 01118236 A 20010730

Abstract (en)
[origin: EP1281483A2] Hammer drill or chisel hammer comprises a tool spindle (2), a drive motor (4), and a striking device positioned in a gearing housing (5) and having a crank mechanism (7) with a crank wheel (8) rotating about an axis. The crank wheel has a crank wheel hub (10) and a crank journal (11). A drive (12) positioned between the crank wheel hub and the drive motor acts via the drive motor on the crank mechanism. The drive consists of a conical gear wheel (15) fixed on the crank wheel hub and a conical pinion gear (16) engaging in the conical gear wheel whose rotation axes (17, 18) lie at an angle to each other. The crank wheel is over-mounted by a radial shaft bearing (20) so that it moves in a longitudinal direction restricted by an axial bearing (21) in one direction and by the conical pinion gear in the opposite direction. Preferred Features: The radial shaft bearing comprises at least one, especially a pair of needle bearings (22).

IPC 8 full level
B25D 16/00 (2006.01); **B23B 45/16** (2006.01); **B25D 11/12** (2006.01)

CPC (source: EP)
B25D 11/12 (2013.01); **B25D 16/00** (2013.01)

Cited by
US2022324090A1; US11858100B2; DE102007062248A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1281483 A2 20030205; **EP 1281483 A3 20030305**; **EP 1281483 B1 20080423**; DE 50113888 D1 20080605

DOCDB simple family (application)
EP 01118236 A 20010730; DE 50113888 T 20010730