

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)  
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**EP 1281483 A2 20030205; EP 1281483 A3 20030305; EP 1281483 B1 20080423; DE 50113888 D1 20080605**

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