

Title (en)  
Impact tool

Title (de)  
Schlagwerkzeug

Title (fr)  
Outil à percussion

Publication  
**EP 2130651 B1 20141126 (EN)**

Application  
**EP 08711844 A 20080222**

Priority  
• JP 2008053076 W 20080222  
• JP 2007079708 A 20070326  
• JP 2007079709 A 20070326

Abstract (en)  
[origin: EP2130651A1] Vibration entailed during a striking operation of an impact tool is reduced thereby achieving improved operability and workability. In a hammer drill (1), between a reduction shaft (32) configured to transmit a rotatory motion to a tool holder (7) and an output shaft (9), an intermediate reduction shaft (31) configured to reduce a rotation speed of a rotatory motion of the output shaft (9) and transmit a speed-reduced rotatory motion to the reduction shaft (32) is disposed in a position frontward of the output shaft (9) and parallel to the output shaft (9), so that the reduction shaft (32) is disposed frontward of the intermediate reduction shaft (31), whereas a motor (8) is disposed in a position such that the output shaft (9) protrudes upward beyond a third gear (37) of the reduction shaft (32), whereby the motor (8) is positioned closer to the axis of the tool holder (7). Thus, the barycenter of the hammer drill (1) is in a position shifted frontward and upward, with the result that the moment to be produced around a tip end of a bit (20) in the hammer drill (1) during a drilling or other operation will become small.

IPC 8 full level  
**B25D 16/00** (2006.01); **B25D 17/24** (2006.01); **B25D 17/26** (2006.01)

CPC (source: EP)  
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Cited by  
US9533406B2; US2016271779A1; CN105722645A; US2013081840A1; EP2578362A3; EP2871028A1

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