

Title (en)
HAMMER DRILL HAVING THREE OPERATING MODES

Title (de)
BOHRHAMMER MIT DREI BETRIEBSARTEN

Title (fr)
MARTEAU PERFORATEUR AVEC TROIS MODES DE FONCTIONNEMENT

Publication
EP 1957240 B1 20180411 (DE)

Application
EP 06793789 A 20060925

Priority

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- DE 102005056205 A 20051125

Abstract (en)
[origin: WO2007060043A1] A hammer drill (10), consisting of a housing (12), accommodating the parts mentioned below and assembled in particular from half shells (13, 14), a motor (16) with an on/off switch (18) and with a motor shaft (22) with motor pinion (24), a gear unit (26) with an intermediate shaft (28), with a drive gear (30), with a splined driving shaft (32), with a shifting sleeve (34) and with an output gear (35), a percussion mechanism (36), in particular with a wobble plate (40), with a wobble gear (38) with wobble finger (42), and with a percussion element (44), an output shaft (46) with a drive gear (48), and a drill chuck (50), wherein the motor (16) meshes with the drive gear (30) of the intermediate shaft (28) via its motor pinion (24), wherein the rotary driving of the wobble plate (40) with the intermediate shaft (28) can be set or stopped via coupling or release of the shifting sleeve (34), in particular with the splined driving shaft, preferably by displacing with shifting means (52), and wherein the rotary driving of the output shaft (46) with the intermediate shaft (28) can be set or stopped via separate means, in particular independently of the shifting sleeve (34), can be produced cost-effectively and works at a high efficiency by virtue of the fact that a second shifting sleeve (134) serves to set the rotation of the output shaft (46), said shifting sleeve (134) enclosing the splined driving shaft (32) and/or the output gear (35) in a positive-locking and axially displaceable shiftable manner.

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