

Title (en)
HAND-OPERATED DEVICE AND TOOLS WHICH CAN BE CONNECTED TO IT

Title (de)
HANDGEFÜHRTES GERÄT UND DAMIT VERBINDBARE WERKZEUGE

Title (fr)
APPAREIL MANUEL ET OUTILS QUI PEUVENT Y ETRE RELIES

Publication
EP 1983880 B1 20090708 (DE)

Application
EP 07701299 A 20070205

Priority

- AT 2007000054 W 20070205
- AT 812006 U 20060203
- AT 1712006 A 20060203

Abstract (en)
[origin: WO2007087666A1] The invention relates to a hand-operated device (1), comprising a housing (2) and a drive part (3) with a drive means (5) which can be moved relative to the housing (2) by means of a motor (7), and comprising a tool (4) which can be detachably connected to the drive means (5). In order to be able to use the device (1) universally by virtue of fitting various tools (4, 4', 4'', 4''') and in each case providing a different type of movement of the latter, the invention makes provision for the drive means (5) to be eccentrically mounted in the drive part (3) with an eccentricity (e) and for a fixing mount (13) for possible interaction with a tool (4, 4'') to be arranged on the housing (2) at a distance from the drive means (5).

IPC 8 full level
A47L 23/06 (2006.01)

CPC (source: EP KR US)
A47L 11/06 (2013.01 - EP US); **A47L 11/4038** (2013.01 - EP US); **A47L 11/4069** (2013.01 - EP US); **A47L 23/04** (2013.01 - KR);
A47L 23/06 (2013.01 - EP KR US); **A61H 7/005** (2013.01 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007087666 A1 20070809; AT E435609 T1 20090715; BR PI0707470 A2 20110503; CA 2640951 A1 20070809;
DE 212007000004 U1 20071115; DE 502007001035 D1 20090820; DK 1983880 T3 20091116; EP 1983880 A1 20081029;
EP 1983880 B1 20090708; ES 2329950 T3 20091202; JP 2009525078 A 20090709; JP 4960384 B2 20120627; KR 20080094091 A 20081022;
PL 1983880 T3 20101029; PT 1983880 E 20091015; RU 2008135705 A 20100310; RU 2415639 C2 20110410; SI 1983880 T1 20091231;
US 2010024139 A1 20100204; US 8185992 B2 20120529

DOCDB simple family (application)
AT 2007000054 W 20070205; AT 07701299 T 20070205; BR PI0707470 A 20070205; CA 2640951 A 20070205; DE 212007000004 U 20070205;
DE 502007001035 T 20070205; DK 07701299 T 20070205; EP 07701299 A 20070205; ES 07701299 T 20070205; JP 2008552639 A 20070205;
KR 20087021555 A 20080902; PL 07701299 T 20070205; PT 07701299 T 20070205; RU 2008135705 A 20070205; SI 200730078 T 20070205;
US 79441007 A 20070205