

Title (en)
HAND-HELD MACHINE TOOL

Title (de)
HANDWERKZEUGMASCHINE

Title (fr)
MACHINE PORTABLE

Publication
EP 1412128 B1 20070905 (DE)

Application
EP 02745060 A 20020517

Priority
• DE 0201791 W 20020517
• DE 10135251 A 20010719

Abstract (en)
[origin: DE10135251A1] The hand tool has a housing (10) and motor (12) with drive shaft (14) and abrading plate (16) with shaft housing (18) and bearing housing (20) with extensor sleeve (2). The extensor sleeve is position in an axial direction and the shaft housing is connected to the abrading plate housing (24) at an axial distance (26) of 5-15mm. A flange (28) supports a housing part (30).

IPC 8 full level
B24B 23/03 (2006.01); **B24B 23/04** (2006.01)

CPC (source: EP US)
B24B 23/04 (2013.01 - EP US)

Designated contracting state (EPC)
CH DE FR GB LI

DOCDB simple family (publication)
DE 10135251 A1 20030206; CN 100431792 C 20081112; CN 1464811 A 20031231; DE 50210856 D1 20071018; EP 1412128 A1 20040428; EP 1412128 B1 20070905; JP 2004521769 A 20040722; JP 4431385 B2 20100310; US 2004011545 A1 20040122; US 6942558 B2 20050913; WO 03011519 A1 20030213

DOCDB simple family (application)
DE 10135251 A 20010719; CN 02802429 A 20020517; DE 0201791 W 20020517; DE 50210856 T 20020517; EP 02745060 A 20020517; JP 2003516739 A 20020517; US 34460203 A 20030213