

Title (en)  
Hand tool

Title (de)  
Handwerkzeug

Title (fr)  
Outil à main

Publication  
**EP 1541293 B1 20070523 (DE)**

Application  
**EP 04106415 A 20041209**

Priority  
DE 10358027 A 20031211

Abstract (en)  
[origin: EP1541293A1] The hammer drill has a housing (2) with motor (3), drive shaft (4), ventilator (21), transmission (5), intakes (11,13,15) and exhausts. The ventilator has a rotor (23) with blades (24), and an additional bearing plate (22) on the side of the rotor facing the transmission. The plate has several slots (26), positioned concentrically to a passage for the drive shaft. The side of the plate facing the rotor has a labyrinth defined by a ring. The transmission is a belt drive.

IPC 8 full level  
**B25F 5/00** (2006.01)

CPC (source: EP)  
**B25F 5/008** (2013.01)

Cited by  
EP2923802A1; EP2191940A1; CN102947036A; CN101559588A; RU2510327C2; GB2459191A; GB2459191B; EP3685945A1; US11465266B2; US8479840B2; WO2013136788A1; WO2015144664A1; WO2007077050A1; WO2011160871A1; US9808872B2; US10201865B2

Designated contracting state (EPC)  
CH DE ES FR IT LI

DOCDB simple family (publication)  
**EP 1541293 A1 20050615; EP 1541293 B1 20070523**; DE 10358027 A1 20050721; DE 502004003870 D1 20070705; ES 2286564 T3 20071201

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