

Title (en)

Electric hand tool with several speed ranges

Title (de)

Elektrowerkzeug mit mehrstufigem Getriebe

Title (fr)

Outil à main électrique avec transmission à plusieurs étages

Publication

**EP 1364752 B1 20080220 (DE)**

Application

**EP 03101261 A 20030507**

Priority

DE 10222824 A 20020521

Abstract (en)

[origin: EP1364752A2] The device has a multi-stage gearbox (1) in a housing (6), a shift device (2) for changing between gears with a spring-loaded sliding shift element (3) movable into several gears and a shift fork (5a,5b) acted upon by the shift element and acting on an axially movable shift wheel. The gearbox has several axially movable shift wheels (4a,4b), each of which interacts with a shift fork. The shift forks can be operated by the sliding shift element.

IPC 8 full level

**B23B 45/00** (2006.01); **B25F 5/00** (2006.01)

CPC (source: EP US)

**B25F 5/001** (2013.01 - EP US)

Cited by

EP2551063A1; CN103101032A; EP1886769A1; EP1886768A1; EP2316620A3; CN103358290A; EP2875906A1; CN104646724A; DE102009060929A1; US9108308B2; DE102015105333A1; DE102015105333B4; DE102015119987A1; DE102015119987B4; US9217492B2; US9636818B2; US9739366B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1364752 A2 20031126; EP 1364752 A3 20050713; EP 1364752 B1 20080220**; DE 10222824 A1 20031204; DE 50309184 D1 20080403; JP 2003340748 A 20031202; JP 4486790 B2 20100623; US 2004020669 A1 20040205; US 6860341 B2 20050301

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