Title (en)

Grinding power tool with quick coupling means.

Title (de)

Tragbare Schleifmaschine mit Schnellspanneinrichtung.

Title (fr)

Meuleuse portative avec dispositif d'accouplement rapide.

Publication

EP 0495181 B1 19940413 (DE)

Application

EP 91119926 A 19911122

Priority

- DE 4101113 A 19910116
- DE 4103501 A 19910206
- DE 9107823 U 19910626

Abstract (en)

[origin: US5157873A] A portable grinder (10) has a motor-driven drive shaft (15) and a quick-acting chucking device for a grinding tool (43), which comprises a spindle (20), coaxial with the drive shaft (15), which is braced against the drive shaft (15) by a spring (24) in the axial direction and can be displaced in the axial direction relative to the drive shaft (15) by means of a clamping lever (32). One external free end of the spindle (20) retains the grinding tool (43), which in a released position-with the free end of the spindle (20) extended and the spring (24) tensioned-can be removed from the free end, and in a tightened position-with the free end of the spindle (20) retracted and the spring (24) partly relaxed-is non-rotatably joined to the drive shaft. The free end is configured as a bayonet end (40) which extends though the grinding tool (43). An attachment collet (41) with a bayonet opening can be placed from outside onto the bayonet end (40).

IPC 1-7

B24B 45/00

IPC 8 full level

B24B 23/02 (2006.01); **B24B 45/00** (2006.01); **B24D 13/20** (2006.01)

CPC (source: EP US)

B24B 23/022 (2013.01 - EP US); **B24B 45/006** (2013.01 - EP US); **B24D 13/20** (2013.01 - EP US); Y10S 279/904 (2013.01 - EP US); Y10T 83/9379 (2015.04 - EP US); Y10T 83/9464 (2015.04 - EP US); Y10T 403/7007 (2015.01 - EP US)

Citation (examination)

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Cited by

FR2712834A1; DE19900994C2; CN102873670A; DE10061559A1; EP2017036A1; US7207873B2; US9067293B2; WO2005063439A1; WO2012126543A1; WO2013049482A3; US8187058B2; US7537065B2

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