

Title (en)
Power tool with quick coupling means

Title (de)
Elektrowerkzeug mit Schnellspanneinrichtung

Title (fr)
Outil électroportatif à dispositif de serrage rapide

Publication
EP 1180416 A3 20040107 (DE)

Application
EP 01119414 A 20010811

Priority
DE 10039739 A 20000816

Abstract (en)
[origin: EP1180416A2] The circular tool (30) is clamped loosely between a flange (26) on a motor-driven hollow spindle (24) and a clamping flange (28), by a packet of Belleville washers (42). The final pressure is applied by pivoting a lever (32) operated cam (56), which acts on a tappet (58). The lever is moved from the closed position (Zu), to the open position (Auf). In the unclamped position, if the motor is energized, the tappet rotates, releasing the friction between it and the cam. The lever then moves into the clamped position.

IPC 1-7
B24B 45/00; **B24B 23/02**

IPC 8 full level
B24B 23/02 (2006.01); **B24B 45/00** (2006.01)

CPC (source: EP US)
B24B 23/02 (2013.01 - EP US); **B24B 45/006** (2013.01 - EP US)

Citation (search report)

- [DA] EP 0152564 A2 19850828 - FEIN C & E
- [DA] EP 0650805 A1 19950503 - FEIN C & E [DE]
- [A] EP 0319813 A2 19890614 - FEIN C & E
- [A] DE 3523746 A1 19870108 - METABOWERKE KG [DE]

Cited by
CN109877680A; CZ308718B6; CN103347653A; CN106312954A; KR20190071710A; CN108274435A; CN111761480A; DE202011110131U1; EP2799188A4; EP2213419A1; US8317574B2; US11607772B2; US11717935B2; WO2013156306A1; WO2018072996A1; WO2012100894A1; WO2019015980A1; US9463547B2; US9486909B2; US9821430B2; EP2213416B1; EP2213416A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1180416 A2 20020220; **EP 1180416 A3 20040107**; **EP 1180416 B1 20050608**; AT E297292 T1 20050615; DE 10039739 A1 20020228; DE 50106436 D1 20050714; US 2002028644 A1 20020307; US 6569001 B2 20030527

DOCDB simple family (application)
EP 01119414 A 20010811; AT 01119414 T 20010811; DE 10039739 A 20000816; DE 50106436 T 20010811; US 93170601 A 20010816