

Title (en)
Tool for hand held machine-tools

Title (de)
Werkzeug für Handwerkzeugmaschinen

Title (fr)
Outil à machines-outils à main

Publication
EP 0955131 B1 20050209 (DE)

Application
EP 99810215 A 19990311

Priority
DE 19819631 A 19980504

Abstract (en)
[origin: EP0955131A1] The tool shaft (2) has in the clamping part a diameter (t) greater than 12 mm and at least one locking recess (4) and at least one rotary entrainment groove (6) has a depth (v,d) equal to or greater than 2.5 mm. The mouth edges (8,9) of at least one locking recess and at least one rotary entrainment groove on the circumference of the shaft include with each other opening angles equal to or greater than 50 degrees.

IPC 1-7
B25D 17/08

IPC 8 full level
B25F 1/02 (2006.01); **B25D 17/08** (2006.01)

CPC (source: EP US)
B25D 17/088 (2013.01 - EP US); **B25D 2217/0034** (2013.01 - EP US); **Y10T 279/17076** (2015.01 - EP US); **Y10T 408/907** (2015.01 - EP US)

Cited by
DE10241054A1; EP1602452A3

Designated contracting state (EPC)
CH DE DK FR GB LI SE

DOCDB simple family (publication)
EP 0955131 A1 19991110; EP 0955131 B1 20050209; CN 1096337 C 20021218; CN 1234320 A 19991110; DE 19819631 A1 19991111; DE 59911573 D1 20050317; DK 0955131 T3 20050613; JP H11333759 A 19991207; US 6174112 B1 20010116

DOCDB simple family (application)
EP 99810215 A 19990311; CN 99105099 A 19990420; DE 19819631 A 19980504; DE 59911573 T 19990311; DK 99810215 T 19990311; JP 12108499 A 19990428; US 30686899 A 19990507