

Title (en)
Hand tool

Title (de)
Handarbeitsgerät

Title (fr)
Outil à main

Publication
EP 1059140 A3 20020911 (DE)

Application
EP 00110771 A 20000520

Priority
DE 29909449 U 19990529

Abstract (en)
[origin: EP1059140A2] Manual tool (1) has a disc-shaped milling cutter (11) connected to a driving motor (8) via a driving flange (9). The milling cutter (11) is situated in a housing (12) attached to the tool (1) which has an opening (15) for the milling cutter (11) in the front end facing the metal chips (5) or the milling cutter (11) projects at least partially from the housing (12) in the region of the opening (15), and the housing (12) has an outlet (16) preferably facing the opening (15).

IPC 1-7
B23Q 11/00; **B23Q 9/00**; **B28D 1/18**; **B27B 5/32**; **B23C 5/26**

IPC 8 full level
B23Q 9/00 (2006.01); **B23Q 11/00** (2006.01); **B27B 5/08** (2006.01); **B27B 5/32** (2006.01); **B28D 1/04** (2006.01); **B28D 1/18** (2006.01); **C12N 5/10** (2006.01); **H04N 7/24** (2006.01)

CPC (source: EP)
B27B 5/08 (2013.01); **B27B 5/32** (2013.01); **B28D 1/045** (2013.01); **B28D 1/183** (2013.01)

Citation (search report)

- [XY] EP 0298221 A2 19890111 - WOLFF ROBERT
- [XA] EP 0756920 A1 19970205 - KLAPPERICH LEO [DE]
- [X] FR 1231379 A 19600928
- [X] DE 1121968 B 19620111 - ACKERMANN & SCHMITT K G
- [X] DE 3635159 A1 19880421 - BOSCH GMBH ROBERT [DE]
- [X] DE 498645 C 19300524 - GUSTAV FLEBBE
- [X] US 5566457 A 19961022 - BATSHARI CONSTANTIN [DE], et al
- [Y] US 2823713 A 19580218 - GOLDSMITH WILLIAM L
- [A] US 2688347 A 19540907 - SCHMIDT MENNO D
- [A] US 5829499 A 19981103 - LIAO JUEI-SENG [TW]
- [A] US 5031364 A 19910716 - BELANGER VICTOR [US]
- [A] DE 878269 C 19530601 - REICH MASCHF GMBH KARL
- [A] EP 0062253 A1 19821013 - TOMESANI SARL [IT]
- [A] US 4545121 A 19851008 - ARMBRUSTER GERHARD [DE], et al
- [A] FR 1122360 A 19560905 - VALBO STELLA
- [A] US 5657804 A 19970819 - LEE CHI P [TW]
- [A] EP 0365922 A2 19900502 - MAUDI SRL [IT]

Cited by
DE102005021212B4; EP1693170A1

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

DOCDB simple family (publication)
EP 1059140 A2 20001213; **EP 1059140 A3 20020911**; **EP 1059140 B1 20040310**; AT E261345 T1 20040315; DE 29909449 U1 20001005; DE 50005574 D1 20040415; ES 2216761 T3 20041101

DOCDB simple family (application)
EP 00110771 A 20000520; AT 00110771 T 20000520; DE 29909449 U 19990529; DE 50005574 T 20000520; ES 00110771 T 20000520