Title (en)
Drill tool

Title (de)
Bohrwerkzeug

Title (fr)
Outil de forage

Publication
EP 0933497 A3 20000712 (DE)

Application
EP 99100208 A 19990107

Priority
DE 29801700 U 19980202

Abstract (en)
[origin: EP0933497A2] This ground borer (10) has a shaft coaxial with the rotation axis (14), carrying drilling spiral(s) (13). At the pushing end (A), the cutter unit (16), extends radially from the axis. A novel feature is displacement of the radial sections of the cutter away from the axis. This gives rise to an initially-uncut central region (17). The cutters project forward (A), ahead of this central region. The shaft includes a surface (18) angled with respect to the axis. This pushes away the free-standing central core formed during drilling, urging it into the conveying region (20) of the drilling spiral(s).

IPC 1-7 (main, further and additional classification)
E21B 10/44; E21B 10/04

IPC 8 full level (invention and additional information)
E21B 10/04 (2006.01); **E21B 10/44** (2006.01)

CPC (invention and additional information)
E21B 10/44 (2013.01); **E21B 10/04** (2013.01)

Citation (search report)
- [A] DE 3422541 A1 19851219 - WESTFAELISCHE BERGGEWERKSCHAFT [DE]
- [A] US 1512841 A 19241021 - GAMBLE JOSEPH R
- [A] US 3095051 A 19630625 - IVAN ROBINSKY ELI, et al

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DE202015102848U1; DE102014111500A1

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
DE 29801700 U1 19980326; AT 247765 T 20030915; EP 0933497 A2 19990804; EP 0933497 A3 20000712; EP 0933497 B1 20030820; ES 2205605 T3 20040501