

Title (en)
Rock drill bit

Title (de)
Gesteinsbohrer

Title (fr)
Trépan de forage de roche

Publication
EP 0685629 B1 20020814 (DE)

Application
EP 95810187 A 19950320

Priority
DE 4419641 A 19940604

Abstract (en)
[origin: EP0685629A2] The bit has a clamping shaft (1), a drill shaft (2) with at least four parallel adjacently arranged swarf grooves (4-7). A drill head (3) of hard metal is connected with the drill shaft with four peripherally distributed discharge grooves (8-11) running in the longitudinal direction of the drill head. The discharge grooves have a differently sized internal cross-section, that of two first diametrically opposed discharge grooves (8,10) being larger than that of two second diametrically opposed discharge grooves (9,11). The discharge grooves have a differently sized radial distance from the centre of the drill head. <IMAGE>

IPC 1-7
E21B 10/44

IPC 8 full level
E21B 10/46 (2006.01); **B23B 51/00** (2006.01); **B23B 51/02** (2006.01); **B28D 1/14** (2006.01); **E21B 10/44** (2006.01); **E21B 10/58** (2006.01)

CPC (source: EP KR US)
B28D 1/14 (2013.01 - KR); **E21B 10/445** (2013.01 - EP US)

Cited by
DE102008022945A1; CN105108211A; EP1190797A1; EP3437773A1; EP2116321A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0685629 A2 19951206; EP 0685629 A3 19961218; EP 0685629 B1 20020814; AT E222321 T1 20020815; AU 2039595 A 19951214; AU 690659 B2 19980430; CA 2150164 A1 19951205; CA 2150164 C 20010227; CN 1116683 A 19960214; CZ 82895 A3 19951213; DE 4419641 A1 19951207; DE 59510316 D1 20020919; DK 0685629 T3 20021202; ES 2181759 T3 20030301; FI 108622 B 20020228; FI 952565 A0 19950526; FI 952565 A 19951205; HU 216598 B 19990728; HU 9501624 D0 19950728; HU T71760 A 19960129; JP H07329049 A 19951219; KR 960000438 A 19960125; PL 308889 A1 19951211; TW 284718 B 19960901; US 5553682 A 19960910

DOCDB simple family (application)
EP 95810187 A 19950320; AT 95810187 T 19950320; AU 2039595 A 19950530; CA 2150164 A 19950525; CN 95107179 A 19950602; CZ 82895 A 19950331; DE 4419641 A 19940604; DE 59510316 T 19950320; DK 95810187 T 19950320; ES 95810187 T 19950320; FI 952565 A 19950526; HU 9501624 A 19950602; JP 13803995 A 19950605; KR 19950009888 A 19950426; PL 30888995 A 19950602; TW 84104604 A 19950509; US 47484695 A 19950607